



**Chandler • Arizona**

## **2019 Airport Minutes**

### **Regular Meetings**

January 9, 2019

February 13, 2019

March 13, 2019

April 10, 2019 Special Meeting

April 10, 2019

May 8, 2019

June 12, 2019 Cancelled

July 10, 2019 Cancelled

August 14, 2019 (not available yet)

September 11, 2019

October 9, 2019 Including Study Session

November 13, 2019

December 11, 2019

These minutes are fully searchable within this year by using the “Find Feature”.

REGULAR MEETING MINUTES OF THE CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, Jan. 9, 2019 at 7:00 pm at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER

Meeting called to order at 7:01 p.m.

2. ROLL CALL

a. The following Commission Members answered Roll Call:

Chairman David Sperling  
Commissioner Dean Busk  
Vice-Chair Chasey Tezak  
Commissioner Andrew Carroll

Commissioner James Symonds  
Commissioner David Siegel  
Commissioner Sherri Koshiol

b. Acknowledgement of Airport Staff

CHAIRMAN SPERLING acknowledged the Airport staff and the following people were recognized:

Mr. Chris Andres, Airport Administrator  
Mr. Guy Lennon, Airport Management Analyst

Ms. Debbie Hodges, Sr. Administrative Assistant  
Mr. Joshua Wright, Asst. City Manager

Acknowledgement of 1 audience member

3. APPROVAL OF MINUTES:

a. Minutes of Oct.10, 2018

b. It was moved by COMMISSIONER CARROLL and seconded by COMMISSIONER SYMONDS that the Revised Meeting Minutes of Oct. 10, 2018 for the CHANDLER MUNICIPAL AIRPORT COMMISSION be APPROVED. MOTION CARRIED UNANIMOUSLY.

c. Minutes of Dec.12, 2018

It was moved by COMMISSIONER SIEGEL and seconded by COMMISSIONER SYMONDS that the Meeting Minutes of Dec.12, 2018 for the CHANDLER MUNICIPAL AIRPORT COMMISSION be APPROVED. MOTION CARRIED UNANIMOUSLY

4. CHAIRMAN'S BRIEFING

None

5. INFORMATION ITEMS

a. Discussion and possible input regarding the Monthly Noise Report

MR. GUY LENNON reported there were 63 noise concerns for December 2018 from 3 different households. One new caller made 60 contacts, 15 times were in one day. MR. LENNON noted that all calls were concerned about traffic pattern aircraft.

MR. CHRIS ANDRES added that general aviation aircraft have a more flexible lane of traffic unlike commercial airlines. He will be meeting with this resident regarding the resident's noise concerns.

b. Discussion and possible input regarding the Monthly Air Traffic Report

MR. LENNON presented a 13 month graph depicting various operations by month with a historic monthly average. There were 229,232 total operations for the past twelve month period, which is an increase from last year's total of 198,647 for a similar period. There were 18,295 operations for the month of December. CHD is currently ranked 49th busiest airport and 17th busiest general aviation airport in the US.

c. Discussion and possible input regarding the Monthly Construction Report

MR. LENNON reported the Terminal Apron Pavement project will start on January 21, 2019. Letters have been sent to tie down tenants to move the aircraft by January 17, 2019. We are currently at 100% occupancy since our current tenants are occupying two spaces, the spot they are vacating for the construction project and the spot they will occupy during the construction project.

CHAIRMAN SPERLING asked what the schedule would be for the project and MR.LENNON responded it would be completed around the beginning of April. CHAIRMAN SPERLING asked if we were out of tie downs. MR.LENNON answered that we were completely full and we had a wait list. He added that Stellar Airport is vacating all their tie downs for alternate storage. Those tenants are getting on our tie down wait list. MR. ANDRES added that if not for the Stellar Airport situation, we would have enough spaces, but as tenants leave, we are filling from the wait list.

6. ACTION AGENDA

None

7. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES

None

8. AIRPORT ADMINISTRATOR'S REPORT

MR. ANDRES wished everyone a happy new year. He listed the 2018 accomplishments for the airport which included the Open house, upgraded fuel system, starting of the apron rehabilitation project, replaced vehicle gate access system, crack sealed the SanTan ramp, completed infield drainage improvements, and hired a new operations supervisor. We started the year with a staff of five and again have a staff of five due to a retirement. In the last 10 months, with the loss of Doug Whitney and Marc Douglas, we lost 55 years of airport experience.

9. COMMISSION ANNOUNCEMENTS

COMMISSIONER SIEGEL had none.

COMMISSIONER CARROLL thanked the Commission for allowing him to miss a few meetings due to his business.

VICE-CHAIR TEZAK had none

COMMISSIONER KOSHIOL wished everyone a Happy New Year

COMMISSIONER BUSK had none.

COMMISSIONER SYMONDS had none.

CHAIRMAN SPERLING announced next Thursday is Aviation Day at the capital and he will be attending. He will also be moderating a session at the SWAAE conference in Monterey Bay. He wished everyone a happy new year.

9. CALENDAR

a. CHAIRMAN SPERLING stated the next Airport Commission meeting will be held on Wednesday, February 13, 2019 at 7:00 pm.

10. ADJOURNMENT

Noting no other comments from COMMISSIONERS, CHAIRMAN SPERLING adjourned the meeting at 7:17 p.m.

  
\_\_\_\_\_  
David Sperling  
Chairman

2/13/19  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Chris Andres  
Recording Secretary

2/13/19  
\_\_\_\_\_  
Date

1. CALL TO ORDER

Meeting called to order at 7:04 p.m.

2. ROLL CALL

a. The following Commission Members answered Roll Call:

Chairman David Sperling  
Commissioner Dean Busk  
Vice-Chair Chasey Tezak  
Commissioner Andrew Carroll

Commissioner David Siegel  
Commissioner Sherri Koshiol  
Commissioner James Symonds  
Council Member Rene Lopez

b. Acknowledgement of Airport Staff

CHAIRMAN SPERLING acknowledged the Airport staff and the following people were recognized:

Mr. Chris Andres, Airport Administrator  
Mr. Guy Lennon, Airport Management Analyst

Ms. Debbie Hodges, Sr. Administrative Assistant  
Mr. Joshua Wright, Asst. City Manager

Acknowledgement of 16 audience members

3. APPROVAL OF MINUTES:

a. Minutes of Jan. 9, 2019

b. It was moved by COMMISSIONER CARROLL and seconded by VICE-CHAIR TEZAK that Meeting Minutes of Jan. 9, 2019 for the CHANDLER MUNICIPAL AIRPORT COMMISSION be APPROVED. MOTION CARRIED UNANIMOUSLY.

4. CHAIRMAN'S BRIEFING

CHAIRMAN SPERLING attended Aviation Day at the Capitol. He announced that newly elected representative Arlando Teller is pushing to protect the aviation fund and replenish it from the last time the legislature swept the funds. He also attended the SWAAAE conference where he moderated a session. He welcomed COUNCILMEMBER LOPEZ to the Airport Commission. COUNCILMEMBER LOPEZ discussed the recent Council retreat where there were many conversations regarding the future of the Airport. He added that the Mayor and Council look forward to the Airport Master plan and better decisions for the future of the Airport.

5. INFORMATION ITEMS

a. Discussion and possible input regarding the Monthly Noise Report

MR. GUY LENNON reported there were 35 noise concerns for January 2019 from 7 different households. One caller made 20 contacts, 14 times were in one day. MR. LENNON noted that all calls were concerned about traffic pattern aircraft.

b. Discussion and possible input regarding the Monthly Air Traffic Report

MR. LENNON presented a 13 month graph depicting various operations by month with a historic monthly average. There were 232,965 total operations for the past twelve month period, which is an increase from last year's total of 198,174 for a similar period. There were 22,340 operations for the month of January. CHD is currently ranked 47th busiest airport and 16th busiest general aviation airport in the US.

c. Discussion and possible input regarding the Monthly Construction Report

MR. LENNON reported the Terminal Apron Pavement project is progressing with about half of the asphalt removed. While excavating, it was discovered the subgrade was extremely wet. There will be more excavation required because of the wet subgrade which will exceed our grant amount. The important aspects are going to be completed; water drainage, lighting and electrical. The remaining asphalt will be done at a later time. We are working with ADOT and FAA to secure funding for the remainder of the project. MR. ANDRES added about two thirds of the project will be completed. Boring samples were done a year and a half ago and were dry. Under the

pavement is a soil stabilization layer which trapped the water. We are working to complete as much as possible within the budget constraints.

CHAIRMAN SPERLING asked if the areas currently torn up be fixed. MR. ANDRES answered all the areas currently excavated will be paved. The section to the north will need to be remediated and soil stabilized before it can be paved. The contractor predicts another 100 days will be added to the project. COMMISSIONER KOSHIOL asked if the new design will have the same fabric. MR. ANDRES answered it will be similar but a newer product. COMMISSIONER BUSK asked how much longer for the project and MR. ANDRES answered it would be an additional 100 days. MR. LENNON added Taxiway Alpha will be re-opened.

## 6. ACTION AGENDA

- a. Recommendation for City Council to accept an FAA Grant for the Airport Master Plan Update.

It was moved by COMMISSIONER CARROLL and seconded by COMMISSIONER SIEGEL that the CHANDLER MUNICIPAL AIRPORT COMMISSION moves to approve forwarding a recommendation to the City Council for authorization to enter into an agreement with the Federal Aviation Administration to accept an Airport Improvement Program grant in an amount not to exceed \$600,000 for the Airport Master Plan Update Project. MOTION CARRIED UNANIMOUSLY.

COUNCIL MEMBER LOPEZ asked if there is any portion of the City pays. MR. ANDRES answered the funding is about 91% FAA, 5% ADOT and the rest from the City.

COMMISSIONER CARROLL asked what the typical time frame is for a master plan and MR. ANDRES replied 18 months.

- b. Recommendation for City Council to accept an ADOT Grant for the Airport Master Plan Update.

It was moved by COMMISSIONER KOSHIOL and seconded by VICE-CHAIR TEZAK that the CHANDLER MUNICIPAL AIRPORT COMMISSION moves to approve forwarding a recommendation to the City Council for authorization to enter into an agreement with the Arizona Department of Transportation to accept an Airport Development Program grant in an amount not to exceed \$26,808 for the Airport Master Plan Update Project. MOTION CARRIED UNANIMOUSLY.

## 7. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES

- a. Marvin Wessel-Taxi Procedures during construction, seizure and disabling of aircraft, gate access, parking in and near hangars, airport bathroom and addition access gate.

MR. WESSEL commented that there appears to be a safety issue related to the apron construction project with aircraft taxiing between the hangars and creating prop wash into open hangars. He stated there are no signs or directions given from the city regarding safety operations during this project. He would like to know what the directive is for taxiing on the ramp during construction and why there was no communication. He stated he spoke in December at the Airport Commission Meeting about the disabling and seizures of aircraft and was told someone would get back to him. He added no one contacted him for over a month so he asked to be heard at this meeting. CHAIRMAN SPERLING asked if he had been contacted and he replied he had not. He then stated he received an email with what he considered excuses. He claimed the airport staff were breaking several rules; Title 18 US Code, sub section 32 destruction of aircraft, title 14 CFR 13.7 seizure of aircraft, ARS 33-1022 garage aircraft, and sec. 4.14 of the airport rules & regulations tampering with aircraft. He asked who was authorizing the city employees to prop lock aircraft or lock city hangars. CHAIRMAN SPERLING asked if it was his aircraft he was talking about and he replied it was not. MR. WESSEL responded that other speakers were in the audience to speak about that topic. MR. WESSEL stated that the bathrooms in the airport terminal were not functional for days and weeks at a time. MR. WESSEL stated that his gate card access was turned off without notice. He stated that airport staff was aware of a hangar that he had up for sale and during the process of the selling that hangar his access pass was turned off without notice. MR. WESSEL asked what constitutes tailgating. MR. WESSEL stated that he should be able to escort or let people in the gate if he knew them, but was told it was tailgating. He went on to say that some airport employees allow others to escort people in while others say tailgating is not allowed. MR. WESSEL stated when the access gates are broke down there is no urgency to get them fixed. MR. WESSEL stated that he was told to move his trailer which was parked outside of his hangar. He went on to quote the rules of parking in and near hangars and stated he was not restricting and movement and yet was still being harassed about where he parked his trailer.

CHAIRMAN SPERLING interjected the issues seem to be clarity and communication. There are legal questions which will need to be researched. There should be a way to clarify some of the issues. MR. WESSEL added he had one more thing on his agenda. He stated there should be an access gate on the North apron to keep people from having to walk around to get out. CHAIRMAN SPERLING summed up some of the rules could be interpretation and MR. ANDRES will research the issues and communicate back to us.

CHAIRMAN SPERLING addressed MR. PAT MCGARRY who submitted a speaker card to come forward.

MR. PAT MCGARRY reiterated a safety concern about the added traffic in the north apron area. He stated the addition parking lot was built for the aircraft tenants in the north apron area and an additional pedestrian gate would be a safety enhancement for that area. MR. MCGARRY also stated it would be nice to have an additional port-a-pot in that area. CHAIRMAN SPERLING asked if the contractor had plans for safety and communication. MR. ANDRES answered the contractor does have a safety plan in place but they do not address the areas not under construction.

CHAIRMAN SPERLING addressed MR. ANIZ FILHO who submitted a speaker card to come forward.

MR. ANIZ FILHO stated a hangar was locked with his plane inside while he was "borrowing" the hangar to work on his aircraft. He would like more clarity for the rules of the airport.

CHAIRMAN SPERLING addressed MR. BRAD BENNETT who submitted a speaker card to come forward.

MR. BRAD BENNETT stated the Airport administration has subpar customer service. MR. BENNETT stated due to airport administration, the process to purchase a hangar took 65 days. MR. BENNETT further added that 36 of those days the folder containing the paperwork for the process to be completed sat on a desk in airport administration. While he waited for the conveyance process, he was told by staff he had to leave the hangar he was currently in since it did not belong to him. After staff checked in the office, he was then allowed to stay in the hangar. He found out his gate access card was turned off due to the "authorized user" terminating the lease. He then finds his aircraft prop locked in the hangar. He also claims the lock scratched his prop. He stated he had no agreement with the airport. He would like all administrative processes reviewed.

CHAIRMAN SPERLING asked if anyone else would like to speak and MR. MIKE BRAEGGER said he would.

MR. MIKE BRAEGGER stated anytime there is dust in the air it can cause valley fever. He claimed Airport staff told him he could not use a power washer to clean his hangar. It was suggested he use a blower to get the dust out. After reading the Airport rules & regulations he could not find anything regarding using a power washer.

CHAIRMAN SPERLING summed up the issues as being clarification, communication and expectations. Airport staff will work with everyone to help clarify and communicate back to the Commission and tenants.

MR. ANDRES stated there was a lot of content and some things he was just hearing about tonight. He added there are clearly gaps in communication and he will follow up after some research. He will get back to the Airport Commission at the next meeting. After this meeting, our tower manager will talk with anyone who wishes to stay and talk about the taxiing issues from the construction project.

COMMISSIONER CARROLL asked the Airport Administrator for a summation of findings over the next month and to make it a part of the Airport administrators report along with guidance and any directives given to help with the Airport situations.

COMMISSIONER SIEGEL asked if the airport goes through the City attorney's office for guidance on prop locks. MR. ANDRES replied he can make it part of the follow-up.

#### 8. AIRPORT ADMINISTRATOR'S REPORT

MR. ANDRES reported he was asked to join the Tucson Airport Authority to meet with ADOT regarding the airport pavement projects. There will be some changes in the process and it will be reported at the next meeting.

9. COMMISSION ANNOUNCEMENTS

COMMISSIONER SIEGEL had none.

COMMISSIONER CARROLL congratulated our former vice-mayor Jack Sellers who was elected to the Maricopa board of supervisors.

VICE-CHAIR TEZAK had none

COMMISSIONER KOSHIOL had none.

COMMISSIONER BUSK had none.

COMMISSIONER SYMONDS had none.

COUNCIL MEMBER LOPEZ thanked the tenants for coming out and encouraged them to come any time.

CHAIRMAN SPERLING welcomed COUNCIL MEMBER LOPEZ to the Airport Commission. He also encouraged he tenants to come to the Airport Commission with any airport issues.

9. CALENDAR

a. CHAIRMAN SPERLING stated the next Airport Commission meeting will be held on Wednesday March 13, 2019 at 7:00 pm.

10. ADJOURNMENT

Noting no other comments from COMMISSIONERS, CHAIRMAN SPERLING adjourned the meeting at 7:59 p.m.

  
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David Sperling  
Chairman

3/13/19  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Chris Andres  
Recording Secretary

3/13/19  
\_\_\_\_\_  
Date

REGULAR MEETING MINUTES OF THE CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, March 13, 2019, at 7:00 pm at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER

Meeting called to order at 7:00 p.m.

2. ROLL CALL

a. The following Commission Members answered Roll Call:

Chairman David Sperling  
Vice-Chair Chasey Tezak  
Commissioner Dean Busk

Commissioner David Siegel  
Commissioner Sherri Koshiol  
Commissioner Andrew Carroll  
Council Member Rene Lopez

b. Acknowledgement of Airport Staff

CHAIRMAN SPERLING acknowledged the Airport staff and the following people were recognized:

Mr. Chris Andres, Airport Administrator  
Mr. Guy Lennon, Airport Management Analyst

Mr. Joshua Wright, Asst. City Manager

Acknowledgement of 14 audience members

3. APPROVAL OF MINUTES:

a. Minutes of Feb 13, 2019

b. It was moved by COMMISSIONER CARROLL and seconded by VICE-CHAIR KOSHIOL that Meeting Minutes of Feb. 13, 2019 for the CHANDLER MUNICIPAL AIRPORT COMMISSION be APPROVED. MOTION CARRIED UNANIMOUSLY.

4. CHAIRMAN'S BRIEFING

CHAIRMAN SPERLING briefed on the follow-up to last month discussion regarding Mr. Marv Wessel's concerns about Airport Staff and Airport operations. CHAIRMAN SPERLING stated he met with MR. CHRIS ANDRES and discussed that item and MR. ANDRES will be covering this item later in the agenda.

5. INFORMATION ITEMS

a. Discussion and possible input regarding the Monthly Noise Report

MR. GUY LENNON reported there were 76 noise concerns for February 2019 from 15 different households. All but five of the households were concerned about aircraft in the traffic pattern airspace. The other five households were concerned about the increase in air traffic and two households made six contacts each. Nine of the households were first time contacts. One caller made 48 contacts. MR. LENNON noted that all calls were concerned about traffic pattern aircraft.

COUNCILMEMBER LOPEZ asked if there were any other metrics that shows how long residence have lived in their home, specifically whether the residents are recent additions or long-term residents. MR. LENNON responded that he does not current track that information. However, he is looking into expanding the data in this report to include a more micro account of the annual report. COUNCILMEMBER LOPEZ asked what the difference is between a noise call and traffic pattern activity. MR LENNON responded that those living under the traffic pattern airspace (TPA), as defined by the FAA, are considered traffic reports and anything outside of the TPA is considered either noise or low flying aircraft reports.

CHAIRMAN SPERLING asked if there's a regular contact with aircraft operators to remind them of any noise abatement procedures. MR. LENNON responded that he does reach out to pilots either on an individual basis or through a local forum called Arizona Flight Training Workgroup. Although we have not attended this workgroup in some time, we will look at attending this group a little more often to relay these messages.

b. Discussion and possible input regarding the Monthly Air Traffic Report

MR. LENNON presented a 13 month graph depicting various operations by month with a historic monthly average. There were 230,080 total operations for the past twelve month period, which is an increase from last

year's total of 198,258 for a similar period. There were 17,784 operations for the month of February. CHD is currently ranked 45th busiest airport and 15th busiest general aviation airport in the US.

c. Discussion and possible input regarding the Monthly Construction Report

MR. LENNON reported the Terminal Apron Pavement project has been delayed. While excavating, it was discovered the subgrade was extremely wet. There will be more excavation required because of the wet subgrade which will exceed our grant amount. The important aspects are going to be completed; water drainage, lighting and electrical. The remaining asphalt will be done at a later time. We are working with ADOT and FAA to secure funding for the remainder of the project. There has been an additional 95 days added to the project duration. MR. ANDRES added that the weather has also been a factor in the delay and this weather pattern is a new normal. However, the weather is changing to be more favorable and things are moving forward.

COUNCILMEMBER LOPEZ agreed that this is a new normal for our weather. COUNCILMEMBER LOPEZ went on to ask if there would be any cost savings to let the ground dry naturally over time. MR. ANDRES commented that it would increase costs in the wrong direction due to extended project duration.

d. Discussion and possible input regarding the Business and Operations Update

MR. ANDRES gave a follow-up to last month's Scheduled/Unscheduled Public Appearances/Call to the Public item. MR. ANDRES gave an overview of current staff levels as well as recent staff departures which has played a big role in staff efficiencies in the last twelve months.

MR. ANDRES stated that there were twelve issues presented at last month's meeting and each item will be addressed. MR. ANDRES indicated that he and CHAIRMAN SPERLING visited and went on an Airport tour to look at some of the items. The first item was an issue with power washing inside a hangar. That issue had been resolved the next and power washing is allowed provided safety practices are followed.

The next topic was regarding terminal restrooms being out of order. MR. ANDRES referenced that the terminal building is over twenty years old and the sewer system is lacking sufficient slope to the sewer main given the limited use of that system. After having a few visits from local plumbing contractors, the aging cast iron pipes are in need of repair and this will be addressed.

The next issue is the use of prop-locks by staff. It was determined that the use of prop-locks was a practice of prior Airport Operations staff for nonpayment of rent. MR ANDRES indicated that this practice has been stopped.

Regarding the duration for conveyance processing, MR. ANDRES described this process. Based on research of all transactions of the past year, it was determined that the transaction in question took nine business days and the average transaction for the past years was 10.9 business days. This period is from date of drop off to the date of pickup. A new process will be implemented where staff will contact the HOA for pick-up and this date and time will be noted.

There were issues with tenants having their gate cards turned off unexpectedly. This was due to some tenant have multiple aircraft in multiple locations and staff was not aware of this. Staff is working to resolve this issue. In the past, staff has worked to resolve any deactivation as quick as possible. Staff implemented a new process with the HOA management company where gate card access paperwork is included with each conveyance.

Regarding issues with vehicle gate conditions, currently the "Tower" access gate is inoperative in-part due to current construction activity. However, once the construction project is complete that gate will be returned to operating condition. In recent budget years the city has allowed a budget increase to renovate one automatic vehicle gate every year. These gates are on a five year replacement cycle and we are addressing on-going maintenance issues.

There is recent installation of No Parking signs in specific areas around the hangar environment to address foreign object debris (FOD). Vehicles parking on rocky areas tend to litter the taxi lanes and ramp area with gravel and raise the potential of damage to aircraft. These No Parking areas will help minimize this potential. Long term

storage is a little different because storage trailer and other equipment is subject to lease agreements. MR. Andres stressed that the Airport's focus is on the prevention of FOD.

A question was asked about "Tailgating" during last month's meeting. It is the Airport's policy to not allow or to tailgate behind any other tenant. However, there are times that certain vehicles have been allowed unescorted access to the Airport, for example, ambulance, taxi services to transient airport and others. If a tenant allows a vehicle to tailgate, that tenant is taking responsibility for that vehicle.

Another issue raised was tenant's being locked out of their hangars. It is in our lease agreements that tenants may be locked out of their hangars due to non-payment. One of the last things the Airport wants to do is releasing a tenant from their lease and one of the means of encouraging tenants to become current on their rent is to lockout access to their hangar.

During the recent construction project there have been concerns about taxi procedures on the ramp to access the runway. Airport Rules and Regulations states that no person shall taxi and aircraft until they has ascertained that there will be no danger of a collision. Air Traffic Control personnel are providing "progressive" taxi instructions when requested. Staff has been sending out construction updates concerning the ramp project with a reminder to operate not just your aircraft in a safe manner but your vehicle as well. MR. ANDRES provided an example for a diagram that has been sent out.

There was a recommendation to add a pedestrian gate at Curtiss and Ryan road to access the north apron area. It is Airport staff's opinion that the current access to the ramp is the safest means and to install a pedestrian gate at this time would be inherently unsafe. There was also a concern about the safety of pedestrian traffic in the north ramp area during night time hours. Staff determined that there is sufficient ambient light in that area. However, it was noted that dusk and dawn hours to pose a relative safety concern. Ultimately it is up to the pilot in command to maintain safety at all times.

6. ACTION AGENDA

a. None

7. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES

Mr. Marvin Wessel was recognized – Mr. Wessel commented that he had asked to have some items put on the agenda and it didn't happen. There appears to be no clear path to putting something on the agenda. There also appears to be a lot of unwritten rules and unanswered questions. Mr. Wessel commented that he submitted a proposal to do something to a hangar and he got a verbal about a year after he submitted that proposal. There's a lot of FOD in different areas of the ramp and the runway. Mr. Wessel is concerned about Airport security. He commented that there has been a number of issues with theft and tenants are being a little more aware of whose coming and going. There appears to be an Airport employee driving around the hangar area in their POV on the weekends, photographing inside of hangars. Mr. Wessel asked why a City employee is driving around in their POV and not in a City vehicle and is this employee trained to drive in a taxi lane.

Mr. Wessel continued with concerns about Fire training and the lack of the Fire Department doing any exercises or familiarity training with the Airport. Mr. Wessel commented that during the last response from the Fire Department that a Fire Fighter was injured putting out a fire and some training may have reduced that risk.

Mr. Wessel commented that tenants are not allowed to swap hangars and considered that bad customer service. He was also concerned about the fence screening in the north apron area needs some attention. He also mentioned that the City recently took possession of a large hangar and why the Airport hasn't considered a short term lease for that hangar.

Mr. Doug Combs was recognized – Mr. Combs commented that during the recent construction the taxi lane around the hangar area and people a parking in the taxi lane and there are no City staff here on the weekends to help with this situation. Mr. Combs suggested that there be a phone number provided during these times. Mr. Combs also commented on a better way to handle noise concerns. Lastly Mr. Combs suggest a sump pump for the terminal sewer Line.

Mr. Greg Hatch was recognized – Mr. Hatch commented that he has developed a large portion of the private hangar project and he appreciates MR. ANDRES proposal to increasing the turnaround time for conveyances. Mr. Hatch was also concerned that there is only one person allowed to deliver or retrieve any paperwork with regard to condo hangars. Mr. Hatch also commented that there are some concerns about customer service in Airport the front office.

Mr. Wessel commented that weeds are out of control on the Airport.

8. AIRPORT ADMINISTRATOR'S REPORT

MR. ANDRES introduced the new Airport Operations and Maintenance Technician, Mr. John Nyetrae. MR. ANDRES stated that, after a two week training period, Mr. Nyetrae's schedule will be Wednesdays through Saturdays.

9. COMMISSION ANNOUNCEMENTS

COMMISSIONER SIEGEL had none.  
COMMISSIONER CARROLL had none  
VICE-CHAIR TEZAK had none  
COMMISSIONER KOSHIOL had none.  
COMMISSIONER BUSK had none.  
COUNCIL MEMBER LOPEZ had none.

CHAIRMAN SPERLING comment that he would not be at the next meeting because he would be celebrating his anniversary with his wife. He also commented that the Phoenix Sky Harbor Airport will be conducting a public meeting.

9. CALENDAR

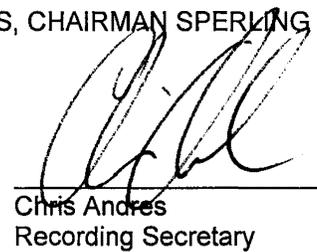
a. CHAIRMAN SPERLING stated the next Airport Commission meeting will be held on Wednesday April 10, 2019 at 7:00 pm.

10. ADJOURNMENT

Noting no other comments from COMMISSIONERS, CHAIRMAN SPERLING adjourned the meeting at 8:15 p.m.

  
\_\_\_\_\_  
David Sperling  
Chairman

4/19/19  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Chris Andres  
Recording Secretary

4/10/19  
\_\_\_\_\_  
Date

MINUTES OF THE SPECIAL MEETING OF THE CITY OF CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, April 10, 2019 at 6:30 pm at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER/ROLL CALL

Meeting called to order at 6:30 p.m.

The following Commission Members answered Roll Call:

Vice-Chair Chasey Tezak  
Commissioner David Siegel  
Commissioner Sherri Koshiol  
Commissioner Andrew Carroll  
Council Member Rene Lopez

2. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES

None

3. ACTION AGENDA

None

4. BRIEFING ITEMS

MR. CHRIS ANDRES introduced the briefing item and introduced MS. LAUREN SCHUMMER, SR. PLANNER.

a. Airport Conflict Evaluation- La Costera

MS. LAUREN SCHUMMER began with the background for property located on the Northeast corner of Arizona Ave and Appleby Road. The area site is 19.01 acres and the request is for an area plan amendment and a re-zoning. They would like to amend the zoning currently as business/office/commercial to low-med density level residential. The Planned Area Development (PAD) is currently for church uses. They would like to rezone from church uses to (PAD) single family residential. The subdivision will have 137 dwelling units with a density of 7.2 units per acre. The applicant has made administrative corrective actions; disclosures would be signed by every sale, Name change to La Costera Landing, and additional signage of aircraft overflights.

VICE-CHAIR TEZAK asked how the disclosures are signed on resale and how it is enforced. MS. SCHUMMER responded that every sale after the original will have to sign the form through the CCR's and the title report. COUNCIL MEMBER LOPEZ added if buyer not informed, they can nullify the sale.

COMMISSIONER CARROLL asked if there is any focus from the last two communities with additional noise concerns and MR. LENNON responded there had been an increase. MR. ANDRES added on the Exhibit A vicinity map the 55 Noise contour is to the east and Federal Noise standard is between 55-65. COMMISSIONER CARROLL asked if we knew what the typical flight altitude is in this situation. MR. LENNON responded it would vary since they are in and around the traffic pattern airspace. MS. SCHUMMER pointed out the star on the maps of exhibit D & E should be shifted to the other side of the train tracks.

COMMISSIONER SIEGEL asked if the disclosure forms have been successful. MR. LENNON answered they do work and most people acknowledge they signed the form but did not know how busy we were.

COMMISSIONER CARROLL asked if any other noise abatements have been discussed. MS. SCHUMMER responded there could be more physical corrections possible with the applicant.

5. COMMISSION COMMENTS/ANNOUNCEMENTS

None

6. CALENDAR

a. Next regular meeting to follow this meeting at 7 PM

7. INFORMATION ITEMS

None

8. ADJOURNMENT

Noting no other comments from COMMISSIONERS, VICE-CHAIR TEZAK adjourned the meeting at 6:50 PM

  
\_\_\_\_\_  
David Sperling  
Chairman

5/8/19  
date

  
\_\_\_\_\_  
Chris Andres  
Recording Secretary

5/8/19  
date

REGULAR MEETING MINUTES OF THE CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, April 10, 2019 at 7:00 pm at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER

Meeting called to order at 7:00 p.m.

2. ROLL CALL

a. The following Commission Members answered Roll Call:

Vice-Chair Chasey Tezak  
Commissioner James Symonds  
Commissioner David Siegel

Commissioner Sherri Koshiol  
Commissioner Andrew Carroll  
Councilmember Rene Lopez

b. Acknowledgement of Airport Staff

VICE CHAIR TEZAK acknowledged the Airport staff and the following people were recognized:

Mr. Chris Andres, Airport Administrator  
Mr. Guy Lennon, Airport Management Analyst  
Mr. David De La Torre, Planning Manager

Mr. Joshua Wright, Asst. City Manager  
Ms. Lauren Schumann, Sr. Planner  
Ms. Debbie Hodges, Sr. Administrative Asst.

Acknowledgement of 6 audience members

3. APPROVAL OF MINUTES:

a. Minutes of Mar. 13 2019

b. It was moved by COMMISSIONER SIEGEL and seconded by COMMISSIONER CARROLL that Meeting Minutes of Mar. 13, 2019 for the CHANDLER MUNICIPAL AIRPORT COMMISSION be APPROVED. MOTION CARRIED UNANIMOUSLY.

4. CHAIRMAN'S BRIEFING

None.

5. INFORMATION ITEMS

a. Discussion and possible input regarding the Monthly Noise Report

MR. GUY LENNON reported there were 28 noise concerns for March 2019 from five different households. All but two of the households were concerned about aircraft in the traffic pattern airspace. The other two households were concerned about the increase in air traffic. One household made 303 contacts. 19 of the households were first time contacts. There was also a large helicopter flying from Phoenix-Mesa-Gateway crossing our airspace and they were loud. MR. LENNON noted that all calls were concerned about traffic pattern aircraft.

COUNCILMEMBER LOPEZ asked if the caller with 303 calls was regarding helicopters. MR. LENNON responded it was all fixed wing. MR. CHRIS ANDRES added he reached out to the company of the large helicopter flying from Phoenix-Mesa-Gateway and they agreed to travel further south as it crosses our airspace. They will also be ending the flights no later than April 22nd.

COMMISSIONER KOSHIOL asked if there's recording of who the homeowner is versus a renter. MR. LENNON responded we do not have that information. MR. ANDRES added the weather is nicer and people have windows open much more at this time of year.

b. Discussion and possible input regarding the Monthly Air Traffic Report

MR. LENNON presented a 13 month graph depicting various operations by month with a historic monthly average. There were 229,090 total operations for the past twelve month period, which is an increase from last year's total of 196,991 for a similar period. There were 20,764 operations for the month of March. CHD is currently ranked 47th busiest airport and 16th busiest general aviation airport in the US.

c. Discussion and possible input regarding the Monthly Construction Report

MR. ANDRES reported the Terminal Apron Pavement Project has moved to the next phase and Taxiway "A" is now open relieving some of the traffic issues. The contractor made progress with opening up the subgrade for the ground to dry out and we are on schedule to be complete in July.

6. ACTION AGENDA

a. Airport Conflict Evaluation – La Costera subdivision

MS. LAUREN SCHUMANN, SR. PLANNER introduced this item stating this is an Airport Conflict Evaluation for La Costera which is located at the northeast corner Arizona Avenue and Appleby Road. The owners request a rezoning from commercial to residential. The project is a 137 lot single-family residential subdivision on a 19.0 acre site.

MR. REED PORTER, APPLICANT explained the corrective actions his company is prepared to take; New name La Costera Landing, permanent monuments and signs with name, signage showing airport overflight in park area, disclosure forms, signage in parking lot and model offices. The yards are very small lots with no room for pools and no lawns, just pavers. They are like patio home yards. They are insulated with dense spray foam. COMMISSIONER KOSHIOL asked what kind of windows they use and MR. PORTER answered they use dual pane vinyl. VICE-CHAIR CHASEY asked how many bedrooms they have and how many residents will that add to the existing area. MR. PORTER answered the homes are 2,000 to 2,400 square feet adding an additional 369 residents. COUNCILMEMBER LOPEZ asked if the previous sub divisions were also a conflict and MS. SCHUMANN responded they were approved by council, but a conflict by the Commission.

It was moved by COMMISSIONER CARROLL and seconded by COMMISSIONER SIEGEL that the CHANDLER MUNICIPAL AIRPORT COMMISSION present an Airport Conflict Evaluation Report to the Zoning Administrator and City Council with a finding of "conflict with airport uses exists". MOTION CARRIED UNANIMOUSLY.

7. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES

Local citizen Sandra Ruegge talked about her time living at Sun Bird. She stated she was never made aware of the airport or airport noise. She states the helicopters scoot across the golf course and make so much noise her windows and house shake. Husband Duane Ruegge, also stated the helicopters scoot across the golf course drowning out the volume of their television.

Local citizen Lisa discussed the helicopters flying early in the morning. She stated the airspace was being abused by the pilots.

VICE-CHAIR TEZAK assured the citizens one of the Airport staff would follow up with them on the concerns.

8. AIRPORT ADMINISTRATOR'S REPORT

MR. ANDRES thanked DR. CARROLL, as this is his last meeting. He wished him well on his future endeavors. He also thanked COMMISSION BUSK, this is his last meeting. Both will be receiving a recognition plaque soon. Also recognition to MR. GUY LENNON, who is retiring from Chandler and moving to Vancouver, Washington where he will be the new airport manager at Pearson Field. There is also a new COMMISSIONER starting May 2019, her name is Alicia Kruse. Next month is the election of new officers.

9. COMMISSION ANNOUNCEMENTS

COMMISSIONER SIEGEL will be out of state for 6-7 weeks

COMMISSIONER CARROLL thanked everyone for having him on the Airport Commission. He thanked staff and Commission. He will be moving forward to run for the Board of the American Academy of Family Physicians.

VICE-CHAIR TEZAK thanked COMMISSIONER CARROLL, COMMISSIONER BUSK and MR. GUY LENNON for all they have done for the City.

COMMISSIONER KOSHIOL thanked DR. CARROLL, COMMISSIONER BUSK and wished MR.GUY LENNON the best in his new adventure.

COMMISSIONER SYMONDS wished luck to COMMISSIONER CARROLL AND MR. GUY LENNON,  
COUNCIL MEMBER LOPEZ had none.

9. CALENDAR

a. VICE-CHAIR TEZAK stated the next Airport Commission meeting will be held on Wednesday May 8, 2019 at 7:00 pm.

10. ADJOURNMENT

Noting no other comments from COMMISSIONERS, VICE-CHAIR TEZAK adjourned the meeting at 7:40 PM

 5/8/19  
\_\_\_\_\_  
David Sperling                      Date  
Chairman

 5/8/19  
\_\_\_\_\_  
Chris Andres                      Date  
Recording Secretary

REGULAR MEETING MINUTES OF THE CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, May 8, 2019 at 6:30 pm at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER

CHAIRMAN DAVID SPERLING called the meeting to order at 6:30 p.m., had the Airport staff introduce themselves, and then acknowledged the others present and the audience.

2. ROLL CALL

A. The following Commission Members answered Roll Call:

Chairman David Sperling  
Commissioner David Siegel  
Commissioner Sherri Koshiol  
Commissioner James Symonds  
Commissioner Alicia Kruse

B. Others Present:

Mr. Chris Andres, Airport Administrator  
Ms. Danae Presler, Executive Management Assistant  
Joshua Wright, City Manager's Office  
Ann Patterson-James, Digital Content Strategist  
Stephanie Romero, Public Info Officer

3. ELECTION OF OFFICERS

CHAIRMAN SPERLING introduced the first item as the election of a Chair and Vice Chair. CHAIRMAN SPERLING asked Commissioners if they would entertain a motion for CHAIRMAN SPERLING to continue as Chair. It was moved by COMMISSIONER SYMONDS and seconded by COMMISSIONER KRUSE for CHAIRMAN SPERLING to officially continue as Chair. MOTION CARRIED UNANIMOUSLY.

CHAIRMAN SPERLING asked Commissioners if they would entertain a motion for COMMISSIONER SYMONDS to be elected as Vice Chair. It was moved by COMMISSIONER KRUSE and seconded by COMMISSIONER SIEGEL for COMMISSIONER SYMONDS to be officially elected as Vice Chair. MOTION CARRIED UNANIMOUSLY.

4. APPROVAL OF MINUTES FROM APRIL 10, 2019

It was moved by COMMISSIONER KOSHIOL and seconded by COMMISSIONER SYMONDS to be approved as presented with a change to section 5A correcting the name of the CHAIRMAN to SPERLING from KOSHIOL. MOTION CARRIED UNANIMOUSLY.

5. INFORMATION ITEMS :

A. Discussion and possible input regarding the Monthly Noise Report

MR ANDRES reported 163 noise complaints for April 2019 from ten households concerns; most about normal traffic patterns for aircraft and no unusual operations related complaints. 151 of those contacts were made by one household. MR ANDRES stated he has reached out directly to invite the individual to meet with staff to discuss the issue. CHAIRMAN SPERLING asked if staff had received a response. MR ANDRES advised he had not but the individual had been in touch with MR. GUY LENNON and MR ANDRES expects a smooth transition in continuing that relationship. MR ANDRES added that Salt River Project has been ferrying staff from Phoenix Mesa Gateway to their Gila River Bend Power Station and flying at 5:00 am, 6:00 am, 5:00 pm, and 6:00 pm. SRP has a Bell 212 helicopter, which is a Vietnam era Huey derivative that is very loud no matter how high it flies. Since SRP completed their work, it has been fairly quiet.

MR ANDRES stated that noise complaints have been dropping in the last couple of weeks in conjunction with increasing temperatures. MR ANDRES stated that he expects the numbers of complaints to dip as air conditioning usage increases as those units are typically louder than any ambient aircraft noise. CHAIRMAN SPERLING asked if there were any other strategies outside inviting the individual to visit with staff. MR ANDRES responded that he had a lengthy discussion with the individual. The individual advised MR ANDRES that he will be reaching out to the Federal

Aviation Administration for a resolution. MR ANDRES stated he advised of what the FAA can and cannot do. MR ANDRES will continue to provide support and advice.

COMMISSIONER ALICIA KRUSE asked what methods of communications were used for the 151 complaints; emails or calls. MR ANDRES replied that it is a combination of both. CHAIRMAN SPERLING asked if each one is an individual contact. MR ANDRES replied that it is. COMMISSIONER KRUSE asked if MR ANDRES' replies back count as contacts. MR ANDRES responded that it is customary for airports, to count households as a separate figure from the number of complaints. This is done to reflect the amount of individual households impacted and to ensure that the number of households impacted is not skewed by individuals using methods like auto emails to artificially raise the number of complaints. MR ANDRES clarified with an example that if he was a member of a household that complains once a day, the result could be thirty complaints in a monthly period, but only one individual was impacted during the month.

CHAIRMAN SPERLING asked MR ANDRES to confirm for the purpose of clarification, if that meant the initial email contact is counted but the replies and communications that follow are not counted. MR ANDRES confirmed that is correct. CHAIRMAN SPERLING asked if a new complaint with a different date and time is counted. MR ANDRES confirmed that any new noise events are counted.

B. Discussion and possible input regarding the Monthly Air Traffic Report

MR ANDRES advised he made some changes to the Air Traffic Report after feedback from the Commission. MR ANDRES stated that prior reports included historic data regarding peak months that was interesting, but not especially relevant. MR ANDRES stated that new reports will contain the national 12 month rankings for the current month and one year ago as it is more relevant data. MR ANDRES added that Chandler is still a busy airport having dipped a little below twenty thousand operations for April. From a ranking standpoint, they are the 49th busiest airport in the United States and the 16th busiest general aviation airport in the US.

MR ANDRES stated Chandler is not the busiest in the Valley. Deer Valley is number one in the US for take offs and landings. Chandler is consistently in the fourth position, occasionally in third. MR ANDRES added that operations is one way that airports keep score so if there is a dip in operations, there is no cause for panic. Chandler is predominantly a flight training airport and, about one year ago, Chandler had three lean months that skewed the rankings but operations roared back with "interest". CHAIRMAN SPERLING responded that he agreed but the interest has stopped paying off, which could be seen when you compared April of 2019 with April of 2018, adding that every month for the past year had exceeded that month in the previous year.

MR ANDRES stated that the air traffic control manager is on duty in Alaska but will be returning in mid-June. He stated that the Airport expects operations to settle back to a normal range soon because the flight schools tend to be fairly consistent now. MR ANDRES stated he doesn't expect too many more spikes but expects to have a month similar to January.

C. Discussion and possible input regarding the Monthly Construction Report

MR ANDRES stated that they paved the first half of the Terminal Apron project area with striping and installing light poles. The contractor experienced issues with subgrade saturation but the contractor is now working on the second portion of the apron.. Work is expected to be completed by mid-July and tenants will be moved back after the project is finished.

MR ANDRES stated that the City's Municipal Utilities group will be doing an assessment of the sewer manholes that run along Aviation Boulevard, a portion of which run from the boulevard and are along the taxi lane right in front of the condo hangars. The manholes are in various conditions and most need to be rehabbed. MR ANDRES stated that once the apron construction is complete, the Municipal Utilities group will return to commence the work on the manholes. The repairs need to be done as it will benefit our tenants as there have also been complaints of occasional smells. MR ANDRES added that he reached out to the Condo Association to give them sufficient notice and make arrangements to relocate planes temporarily to avoid an inconvenience to tenants as some of the manholes are right in the middle of the taxi lane. MR ANDRES stated they estimate about four days of work for each manhole.

CHAIRMAN SPERLING asked if half the pavement is done for the apron project, will the striping and lighting be done for half now or will it all be done together once the entire pavement has been completed. MR ANDRES replied that he has not gone over those details with the contractor as of yet. CHAIRMAN SPERLING asked if it all needs to be done to become operational for the purpose of using the taxi lanes. MR ANDRES replied that it generally does but he will

confirm once he meets with the contractors on Monday. MR ANDRES advised the way it normally works is they get all the civil work done and then install the poles and connect everything at the end as they still need to do new pole placement for the new area.

CHAIRMAN SPERLING advised he was asking to see if installing half now would alleviate some of the operational problems with the taxi lane that have been brought to their attention in the past. MR ANDRES responded that those problems have been eliminated with the opening of Taxiway Alpha and he received positive feedback from six pilots who are very happy about Alpha being opened. MR ANDRES added that traffic through the hangar complex has been significantly reduced with the opening of the taxiway.

D. Presentation and Discussion regarding City Branding and the new Airport Logo

MRS. ANN PATTERSON-JAMES presented the process and results of the new Citywide branding. MRS. PATTERSON-JAMES stated that the City needed to modernize their brand standards to remain current and to ensure a consistent, city-wide theme. MRS PATTERSON-JAMES presented the new Chandler logo with the new color palette, typography, iconography, lexicon, and the use of photo-centric visuals instead of clip art and stock photos. All city departments will be required to adhere to the new standards.

MRS PATTERSON-JAMES presented the updated logo for the Chandler Municipal Airport.

MR. ANDRES mentioned that MRS. DEBBIE HODGES developed the initial concepts for a new Airport logo and her logo was presented to the Communications team which resulted in the final version. MR ANDRES stated that, although Debbie is not in attendance, she is responsible for leading the charge to update our logo.. MR ANDRES added that this logo is more modern and comparable with our competition with the stylized aircraft, upward swoop to the right, the backdrop of the mountains, and the three letter airport designation.

MRS PATTERSON-JAMES added that, to round out their city brand the main City logo, and the new logos from the Library, Airport, Tourism, and the Center for the Arts will be complementary and will be seen on different marketing materials going forward. COMMISSIONER KRUSE asked if they chose the colors. MS JAMES replied that the colors were existing choices and the City had significant equity in the color palette. MR ANDRES added that the Airport will be rolling out the logo in different forms. The Airport will not be able to change letterhead or business cards, but the logo will be seen in airport communications like notices and presentations. CHAIRMAN SPERLING asked if they can't change the letterheads and business cards. MR ANDRES replied that they will be continuing with the use of the City of Chandler "C" business logo as it is consistent with the style guide.

CHAIRMAN SPERLING advised that he really liked the new logo with the mountains being the same as the ones seen at the airport and said he thinks it looks great. CHAIRMAN SPERLING thanked MS PATTERSON-JAMES and STEPHANIE ROMERO.

6. ACTION AGENDA

CHAIRMAN SPERLING advised there is no action agenda.

7. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES/CALL TO THE PUBLIC

CHAIRMAN SPERLING noted that there were no public appearances and noted that there were no other members of the public present, except for City staff.

8. AIRPORT ADMINISTRATOR'S REPORT

MR ANDRES stated that that he would be out of the country next month and there would be no June Commission meeting. MR ANDRES advised he would move to fill Guy Lennon's position as soon as possible adding that they had a full staff of six for a while before he left and plans are in motion to get back to full staffing levels.

9. COMMISSION ANNOUNCEMENTS

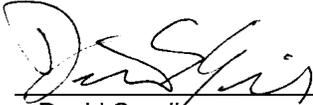
CHAIRMAN SPERLING welcomed new commissioner, COMMISSIONER ALICIA KRUSE, and thanked her for volunteering and stated that the Commission looks forward to working with her.

10. CALENDAR

The next regular meeting to follow this meeting is scheduled for Wednesday, July 10<sup>th</sup>, 2019, at 6:30 pm.

11. ADJOURNMENT

CHAIRMAN SPERLING moved to adjourn. Noting no other comments from COMMISSIONERS, CHAIRMAN SPERLING adjourned the meeting at 7:00 p.m.

 8/14/19  
\_\_\_\_\_  
David Sperling  
Chairman

 8/14/19  
\_\_\_\_\_  
Chris Andres  
Recording Secretary

REGULAR MEETING MINUTES OF THE CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, September 11, 2019 at 6:30 p.m. at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER/ROLL CALL

Meeting called to order at 6:30 p.m. by CHAIRMAN DAVID SPERLING. The following Commission Members answered roll call:

Chairman David Sperling  
Vice Chair Chasey Tezak  
Commissioner David Siegel  
Commissioner Sherri Koshiol  
Commissioner James Symonds  
Commissioner Alicia Kruse  
Commissioner Christopher Hawley  
Councilmember René Lopez, Ex-Officio

Airport Staff in Attendance:

Chris Andres, Airport Administrator  
Ryan Reeves, Airport Business Coordinator

Also in Attendance:

Joshua Wright, City Manager's Office  
Cori Garcia, Mayor and Council Office  
Erica Barba, City Clerk's Office  
Heather Figueroa, City Clerk's Office (Acting Recording Secretary)  
Stephanie Romero, Communications and Public Affairs  
Steve Smith, Chandler Air Service  
Tom Klimek, Armstrong Consulting

2. APPROVAL OF MINUTES

A. Minutes of Wednesday, August 8, 2019

COMMISSIONER SPERLING noted the correct date of the minutes to be approved is Wednesday, August 14, 2019.

It was moved by COMMISSIONER KOSHIOU and seconded by COMMISSIONER KRUSE that the minutes of August 14, 2019 for the CHANDLER MUNICIPAL AIRPORT COMMISSION be approved. MOTION CARRIED UNANIMOUSLY.

3. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES/CALL TO THE PUBLIC

A. CHAIRMAN SPERLING stated there is one Scheduled Public Appearance. He welcomed Mayor Kevin Hartke.

MAYOR HARTKE shared his appreciation to the Airport Commissioners for their service and involvement. He announced that he is visiting all the Boards and Commissions.

MAYOR HARTKE mentioned Council began meeting with staff last year and held a retreat to discuss feedback the City has received from residents, including what have been some challenges and what directives need to be set for the next five years. He stated the City Manager is developing initiatives based on the directives provided by Council. He also stated that Council and staff are focused on what Chandler is about and the direction it's headed.

MAYOR HARTKE shared the City just completed redesigning the City's logo and creating a new brand. (Note: The Strategic Framework Plan was distributed to the Airport Commission.) He discussed the five directives being focused on: 1) Infrastructure and Redevelopment - the City is 80% built out and protecting areas such as the job corridors are important; 2) Innovation and Technology - looking at new technology that affects the City's roads, infrastructure and use of autonomous vehicles, including looking at solutions to problems that we may not be asking the questions to; 3) Neighborhoods; 4) Quality of Living - Providing a safe community through Police services, park improvements, including six new multi-use fields at Chuparosa and Tumbleweed parks and ensuring Chandler has the amenities our community expects; 5) Mobility - looking at transportation needs that affects how residents are getting around, airport services, streets and connectivity to the rest of the valley.

MAYOR HARTKE discussed the importance of the Airport Commission focusing on the Airport Master Plan. He said their role is important and asked them to share their thoughts about growth opportunities for the airport, and being knowledgeable in preparation to speak to the community.

MAYOR HARTKE stated he values the work of the Board and Commission members and is in the process of reviewing the purpose of each board and commission. He mentioned he had discussion with the Mayor's Youth Commission, and expressed that he would like them to be ambassadors to all high schools, sharing what the City is working on, the importance of the census and the importance of being involved. He also mentioned that his goals are to speak at every Chandler high school civics class to discuss local government and engagement within the community.

MAYOR HARTKE shared how it's important to recognize those who serve and will be hosting a volunteer appreciation event every year at his State of the City Address. He stated the event will be held one hour beforehand at the Chandler Center for the Arts. He then asked if anyone had any questions.

COMMISSIONER HAWLEY thanked Mayor Hartke for appointing him and asked what he felt were some challenges in expanding the runway. MAYOR HARTKE responded that he felt lack of community support and housing encroachment. He stated critical thinking and being a voice of the airport is of value.

COUNCILMEMBER LOPEZ responded that in conjunction to what Mayor Hartke said, there has been a lot of inaccurate information shared. He stated that the Airport Master Plan will assist in helping the airport grow in the future. He also stated that it will be important for representatives of the airport to be educated and prepared to reach out to community members and homeowners associations.

CHAIRMAN SPERLING thanked Mayor Hartke for attending and vocalizing his support for the boards and staff.

CHAIRMAN SPERLING inquired if there were any unscheduled public appearances. There were none.

#### 4. ACTION AGENDA

- A. MR. ANDRES presented the 2020 Airport Regular Commission meeting schedule. He stated based on the by-laws, the meetings take place the second Wednesday of the month, but due to the observed Veterans' Day holiday on November 11, a modification was made to select November 18.

It was moved by COMMISSIONER KRUSE and seconded by COMMISSIONER TEZAK that the Calendar Year (CY) 2020 CHANDLER MUNICIPAL AIRPORT COMMISSION Regular Meeting Schedule be approved as presented. MOTION CARRIED UNANIMOUSLY.

#### 5. BRIEFING ITEMS

- A. *Discussion and possible input regarding the Monthly Noise Report*

MR. REEVES stated there were four complaints out of three households: One did not provide a return address from a letter, one received through email with no response and no location on that household. The other two were received from one household regarding runway 4R22L. He stated one complaint is directly in the traffic pattern.

- B. *Discussion and possible input regarding the Monthly Operations Report*

MR. REEVES stated Chandler Municipal Airport General Aviation ranking went from 18 to 16, with about 16,400 operations last month and the national ranking went from 51 to 48. He expressed it's believed to be related to the heat of the summer and expect as the rest of the country plunges into winter those rankings will come back up. Most traffic is flight training and general aviation.

- C. *Discussion and possible input regarding the Monthly Construction Report*

MR. REEVES shared that the Terminal Apron Pavement project was substantially completed and reported to the FAA on August 14, 2019. The punch list of items remaining was provided to the FAA on Sept. 4, 2019, and the letter of completion was submitted to the FAA this afternoon.

MR. REEVES shared there is no new update on the Sewer Assessment. The Sewer Assessment Condition was completed by the Municipal Utilities Department on July 22, 2019, and is still on track as reported previously.

MR. REEVES stated staff is very excited about the Runway 4R-22L Pavement Maintenance project and the first meeting to kick off the planning process will take place in two weeks. He also stated the overlay is being funded by the Arizona Department of Transportation (ADOT). MR. ANDRES mentioned one correction that the pavement maintenance is local funding, but ADOT provided preliminary news that we may be receiving a grant.

COMMISSIONER HAWLEY asked what the percentage of the funding being partially provided by ADOT. MR. ANDRES replied that 90 percent with a 10 percent local match. MR. ANDRES also mentioned that, for FAA projects, 91.6% is funded by FAA, 4.7% by ADOT and the remaining 4.47% by local contributions.

CHAIRMAN SPERLING inquired which taxi way was included. MR. ANDRES replied the southern taxiway. CHAIRMAN SPERLING asked if it was part of the Pavement Preservation Program. MR. ANDRES replied that it is from separate funding. He stated that if ADOT funded 90%, the City would fund 10%. MR. ANDRES stated that, each year, the Airport typically has one federally-funded project and one state-funded project. He mentioned the most projects the Airport experienced in one calendar year was three and were completed on time and within budget.

COUNCILMEMBER LOPEZ inquired if funding tries to limit or prevent massive disruption on the airport across the full year. He also inquired that if we are seen as one the forefront with proper budgeting and being fiscally responsible. COUNCILMEMBER LOPEZ mentioned there are airports out there that just don't have the money to do some of these projects. MR. ANDRES confirmed and stated it is difficult for some smaller, outlying airports to provide the local match. He also stated Chandler is a busy airport and is a great steward of public advancement. MR. ANDRES mentioned because of our great track record, we are one of the airports the agency will call asking if there are projects coming up needing funding.

CHAIRMAN SPERLING followed up to Councilmember Lopez's question asking if there were a limited number of projects being done over time. He stated FAA updates its national plans across the United States and will identify \$35 billion worth of infrastructure to help fund, and over that course of time \$3.5 billion are granted service issued, with half of the improvements needed are actually funded through the Airport Improvement Program (AIP).

*D. Presentation, discussion and possible input regarding the Airport Master Plan Update*

MR. ANDRES stated it's very important to have an updated Airport Master Plan and provided an overview of the process. He mentioned it will be a key guide document that will set the standards for the airport for the next ten to twenty years. He also mentioned a lot of effort is required and includes needs from ground up to high altitudes. He referred to aerials of the airport property showing the area in March 2013, then with new growth in March 2019. MR. ANDRES stated the immediate surrounding areas are changing, along with changes in technology and aviation.

MR. ANDRES discussed Airport Master Plan needs updating as the Chandler Municipal Airport is a capital intensive, mission critical transportation facility. He stated it is a port for air traffic and assures we have a good strategy and methodology for meeting the demands of the tenants and the community. MR. ANDRES mentioned the last master plan was completed ten years ago based on 2007 data, before the Great Recession. Additionally, FAA design standards change over time.

MR. ANDRES stated in 2016 the interim Airport Layout Plan was updated and an Economic Impact Study was completed. He mentioned that this is part of the Strategic Framework, focusing on modernizing and updating facilities and business aviation. MR. ANDRES said this plan will evaluate future runway extension and other capital improvements, and that it needs to coordinate with the updated Transportation Master Plan. He stated that even though the average resident may not fly through here, they will benefit from the economic development. He stated demonstration of purpose is necessary for projects to be eligible for FAA funding.

MR. ANDRES defined the Airport Master Plan as a comprehensive study to determine short, immediate and long term development plans for the airport. He stated it considers potential environmental and socioeconomic impacts and that it is included in the City's vision and development strategy, however does not guarantee federal funding.

MR. ANDRES shared that the master plan will include the background, inventory, aviation activity forecasts, facility requirements, development alternatives, concept, a capital financial plan and layout plan update. He also shared that environmental consideration, a sustainability assessment including energy and recycling, public coordination and communication, and a separate Wildlife Hazard Management Plan.

MR. ANDRES stated the lead consultant is Coffman Associates, along with other project team members, and that the process is scheduled to take 18-24 months. He shared the project budget is \$600,000 with approximately 95% funded by FAA and ADOT. MR. ANDRES said that the FAA approves forecasts and final Airport Layout Plan and Mayor and Council will give final approval.

MR. ANDRES shared the anticipated Airport Master Plan Project schedule. He mentioned one change to the Public Coordination and Communication portion, stating the Planning Advisory Committee meeting will take place in October instead of September. He also mentioned this will include continual communication, feedback and testing assumptions. MR. ANDRES stated public outreach will be very valuable because strong public involvement is needed in order to provide a better plan. He also shared the list of organizations that are part of the Planning Advisory Committee, which will provide input and feedback to the project team.

MR. ANDRES stated in conclusion the Airport Master Plan will set improvements for the next ten to twenty years. He said it is critical and important, and needs to reflect Chandler. He also stated that throughout this process City staff and consultant staff will implement extensive outreach.

COMMISSIONER SYMONDS asked where the \$600,000 is spent. MR. ANDRES responded that it pays for the consultant as they know the industry and see the trends. He stated it will include major areas such as inventory, meetings, GIS, hours of analysis and communication. MR. ANDRES further stated that staff does not have the resources to take this project on themselves due to the commitment and amount of time needed.

CHAIRMAN SPERLING inquired if the amount of the Wildlife Management Plan and the required survey work costs approximately \$100,000. MR. ANDRES replied yes.

COMMISSIONER SIEGEL asked how this budget looks compared to what other airports have done. MR. ANDRES replied that it's very modest compared to Sky Harbor and in comparison to others on track.

COMMISSIONER KRUSE inquired if the Airport Commission will be provided monthly updates and be able to offer input through process. MR. ANDRES replied yes.

COMMISSIONER HAWLEY inquired if the consultant will coordinate the public meetings and workshops. MR. ANDRES reviewed the schedule of the public meetings and confirmed the consultant will coordinate the meetings. MR. ANDRES also reminded the Airport Commission to be careful of attending these meetings and creating a quorum, and asked that they please let him know so the meeting can properly be posted.

COMMISSIONER HAWLEY mentioned that with Chandler being a test site for autonomous vehicles and urban air mobility becoming a trend, that Chandler is a unique place to incorporate this into the plan. MR. ANDRES agreed stating it is a new era and important to the plan. He stated some airports have not considered this.

6. MEMBER COMMENTS/ANNOUNCEMENTS

CHAIRMAN SPERLING took a moment to remember Debbie Hodges who passed away, stating she has been part of the airport for the last three to four years. He stated she was very pleasant and will be missed. He also mentioned today being September 11, and reflected on the huge effect on this industry and recognized the efforts of those men and women who served.

CHAIRMAN SPERLING said he'll be absent at the next meeting and asked Vice Chair Tezak to chair the meeting.

7. CALENDAR

MR. ANDRES noted that the next meeting will be held on Wednesday, October 9, 2019.

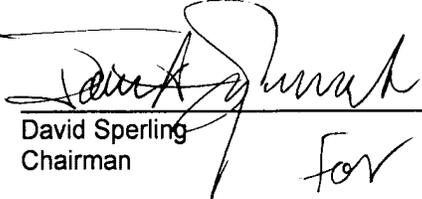
8. INFORMATION ITEMS

A. Airport Administrator's Report

MR. ANDRES said the loss of Debbie has been difficult and she was the best person he ever hired. MR. ANDRES thanked everyone for keeping her family in their thoughts.

11. ADJOURNMENT

The meeting was adjourned by CHAIRMAN SPERLING at 7:34 p.m.

  
\_\_\_\_\_  
David Sperling  
Chairman

  
\_\_\_\_\_  
Chris Andres  
Recording Secretary

STUDY SESSION MEETING MINUTES OF THE CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, October 9, 2019 at 6:30 p.m. at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER/ROLL CALL

Meeting called to order at 6:30 p.m. by VICE-CHAIRMAN JAMES SYMONDS. The following Commission Members answered roll call:

Vice-Chairman James Symonds  
Commissioner Christopher Hawley  
Commissioner Sherri Koshiol  
Commissioner David Siegel

Commissioners Absent:

Commissioner Alicia Kruse  
Chairman David Sperling  
Councilmember René Lopez, Ex-Officio

Airport Staff in Attendance:

Chris Andres, Airport Administrator  
Ryan Reeves, Airport Business Coordinator

Also in Attendance:

Heather Figueroa, City Clerk's Office (Acting Recording Secretary)  
Cristabel Dykstra, Acting Senior Management Analyst  
Kevin Mayo, Planning Administrator  
David De la Torre, Planning Manager  
Lauren Schumann, Senior Planner  
Brennan Ray, Attorney for Applicant

2. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES/CALL TO THE PUBLIC

VICE-CHAIRMAN SYMONDS inquired if there were any unscheduled public appearances, and there were none.

3. ACTION AGENDA

None.

4. BRIEFING ITEMS

A. *Discussion and possible input for the Airport Conflict Evaluation for Ferguson Enterprises development*

MR. ANDRES introduced MS. LAUREN SCHUMANN to present the staff overview of the Ferguson Enterprises development project.

MS. SCHUMANN introduced herself to recently appointed COMMISSIONER HAWLEY. She shared that when an applicant submits a rezoning case within the nine square miles of the Chandler Airport Area Plan, it must come before the Airport Commission. She reminded the Commissioners that the task this evening during this hearing is to determine if there is a conflict that exists between proposed development and current and future airport uses. She stated if a conflict does exist, the Airport Commission is to explain the specific area of conflict and have a statement of corrective action to be taken.

MS. SCHUMANN stated that Planning received an application for rezoning within the Airport Airpark Area, under application number PLH19-0042, Ferguson Enterprises. She stated the property is located west of the southwest corner of Queen Creek and McQueen roads. She further stated it consists of a three part series; 1) to rezone the property from AG-1 Agricultural Residential to Planned Area Development (PAD) for Planned Industrial Uses I-1, with office, outdoor storage and material and equipment, and a showroom and retail, also requesting a mid-rise overlay to allow for portions of the building to allow for heights up to 50'; 2) a PDP requesting site layout and architecture for building; 3) a preliminary plat establishing lot lines, easements and future right-of-way.

MS. SCHUMANN referred to the packet MR. ANDRES provided, states the original zoning request was I-2 for general industrial uses, and staff suggested to less intensify it to I-1 based on conversations with neighbors. She stated the requested use is for I-1, and that the General Plan designates this property as employment as well as within a growth area of the airport. She also stated the Chandler Airpark Area plan designates this property as industrial, allowing for a mix of both light and heavy industrial uses. MS. SCHUMANN said this request is consistent with both the General Plan and the Chandler Airpark Area Plan. She shared the site is approximately 48 acres, Ferguson is a national corporation and its operations include for this location large shipments of approximately eight per day, large trucks bringing material to site for either storage on site or to be broken down into smaller shipments for delivery to other Ferguson locations or jobsites. She also shared the following: the proposal is for approximately a 363,000 square foot building, majority for indoor warehousing and 30,000 square feet for office and 10,000 square feet retail display for customers; the request includes two future expansion phases of increasing the building size by an additional 180,000 square feet and pushing the storage yard further to the south, southern portion of property; as part of the request a mid-rise overlay was requested and any building over 45 feet requires a mid-rise overlay; the building is actually 46 feet to top of parapet, which is used to conceal all equipment on roof; and a portion of building above the front door, which would be an enhanced feature bringing the front door elevation up to 50 feet. She stated the applicant has discussed these with the Airport Manager, provided documents and she referred to an exhibit showing that the height and location of the proposal would not affect current and future operations of the airport.

MS. SCHUMANN stated as part of Phase I, half street improvements along Hamilton would be completed and that there are discussions right now about completing the signal stop light at Hamilton and Queen Creek and has not been finalized yet. She also stated the traffic impact study has been submitted and a traffic light has not been warranted at this time. MS. SCHUMANN shared that because of the mid-rise, as required two neighborhood meetings were held at the airport, and from those meetings a majority of the concerns from adjacent neighborhoods stated they did not want the area to development as an industrial hub and feared increased traffic due to the user. She stated based on the feedback staff discussed with the applicant discussed the uses I-1 versus I-2 and realized there were ultimately not many uses of development wanted under I-2 so decided to take it down to I-1.

MS. SCHUMANN said she believes there are still many residents in opposition, but is not aware of anyone attending this evening. She stated the next steps are a report will be prepared if the Commission feels there are conflicts and attached to all future memos. MS. SCHUMANN shared the project will go before Planning and Zoning Commission next week on October 16 at 5:30 p.m., and they are the recommending body of approval or denial to City Council. The project will be brought before City Council on November 7 at 6:00 p.m. She opened the meeting for questions.

COMMISSIONER HAWLEY inquired what Ferguson does. MS. SCHUMANN replied that they specialize in plumbing and building materials. She stated this location would be a distribution center of large shipments, being broken down to keep in house or deliver to other locations or job sites.

COMMISSIONER HAWLEY asked for explanation of I-1 versus I-2 uses. MS. SCHUMANN replied that I-1 is planned for light industrial and I-2 is general industrial, heavier uses. She stated when staff looked at what was approved by right under I-2, it included junk yards, hatcheries, and a list of intense uses

COMMISSIONER HAWLEY asked if the parapet at 46 feet high was with no antennas or anything else above that. MS SCHUMANN confirmed, stating the applicant has stated there is no additional equipment above the parapet such as antennas, solar panels, or reflective material.

MR. ANDRES stated that as part of the development, Ferguson will be required to file what is known as an FAA form 7460, which is required before any building permits are pulled. He further stated FAA approval confirms that the development including antennas at the top most piece of equipment does not present a hazard to air navigation. MR. ANDRES expressed there is no reason to believe anything on this project will be a hazard, and is built in the City's process for review developments in the airport area.

COMMISSIONER HAWLEY asked if they were to install solar panels, would Ferguson need to come back to the Commission. MR. ANDRES responded per FAA regulation, they would have to complete another 7460 form because the glare could be a hazard, however not sure if they would have to come back through the Commission or presumably through the tenant improvement permitting process. He stated most solar panels are now jet black matte to absorb and not nearly as reflective as years ago.

COMMISSIONER KOSHIOL asked if Ferguson was to move forward with the building expansion, if that would trigger another FAA approval. MR. ANDRES replied they would need to submit another FAA 7460 form.

VICE-CHAIRMAN SYMONDS asked if Ferguson changed anything in its perspective operations when changing zoning from I-2 to I-1. MS. SCHUMANN replied that the application originally asked for I-2, but through the process as the City reviewed the Airpark Area Plan, saw there were two types of industrial. She stated the vision for the airport is to allow for more intense industrial uses between the train tracks and McQueen Road. MS. SCHUMANN said since there was so much opposition and concerns from residents of Lantana Ranch and surrounding neighborhoods, staff suggested scaling it back to I-1 operations. VICE-CHAIRMAN SYMONDS inquired that Ferguson did not scale back its operations, the City just scaled back the description of the operation. MS. SCHUMANN agreed.

VICE-CHAIRMAN SYMONDS inquired about the number of employees. MS. SCHUMANN replied approximately 285 employees.

VICE-CHAIRMAN SYMONDS asked for any comments on this.

COMMISSIONER HAWLEY stated that we have to be careful of the safety of runway protection zones, emergency landing areas and protection for the pilots. He stated there is a perception of risk when pilots see a large building in front of them, even if the building is half a mile away and especially with the large student population.

VICE-CHAIRMAN SYMONDS asked where is this project located from the center line of the closest run way. MR. ANDRES replied that it is half a mile north of the centerline, and that the building is not aligned but at an acute angle.

COMMISSIONER HAWLEY asked for explanation of the flight patterns. MR. BRENNAN RAY, attorney for applicant, stated after conversations with MR. ANDRES that when a pilot flies in and out of the airport, a 3 degree glide on slope of approach and a 6 degree departure recognizing that no one takes off from the dead end of the runway, and are located at approximately 1,000 feet from the runway. MR. ANDRES stated it is depicted as a future building expansion and is a significant distance from the runway end.

VICE-CHAIRMAN SYMONDS asked what the heights are of the other buildings in the area, such as the City's water treatment plant. COMMISSIONER Siegel replied they are similar in height to the proposed building.

VICE-CHAIRMAN SYMONDS inquired if there was a vision of emergency landing sites when the airport was laid out and is it in black and white. MR. ANDRES said the Airpark Area Plan includes descriptions for areas, but there is not funding for land acquisitions for those purposes. He stated the reality is things typically happen from end of runway and there is a water treatment facility between this proposed site and the runway.

6. MEMBER COMMENTS/ANNOUNCEMENTS

None.

7. CALENDAR

MR. ANDRES noted that the next regular meeting will be held after this meeting.

8. INFORMATION ITEMS

None.

11. ADJOURNMENT

The meeting was adjourned by VICE-CHAIRMAN SYMONDS at 6:51 p.m.

 11/21/19

James Symonds  
Vice-Chairman

DAVID S. SPERLING  
CHAIR



Chris Andres  
Airport Administrator

REGULAR MEETING MINUTES OF THE CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, October 9, 2019 immediately following the Airport Commission Study Session which began at 6:30 p.m., at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER/ROLL CALL

Meeting called to order at 6:51 p.m. by VICE-CHAIRMAN JAMES SYMONDS. The following Commission Members answered roll call:

Vice- Chairman James Symonds  
Commissioner Christopher Hawley  
Commissioner Sherri Koshiol  
Commissioner David Siegel

Commissioners Absent:

Commissioner Alicia Kruse  
Chairman David Sperling  
Councilmember René Lopez, Ex-Officio

Airport Staff in Attendance:

Chris Andres, Airport Administrator  
Ryan Reeves, Airport Business Coordinator

Also in Attendance:

Heather Figueroa, City Clerk Management Assistant (Acting Recording Secretary)  
Cristabel Dykstra, Acting Senior Management Analyst

2. APPROVAL OF MINUTES

a. *Minutes of Wednesday, September 11, 2019*

MOTION made by COMMISSISONER KOSHIOL and seconded by COMMISSIONER SIEGEL that the minutes of the September 11, 2019, CHANDLER MUNICIPAL AIRPORT COMMISSION be approved. MOTION CARRIED UNANIMOUSLY.

3. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES/CALL TO THE PUBLIC

VICE-CHAIRMAN SYMONDS inquired if there were any unscheduled public appearances and there were none.

3. ACTION AGENDA

a. *Move to present an Airport Conflict Evaluation (ACE) report to the Zoning Administrator and the City Council with a finding of "no conflict with airport uses" for the Ferguson Enterprises industrial development.*

VICE-CHAIRMAN SYMONDS asked MR. ANDRES to begin the discussion.

MR. ANDRES stated during the Study Session, the Airport Commission was presented information regarding the motion to find "no conflict with airport uses" for the Ferguson project. He mentioned the applicant is present to address any additional questions the Commissioners may have.

VICE-CHAIRMAN SYMONDS asked if anyone had comments or questions.

COMMISSIONER HAWLEY stated that if this is approved and construction moves forward, that he expects the company to remain a good neighbor and support the airport its mission.

MOTION was made by COMMISSIONER HAWLEY and seconded by COMMISSIONER SIEGEL that Airport Commission submits an Airport Conflict Evaluation report to the Zoning Administrator and the City Council with a finding of "no conflict with airport uses" for the Ferguson Enterprises industrial development. MOTION CARRIED UNANIMOUSLY.

4. BRIEFING ITEMS

A. *Discussion and possible input regarding the Monthly Noise Report*

MR. REEVES stated there has been an increase in noise complaints as expected with the cooler temperatures. He reported there have been sixteen contacts, from ten households of which three were new contacts. He also reported six of the complaints were related to noise, one for flying and three expressed concern of increased traffic. MR. REEVES said discussions with residents focused on airspace use in the area and traffic patterns. He mentioned with the cooler temperatures, neighbors have windows/doors open, and are noticing more flight activity early in the day, particularly in the southern area, on the base leg of Runway 22R. MR. REEVES stated staff is conducting outreach to all those who submit noise complaints. He also stated these complaints have been confirmed with the Tower during tower hours, and no adverse flight operations were taking place, none below recommended FAA altitudes or none were outside the established traffic pattern.

MR. ANDRES informed the Commission that after a previous employee retired a few months ago, there were several complaints held in a temporary e-mail box. He stated a staff member from the City's Information Technology (IT) department informed him, and staff found there were approximately sixteen households who left approximately 185 noise complaint messages. MR. ANDRES stated this has been corrected, and now messages will go to a general mail box and will be checked every day from a staff member. He informed the Commission that revised numbers will be shared at the November Airport Commission meeting. He expressed gratitude to the IT team.

VICE CHAIRMAN SYMONDS asked if staff reached out to those who had left messages. MR. ANDRES responded yes, stating staff reached out to everyone and apologized.

B. *Discussion and possible input regarding the Monthly Operations Report*

MR. REEVES reported that the operations are very positive compared to last September's. He stated Chandler Municipal Airport dropped in ranking nationally to 52<sup>nd</sup> and to 18<sup>th</sup> in General Aviation airports, which was expected due to the hot temperatures still present. He said numbers continue to climb from August and are expected to through the holiday season, when the ranking will improve again. MR. REEVES stated similar numbers in national rankings have been seen at other local airports. He further stated there has not been an appreciable national change, but a significant spike in flight activity was seen in September.

VICE CHAIRMAN SYMONDS asked if the increase in flight activity was due to training. MR. REEVES responded in the affirmative. He also mentioned there has been an impressive increase in turbo jet traffic in and out of here and staff is happy to see that.

COMMISSIONER HAWLEY referred to the noise report and inquired in general if jets receive more complaints or go unnoticed by the public. MR. REEVES responded that with his 24 years of experience at airports and only have been here only two months, jets are rarely noticed. He stated there is one jet based here with established medical flights which causes them to fly in and out at odd hours. He said this one has been noticed, but generally jets fly in and out so fast, at such a climb out angle, that they are not noticed. MR. REEVES stated other local airports have similar complaint with flight training traffic versus high jet traffic. He further stated flight training is more noticed due more time overhead and flying lower, particularly on the corners of the pattern.

COMMISSIONER HAWLEY suggested that as the Master Airport Plan Update sessions begin, this would be an important data point to communicate to the public informing them jets are not the source of most of the noise complaints.

C. *Discussion and possible input regarding the Monthly Construction Report*

MR. REEVES stated the repair on the drywell grate near Gate 401A is complete, and the other three items are progressing as briefed at the two previous meetings.

D. *Presentation, discussion and possible input regarding the Airport Master Plan Update*

MR. ANDRES welcomed and introduced Cristabel Dykstra, stating she will be assisting the efforts of the Airport Master Plan Update, working on logistics and assisting Ryan with the budget process. He stated staff is working through the inventory phase, obtaining reports and providing the consultant with data and information. He mentioned staff did a very good job tracking information over the years.

MR. ANDRES shared the first Planning Advisory meeting will be held on Thursday, October 24 at 1:30 p.m. and that CHAIR SPERLING will represent commission. He stated if anyone wants to attend to please let him know so the Commission adheres to open meeting laws. MR. ANDRES said twenty-three members were invited and it is expected that fifteen will attend. He mentioned the website will contain content explaining the process and will be available before the meeting, and that he will provide the URL to the Airport Commission.

MR. ANDRES mentioned that Stephanie Romero who is a Public Information Officer with the City will be working on the social media communication outreach, and augmenting additional ways to communicate about the Airport Master Plan. He stated social media is one component, but there will be multiple methods of outreach for airport tenants and the broader community.

MR. ANDRES informed the Commission that the configuration of the Airport Terminal meeting room will be updated in order to provide more comfortable and flexible layouts for various types of meetings. He expressed his gratitude to the City Manager for providing funding for these updates.

6. MEMBER COMMENTS/ANNOUNCEMENTS

None.

7. CALENDAR

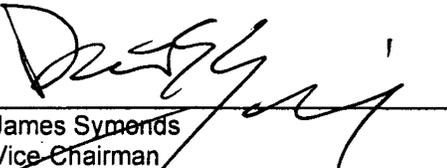
VICE-CHAIRMAN SYMONDS noted that the next regular meeting will be held on Wednesday, November 13, 2019.

8. INFORMATION ITEMS

MR. ANDRES shared interviews for the Senior Administrative Assistant will take place tomorrow with four internal candidates, and he hopes to have someone on board by October 28.

11. ADJOURNMENT

The meeting was adjourned by VICE-CHAIRMAN SYMONDS at 7:10 p.m.

  
James Symonds  
Vice Chairman

  
Chris Andres  
Airport Administrator

DAVID S. SPERLING  
CHAIR

REGULAR MEETING MINUTES OF THE CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, November 13, 2019 at 6:30 p.m. at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER/ROLL CALL

Meeting called to order at 6:31 p.m. by CHAIRMAN DAVID SPERLING. The following Commission Members answered roll call:

Chairman David Sperling  
Vice Chairman James Symonds  
Commissioner Chris Hawley  
Commissioner Sherri Koshiol  
Commissioner Alicia Kruse  
Commissioner David Siegel

Commissioners Absent:

Councilmember René Lopez, Ex-Officio

Airport Staff in Attendance:

Chris Andres, Airport Administrator  
Ryan Reeves, Airport Business Coordinator  
Diana Alonzo, Senior Administrative Assistant

Also in Attendance:

Joshua Wright, Assistant City Manager  
Dana DeLong, City Clerk  
Cristabel Dykstra, Development Services  
Stephanie Romero, Communications and Public Affairs

2. APPROVAL OF MINUTES

A. Minutes of the Study Session - Wednesday, October 9, 2019

It was moved by COMMISSIONER SIEGEL and seconded by COMMISSIONER SYMONDS that the minutes of the Study Session on October 9, 2019 for the CHANDLER MUNICIPAL AIRPORT COMMISSION be approved. MOTION CARRIED UNANIMOUSLY.

B. Minutes of the Regular Meeting - Wednesday, October 9, 2019

It was moved by COMMISSIONER SYMONDS and seconded by COMMISSIONER KRUSE that the minutes of the Regular Meeting on October 9, 2019 for the CHANDLER MUNICIPAL AIRPORT COMMISSION be approved. MOTION CARRIED UNANIMOUSLY.

3. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES/CALL TO THE PUBLIC

None.

4. ACTION AGENDA

None.

5. BRIEFING ITEMS

A. *Discussion and possible input regarding the Monthly Noise Report*

MR. REEVES stated due to a system error in the system there were 187 noise complaints between early May and September that were not logged. There will be a briefing regarding the amended numbers.

MR. REEVES said there were 29 complaints out of 10 households: Five households were new and five were repeat callers. Of the complaints, 25 were for noise and 4 were for low-flying aircraft. Each case was reviewed for the flight path and the tower, no adverse or unsafe flights were observed. The numbers are down considerably from the previous year.

CHAIRMAN SPERLING inquired if the noise complaints were equally dispersed across the households.

MR. REEVES stated that 19 of the complaints were from one household.

CHAIRMAN SPERLING asked if everyone that made a complaint was contacted.

MR. REEVES said that was correct.

MR. REEVES presented the amended data for the complaints that were not logged between May 19 and September 19. Prior to these numbers, there were approximately 670. After the new numbers were added, the total came to 810 from January 1, 2019 to October 31, 2019. Mr. Reeves noted that 81.7% of the annual total so far is from one household. Incidentally, it is the same household that had the majority of complaints in October.

COMMISSIONER HAWLEY asked for further clarification for the month of May.

MR. REEVES said in May there were 154 complaints.

COMMISSIONER HAWLEY said in other months it averaged between 5 and 20.

MR. REEVES said that is correct. Mr. Reeves said historically around the May and June timeframe a telephone conversation did happen with the household in question and the reports seemed to decline but they have since started again in recent months.

COMMISSIONER HAWLEY clarified this was not an issue of the missing complaints.

MR. ANDRES said that was correct. The individual household has been mentioned in previous meetings and there was a conversation about outreaching to the individual.

COMMISSIONER KRUSE said in the summertime they thought perhaps it was reduced due to the air conditioning noise but it seems to still be concentrated with one individual. Commissioner Kruse asked if it was a seasonal issue due to the individual not being present in the summertime.

MR. ANDRES said that is correct. Based on the individual's employment they believe in the summer they are not here locally.

COMMISSIONER KRUSE asked if there were any complaints made by the person in the months of June, July, or August.

MR. ANDRES said he thought the complaints started towards the end of August. Mr. Andres said they are unable to go into further detail about the individual.

CHAIRMAN SPERLING asked if they continue to make contact with the individual.

MR. REEVES said they have attempted contacts. On the noise complaint site, the individuals can select if they wish to be contacted. This individual selects no. If the complaints continue, they will attempt further outreach but when the complaints are made, they are usually minute-by-minute over a period of time.

COMMISSIONER HAWLEY said for fairness as they record these if they could put the number of households that are involved to get a true picture of what is happening. Without having the additional context, someone could assume things about the airport that is not accurate.

MR. REEVES said in the October noise report the data is broken down to reflect the number of household and the type of reports.

MR. ANDRES said because of that very issue, if one person calls 800 times then one person was impacted by airport noise. Airports in the last 15 years have shifted to counting households because it is a true indicator of the community impact. Compared to other airports they do not have a noise issue compared to an airport like Sky Harbor. If one person is impacted by aircraft noise, that impact is a reality and is an ongoing issue for all airports.

CHAIRMAN SPERLING said it was not unique for a person to complain. This happens and they trust Staff is working on a strategy moving forward.

*B. Discussion and possible input regarding the Monthly Operations Report*

MR. REEVES reviewed the report for the past 12 months. Entering the cooler months, Chandler is recovering very well. The Airport saw a jump in their general aviation place in the national scheme from 18 to 13 place in the past month. Overall, in the entire system, Chandler ranked 57<sup>th</sup> busiest airport, which is largely attributable because small and medium hubs saw an appreciable uptick. Mr. Reeves said Chandler maintained its ranking.

*C. Discussion and possible input regarding the Monthly Construction Report*

MR. REEVES stated a new item on the list was parking maintenance. On November 19 and 20, the Airport will be resurfacing the parking lot. All other items reported are on schedule.

*D. Presentation, discussion and possible input regarding the Airport Master Plan Update*

MR. ANDRES said the first Planning Advisory Committee went very well. Mr. Andres said he would present the material from the Planning Advisory Committee. A very valuable exercise was the SWOT analysis and there was a very good discussion among the almost 20 participating members.

MR. ANDRES presented the following Power Point presentation.

- Planning Advisory Committee Meeting #1
  - October 24, 2019 1:30 P.M.
  - Agenda
    - Call to Order
    - Introduction of Committee Members, Staff and Consultants
    - Presentation and Discussion of the Role of the Airport Master Plan Planning Advisory Committee
    - Presentation and Discussion of the Process, Procedures, Deadlines, and Information to be Used and Collected to Completed the Airport Master Plan
    - Next Meeting Date will be Selected
    - Adjourn

MR. ANDRES gave the Airport Committee business cards for Master Plan to encourage people to submit comments.

- Role of the Planning Advisory Committee
  - The purpose of the Planning Advisory Committee (Committee) is to provide Chandler Municipal Airport and the planning consultant (Coffman Associates) with input into the Airport Master Plan.
  - The members of the Committee are intended to represent a variety of organizations and individuals with interest in the use and development of Chandler Municipal Airport. These include governmental interests, aviation, and non-aviation interests, and area economic development interests.
  - The role of the Committee is to provide input to the City of Chandler and the Consultant regarding the current and future use of Chandler Municipal Airport. The Committee will review elements of the Airport Master Plan while they are in draft form and comment on the accuracy of the assumptions and relevance of the information used to develop the report. The Committee is non-voting advisory body. While all comments made by the Committee members will be considered by the consultant in developing the draft and final version of the report, the Committee will not vote to approve or disapprove elements of the study.
- Role of the Planning Advisory Committee
  - Individual Committee members are considered to represent their designated organizations. It is the responsibility of Committee members to communicate with their respective organizations and report any comments/concerns regarding the development of the Airport Master Plan from their organization back to the Committee, the City, and the Consultant throughout the process.
  - Committee meetings will be held periodical throughout the preparation of the Airport Master Plan. There are four (4) meetings planned at this time.
  - Attendance at the meetings is strongly encouraged. Each member of the Committee represents a unique or significant group. If you are unable to attend any given meeting, please send a representative who is able to speak for you or your organization.
- Role of the Planning Advisory Committee
  - For your convenience, comment forms will be provided for Committee members to submit written comments for consideration in preparing the final report. It would be greatly appreciated if comments are submitted by the due date indicated on the form (approximately two weeks

- following the meeting). If this is not possible, contact Coffman Associates and let them know when you plan to submit your comments. Comments can also be submitted electronically through the project website dedicated to this study (<http://chandler.airportstudy.com>).
- Comments or Questions regarding the Committee, meetings, or working papers should be directed to Matt Quick with Coffman Associates at 1-800-574-6334, or to Chris Andres (Airport Administrator) at 480-782-3540.
  - A series of Public Information Workshops will be held during the course of the study. The primary purpose of these workshops is to allow the public to obtain information regarding the Master Plan, ask questions, and provide input. Each Committee member is invited to attend this meeting and to encourage members of their organization to attend.
- National Plan of Integrated Airport Systems (NPIAS)
  - Principles of the NPIAS
    - Airports should be safe, efficient, and developed to appropriate standards.
    - Airports should be flexible and expandable, able to meet increased demand, and accommodate new aircraft types.
    - Airports should be compatible with surrounding communities; maintaining balance between the needs of aviation and requirements for neighboring areas.
    - The airport system should help air transportation contribute to a productive national and regional economy.
  - Role of the Chandler Municipal Airport
    - Defined by the FAA's National Plan of Integrated Airport Systems (NPIAS).
    - The NPIAS identifies airports that are significant to air transportation and, thus, eligible to receive federal grant funding.
    - Chandler Municipal Airport – "Reliever" category with a "Regional" role
  - Airport Master Plan
    - Provides a visioning document to guide the City of Chandler and other decision makers regarding the future development of the airport over the next 20 years.
    - Evaluates the airport's aviation demand potential
    - Addresses local, regional, and national changes in the aviation industry that could impact the development of the airport.
  - Airport Master Plan
    - Identifies and plans for potential capital projects well in advance so that proper coordination, approvals, financing, design, and construction can take place in a timely manner.
    - Obtains approval of new aviation demand forecasts and an updated Airport Layout Plan (ALP).
    - Increases stakeholder/public awareness of the Airport's goals and objectives.
  - Airport Master Plan Process and Timeline
  - SWOT Analysis
    - Strengths
    - Weaknesses
    - Opportunities
    - Threats
  - Airport Map

MR. ANDRES asked for input from the commission regarding the SWOT analysis and their feedback will be given to the consultant.

COMMISSIONER HAWLEY said aviation is going to change a lot in the next 10 to 15 years with new emerging technology. Commissioner Hawley said the Chandler airport has some unique advantages and it would be cool to have a tech company in that space settle here. For example, under strengths there is a large underutilized helipad, a lot of nearby desert area, a populous that is familiar with autonomous cars, they have a City government that has encouraged the development, a large engineering school nearby, a large aerospace industrial base, and great flyer weather for testing. Commissioner Hawley said he believed those were unrealized strengths.

COMMISSIONER KOSHIOL said from a threat standpoint is public perception especially from residents for a long time who know the history of what has happened in the past.

COMMISSIONER KRUSE said with those new technologies the question is raised regarding what those actual costs are and who will be able to afford to do something like that. Commissioner Kruse said there would be a growing phase before everyone is ramped up and the technology is affordable for everyone.

COMMISSIONER HAWLEY said some of the opportunities were already well documented like increasing the runway to allow more travelers in and encourage economic development. A threat is that there are a lot of very well run airports and there is a lot of competition.

CHAIRMAN SPERLING said a weakness that they have all had discussions about is the runway. The opportunity is that there is an airport plan that shows a longer runway, it seems Staff, and Council seem to want to have a discussion. The threat of that is there is an election in a year so things may change.

COMMISSIONER HAWLEY said they do have some unique legislation that is complicating the development and perhaps it needs to be revised.

COMMISSIONER KRUSE said space is a weakness.

COMMISSIONER KOSHIOL asked more about what Commissioner Hawley was referring to in regards to urban air mobility.

COMMISSIONER HAWLEY said urban air mobility is the idea of vertical takeoff and landing aircraft. They are electric aircraft for point-to-point transportation and there are over 200 companies building prototypes.

COMMISSIONER KOSHIOL asked if runway length has an impact in that situation.

COMMISSIONER HAWLEY said not so much and that is probably a strength. The Airport has a large helipad, which is something other airports in the area do not have.

COMMISSIONER HAWLEY said Prescott has a company that is setting up to building electric aircraft and it seems to be where everything is heading.

CHAIRMAN SPERLING said a good strength is that the City's finances are in order and if they so choose can figure out how to make capital improvements work.

COMMISSIONER HAWLEY said he was unsure if it was something that had to be studied. In the past, this area had a different demographic with many retirees and that may be changing. Commissioner Hawley said he was not sure if it was a strength or a weakness but it is probably reason to look again at some legislation that was past previously.

COMMISSIONER HAWLEY inquired if this was echoing things that were said at the Committee meeting.

MR. ANDRES said some comments are similar, but some things that have a different take, which is extremely important. At the Committee, the ideas hit a lot of the big ideas but may not have been comprehensive and there were other items not brought up because of time or the flow of the conversation. The Commissions' opinion and the public's opinion is very important.

COMMISSIONER HAWLEY said another thing that will be change is the future of pilot training. This has always been a training airport but the way pilots are trained in future will change because of the way aircraft are flown in the future. They may see more single pilot aircraft and more aircraft that may perhaps have a pilot for takeoff and landing and go away for the cruise part of the flight. They may also see pilots trained on drones or simulators first and change the demand for certain types of pilots. Commissioner Hawley said you cannot count on the same type of business in the future and a longer runway provides more options.

COMMISSIONER HAWLEY said a company just announced where there is a new system where if they run into trouble they can hit a button and the screens go to a cartoon to tell the passengers the aircraft will be landing in ten minutes. It also announces to air traffic control declaring an emergency, finds an airport, navigates around the weather, lands the plane, breaks, and turns off the engine all by itself. Traditional aviation may change dramatically.

CHAIRMAN SPERLING said there is the threat of an economic downturn and the City has been going through an unprecedented period of growth. They have seen those before so when it happens it will affect the airport.

COMMISSIONER KRUSE said the way air traffic is going to move will change. When Uber and Lyft came on the scene there was supposed to be less traffic but the reverse actually happened. So when they have a lot of smaller personal aircraft vehicles in the air it will change depending on how they are used.

COMMISSIONER HAWLEY said there was an opportunity to build more of a community at the airport. Falcon Field does a great job of doing community focused events and it creates a sense of legacy and belonging that Chandler should aspire to.

COMMISSIONER KRUSE said it is important to educate the community and the youth about aviation.

COMMISSIONER HAWLEY said educational opportunities are important and the more they can integrate into schools it will impact the airport. Gateway has some programs through the high schools but he was not sure if Chandler offers something similar. Commissioner Hawley said to make the airport more comfortable as a tenant and more hangar space would be a good opportunity.

CHAIRMAN SPERLING said there is an opportunity to provide more today.

COMMISSIONER KRUSE said an opportunity for strategic partnership with technology companies where they can broker deals now and plan what they anticipate they need.

CHAIRMAN SPERLING said the upcoming Airpark Area Plan should also provide opportunities for the airport and aviation community.

COMMISSIONER HAWLEY asked how climate change might affect the community. It has been building for decades but if it raises a few degrees, it may slow down the growth.

MR. ANDRES said there are other airports that are planning for that. Another opportunity would be additional revenue generation. As business changes the traditional revenue streams could get squeezed.

COMMISSIONER HAWLEY said the aging pilot population does not bode well for fuel sales or just general aviation.

COMMISSIONER KOSHIOL said legislation may be an opportunity or a threat but there are always new rules and laws.

COMMISSIONER HAWLEY inquired if they thought of other ideas if they should submit them.

MR. ANDRES said yes. If there are any other comments, they could be submitted online. MR. ANDRES thanked them for their ideas and the discussion. The more input is welcomed since they are not done with the subject.

CHAIRMAN SPERLING asked if there were any other general comments. There was none.

CHAIRMAN SPERLING asked about the schedule for the master plan and the entire process.

MR. ANDRES said that in the future he would provide a high-level schedule each month. The current plan will take them all the way through 2020 and early 2021. As of now there is probably another 14 months so the next few months will be the inventory period.

CHAIRMAN SPERLING inquired if the 14 months was to the final FAA signature on the layout plan or is that until substantial work is completed.

MR. ANDRES said this assumes everything in our control. Waiting on the FAA could potentially be longer. The short answer is that it includes a reasonable amount of time for the FAA to review. The City would approve it and

then it is sent to the FAA for final signature but that process could vary. Once they have all of the local approvals and it is sent to the FAA, it is out of their hands.

CHAIRMAN SPERLING asked if the 14 months included that if things go well.

MR. ANDRES said yes.

CHAIRMAN SPERLING asked when they expect substantial work to be completed.

MR. ANDRES said a year from now. They are dealing with a process and every community is different. It could extend but in general this is a reasonable estimate of what it would take but things can always happen. About 13 to 14 months from now it would generally be done.

COMMISSIONER KOSHIOL asked if the ALP was within their boundaries.

MR. ANDRES said yes. The Airport Layout Plan will acknowledge off airport development but at a very basic land use level and for obstacles and obstructions that could impact air travel. The Airpark Area Plan Update will be happening in the next few months and will be everything around the airport.

COMMISSIONER KOSHIOL asked if they were running concurrently.

MR. ANDRES said yes. They had the early lead so they can then feed into that process with Development Services. It is a very similar process with public engagement for the Airpark Area Plan.

COMMISSIONER HAWLEY asked if there was any representation for the Airpark Area Plan update.

MR. ANDRES said there would be. That Committee has not been finalized but there will be plenty of airport representation and a public process. The airport would not be leading it but would be participating and advising. There is also some general confusion between the Airport and the Airpark so hopefully they will be able to address that and clarified.

CHAIRMAN SPERLING said he thought it was important that there was some input from the Commission following the Committee meeting. During the meeting, clearly some voices were louder than others were. To further get more diversification of thought into the process and the consultant has seen this before but the more voices that are heard in the early stages the better the process would be.

MR. ANDRES said silence is not a virtue in this process. It is absolutely critical, the more voices are important.

CHAIRMAN SPERLING said to be fair not everyone is comfortable speaking out in that environment but there are other avenues to have their input.

6. MEMBER COMMENTS/ANNOUNCEMENTS

COMMISSIONER KOSHIOL liked the airport flyer.

7. CALENDAR

CHAIRMAN SPERLING noted that the next meeting would be held on Wednesday, December 11, 2019 at 6:30 p.m.

8. INFORMATION ITEMS

A. Airport Administrator's Report

MR. ANDRES said this is the first newsletter they have done in about five years and they could not have gotten it done without CAPA. A lot of effort went into it. There is an electronic version, some physical copies will happen later and it will be sent out monthly.

MR. ANDRES introduced Diana Alonzo who is the new senior administrative assistant.

MR. ANDRES said they are not fully staffed and have a vacancy open for the airport operations and maintenance technician. They are recruiting for that position and will close soon so they are moving to fill the position quickly but they would likely start in the new year.

MR. ANDRES said 2019 it was been a year of great change. By the time 2020 comes there will only be two employees that were also there in 2019. MR. ANDRES said the Airport had a 66% turnover in staff but there have been great people who have been lost and great people have been brought on. In 2020, they plan to take everything to the next level.

MR. ANDRES said that new furniture for the conference room would be arriving in the end of November.

11. ADJOURNMENT

The meeting was adjourned by CHAIRMAN SPERLING at 7:41 p.m.

 12/11/19  
\_\_\_\_\_  
David Sperling  
Chairman

 12/11/19  
\_\_\_\_\_  
Chris Andres  
Recording Secretary

REGULAR MEETING MINUTES OF THE CHANDLER MUNICIPAL AIRPORT COMMISSION, on Wednesday, December 11, 2019 at 6:40 p.m. at the Chandler Municipal Airport, 2380 South Stinson Way, Chandler, Arizona.

1. CALL TO ORDER/ROLL CALL

Meeting called to order at 6:40 p.m. by CHAIRMAN DAVID SPERLING. The following Commission Members answered roll call:

Chairman David Sperling  
Commissioner Chris Hawley  
Commissioner Sherri Koshiol  
Commissioner Alicia Kruse  
Commissioner David Siegel  
Councilmember René Lopez, Ex-Officio

Commissioners Absent:

Vice Chairman James Symonds

Airport Staff in Attendance:

Chris Andres, Airport Administrator  
Ryan Reeves, Airport Business Coordinator  
Diana Alonzo, Senior Administrative Assistant

Also in Attendance:

Joshua Wright, Assistant City Manager  
Heather Figueroa, City Clerk Management Assistant  
Lauren Schumann, Senior Planner  
David De la Torre, Planning Manager  
Mr. Steve Smith, Chandler Air Service

2. APPROVAL OF MINUTES

A. Minutes of the Regular Meeting - Wednesday, November 13, 2019

It was moved by COMMISSIONER SIEGEL and seconded by COMMISSIONER KOSHIOL that the minutes of the Regular Meeting on November 13, 2019 for the CHANDLER MUNICIPAL AIRPORT COMMISSION be approved. MOTION CARRIED UNANIMOUSLY.

3. SCHEDULED/UNSCHEDULED PUBLIC APPEARANCES/CALL TO THE PUBLIC

CHAIRMAN SPERLING stated there is one Public Appearance by Steve Smith from Chandler Air Service regarding Agenda Item Number 5e. He welcomed Steve Smith from Chandler Air Service.

4. ACTION AGENDA

A. MR. ANDRES asked if there were any additional questions regarding this item.

It was moved by COMMISSIONER KOSHIOL and seconded by COMMISSIONER HAWLEY that "no conflict with airport uses" for the 800 E. Germann industrial development for the CHANDLER MUNICIPAL AIRPORT COMMISSION be approved. MOTION CARRIED UNANIMOUSLY.

B. MR. ANDRES explained of the importance of Action Item B and apologized for having to move promptly on this item. City Council was going to vote on this the following day in order to authorize the execution of the grant. He also explained that this funding would provide funds to rehabilitate the pavement for Taxiway C, the southernmost Taxiway on the airport.

MR. ANDRES showed Taxiway C on the map (running south of Runway 4L). He also explained that out of all the runways, this one has the lowest pavement conditions and essentially was failing. The state's Pavement Priority Report is on file with ADOT (Arizona Department of Transportation). He also stated that this report is used for funding opportunities. The Taxiway is in use and the state has given the Airport one million dollars to help rehabilitate the taxiway in order for it to be in an acceptable standard. He also stated that the grant is a 90/10 Grant. The city will only pay for 10% of the project cost, and ADOT will match 90% of the cost.

MR. ANDRES expressed how this opportunity would be a great return on investment for the city. He is hoping to get this project done sometime in the spring of 2020.

COMMISSIONER KRUSE asked if the 1.1 million was enough for the project.

MR. ANDRES stated that it is enough.

COUNCILMEMBER LOPEZ asked if it was the entire Taxiway.

MR ANDRES responded that it is, but it is only surface repair. There is no need to do a complete demolition and rebuild; they are only re-finishing the Taxiway.

CHAIRMAN SPERLING asked if there were any sub issues.

MR. ANDRES stated that there were no sub issues, and cracking has revealed that it is superficial. The cracking does not go very deep. In current evaluation, the engineer estimated that the fix is relatively easy.

CHAIRMAN SPERLING asked if Taxiway C the worst PCI in the airport and asked if this was part of the Pavement Management Program.

MR. ANDRES responded that it was separate grant from the ADOT Project. He also stated that the Airport is part of the State's Airport Pavement Maintenance Program. The program helps airports in rural areas that have little to no pavement funding and it is a great deal for those airports. He also stated that the airport does not necessarily fall in this category, but Chandler takes advantage when the grants are available. The airport remains consistent with state funding and that is why the airport is in a good position to receive the 1.1 million grant.

COMMISSIONER HAWLEY asked if the other program was free of cost to the airport. MR. ANDRES responded that the last project had a cost of 20k for the north Runway and Taxiway A.

COMMISSIONER KRUSE asked if they had received any quotes for the project.

MR. ANDRES stated that they received estimates from engineers, but the final number will come when they do bids. While the main design is done, the state of Arizona changed the law and now for all airport projects, you have to go through a federal Environmental Program. Even though there is no Federal funding, that is the agreement the state has with the F.A.A. (Federal Aviation Administration).

MR. ANDRES also stated that he is confident with the numbers they have been given and does not expect a high contingency.

COMMISSIONER KRUSE asked if the numbers come lower, does the amount become less for the ADOT and the City of Chandler and if the grant will remain as 90/10. MR. ANDRES responded that it would remain that way.

It was moved by COMMISSIONER KRUSE and seconded by COMMISSIONER HAWLEY Moved to approve forwarding a recommendation to City Council for authorization to enter into a grant agreement with the Arizona Department of Transportation to accept a grant in an amount not to exceed \$1,029,600 for the rehabilitation of Taxiway C at the CHANDLER MUNICIPAL AIRPORT is approved. MOTION CARRIED UNANIMOUSLY.

## 5. BRIEFING ITEMS

### A. *Discussion and possible input regarding the Monthly Noise Report*

MR. REEVES stated there is an error on the noise complaints and attached a loose paper with the correct data. For the month of November, 16 noise reports are noted for 14 houses, one household reported twice. He also stated that the majority reported noise

complaints, but 2 were for low-flying aircraft. Three of those complaints were for increased air traffic. He also stated that 9 out of the 14 households were new complaints.

MR. REEVES stated that last month's report had a household that made a sizeable amount of complaints, but this past month that household made no complaints this month and reports are down from last year's 105 reports for 5 households. This month they were able to isolate the aircraft that caused the noise complaints and it was not from this airport. The complaints were for 4 helicopters between the hours of 5:30am and 5:45am going east to west and roughly 12 hours later in the evening going west to east. After looking into the descriptions given by residents, MR. REEVES called SRP (Salt River Project). SRP was flying crews to and from the Palo Verde Nuclear Station out of Mesa Gateway Airport; this was confirmed by the Chief Pilot. Each case was reviewed for the flight path and the tower, no adverse or unsafe flights were observed.

*B. Discussion and possible input regarding the Monthly Operations Report*

MR. REEVES said that they are up 500 operations from last year and there is also an increase in local operations. He also said that there has been an increase in Corporate Jet Operations flying from West to East Coast arrivals during the month of November. Chandler is displaying very healthy numbers with only being down 3K operations from last year. The Airport is doing well nationally, even though the ranking has not changed since the large hubs are seeing an increase in traffic. Mr. Reeves said Chandler maintained its ranking.

*C. Discussion and possible input regarding the Monthly Construction Report*

MR. REEVES stated they received state local grant for Taxiway C. The demolition of the Venture Hangar Offices has been scheduled, as that the offices do not meet code. He said they are in talks with contractors to remove offices and use the hangar in the future.

COMMISSIONER HAWLEY asked if the hangar from the offices was going to be used.

MR. REEVES replied yes since the hangar had no structural issues, but the offices did have issues that are fiscally neither possible nor responsible to fix.

MR. REEVES stated the pavement was cracked-sealed and surface coated with new paint. The project was completed on November 26. He also stated that the sewer repairs have been pushed to quarter 2 or quarter 3 of 2020 due to contractual scheduling issues. This push back will benefit the tenants and have minimal impact on operations. He also stated that Runway 4R-22L pavement maintenance (crack seal) is starting on December 14 and continuing all the way through December 21<sup>st</sup>. He also explained that the PCI index is degrading, but is still serviceable, but it is part of the regular maintenance.

MR. ANDRES clarified that the money being used for this project is city money, which is why they rely heavily on the FAA and ADOT for major pavement reconstruction projects. The airport has \$100,000 a year for pavement maintenance, but they were able to combine the funds from last year with the funds of this year in order to complete a larger project per FAA requirements. He also stated that a couple of years ago, the FAA contacted the airports because they were relying heavily on FAA and state funds for pavement maintenance. In order to continue receiving grants from the state and FAA, the airports must maintain their pavement.

MR. REEVES added that he can attest to the FAA becoming more vocal when it comes to airports not doing their part to preserve their pavement. If airports do not maintain their own pavements, this can affect the funding and future for airfield operations. He also stated that the local ADOT Aeronautics Division shutdown matching funding because the state budget was not there. He said that the prior year, a Bill was pushed through the House and Senate at state level in order to restore 10 million dollars back into the State Aviation Fund. This is an effort to be fiscally responsible in order to benefit projects like this one.

*D. Presentation, discussion and possible input regarding the Airport Master Plan Update*

MR. ANDRES said they are still in the inventory phase and collecting information to transmit to the consultant. He also stated that the comments from the last meeting were forwarded to the Planning Advisory Committee. Mr. ANDRES said there were only a few more items to research for the SWOT analysis. They are working on scheduling a public meeting on Wednesday, February 26, 2020 in the evening; he also recognized Neil Jones since Quantum Helicopters will be hosting the event. He also stated that this is a great venue in order for the public to have an up-close experience about the functions of the airport.

MR. ANDRES stated MR.REEVES has been updating the Based Aircraft Report over the past two months. MR.REEVES stated that the airport is considered to be a reliever airport, which allows other airports to operate in a safe manner by relieving some of the traffic from commercial hubs. In order to remain in a reliever status, the airport must have 100 or more aircraft and the airport has exceeded the amount needed. Every tail number on the airport was audited and to date we have entered 469 aircraft. Every other airport in the United States, is also entering aircraft numbers. We are currently disputing aircraft with 49 other airports. As of now, 393 aircraft have been verified by the FAA, this gives the FAA a measure as to how much of a reliever the airport this is.

COUNCILMEMBER LOPEZ asked MR. REEVES asked how it works when aircrafts have dual residency.

MR. REEVES responded that if an aircraft has been in Arizona for 30 days, they are responsible for updating the registration to Arizona per the state law. If an aircraft has dual registration, the FAA will look into where the local address is.

MR. ANDRES stated that he and MR. REEVES attended the Arizona Airport Association one day meeting. That is the day they learned that they needed to update their Based Aircraft Report by December 13, 2019. He also stated that traditionally, airports have not kept up with the most accurate numbers due to other priorities. The data needs to be accurate since the FAA will base funding on these reports since there are more projects than funds available.

*E. Discussion and possible input regarding the Potential Cancellation of the Runway 4R NDB and VOR Instrument Approach Procedures.*

MR. ANDRES stated that he received a call from a working group within the FAA. The group has been charged with reducing the number of underutilized instrument approach procedures nationwide with a deadline of January 1, 2020.

MR. ANDRES gave everyone a packet showcasing instrument approach plates indicating 4R NDB and VOR. He also indicated that in the next page the VOR is in orange. The stance the FAA has regarding NDB (Non-Directional Beacon) is an older technology and not necessarily modern. MR. ANDRES also stated that he couldn't find other airports aside from CHD (Chandler Municipal Airport) that still used the NDB approach. After speaking to some pilots, the feedback he received was that aircraft might not even have the equipment for this approach in order to utilize it. The FAA is asking for the airport's feedback on whether they will continue using all three procedures. He also shared that Scottsdale Airport has two VOR procedures, while Chandler and Gateway Airports have one.

MR. ANDRES is asking for feedback from the commission in order to give the FAA an answer.

CHAIRMAN SPERLING introduced MR. STEVE SMITH for Public Appearance regarding Agenda Item Number 5e.

MR. SMITH stated that there are several reasons as to why removing VOR Instrument Approach Procedures would affect the airport. He shared that CHD (Chandler Municipal Airport) is primarily a training airport, and they also use the ILS (Instrument Landing System). He also shared that there are limited times for when they can use the approaches for training and all the approaches are used. There are many flight schools around the valley; approaches begin at just under 4,000 feet and the flight schools stack-

up at 500 feet intervals. In order to maintain safe operations, it is critical for other airports to have different approaches available. MR. SMITH also shared that by eliminating approaches, people will go to other airports in order to train. The NDB (Non-Directional Beacon) technology is the same used by the Japanese in order to find Pearl Harbor. Since then the technology has advanced so it is not highly used equipment. However, in places like Africa and Europe, this technology is used extensively. He also shared that from a flight school approach the NDB approach is not as critical, but the VOR approach combined with the GPS approach is extremely important. In addition, most aircraft now have back-up systems; in the case of the GPS failing then the pilot can use the NDB or VOR approach. The department of defense will occasionally perform testing that will disconnect satellites and affect the GPS system. This creates an unreliable connection and this is why the alternative approaches are helpful. MR. SMITH also reached out to the Coffman Company that was hired by the City of Chandler for the Master Plan and is wondering why the FAA wants to eliminate an approach when there is a study in place for the expansion of the airport. He wants to encourage everyone to reach out to the FAA and support for all the approaches to continue operating.

CHAIRMAN SPERLING asked if there were any questions.

COMMISSIONER HAWLEY asked MR. SMITH the number of aircraft in his fleet.

MR. SMITH responded that they have 25 aircraft in their fleet.

COMMISSIONER HAWLEY asked MR. SMITH the number of aircrafts that used VOR.

MR. SMITH responded about 12-15 aircraft.

COMMISSIONER HAWLEY asked MR. SMITH how many aircraft have NDB equipment.

MR. SMITH said none because it is not highly unutilized and they are being decommissioned nationwide. They have now replaced them with GPS.

COMMISSIONER HAWLEY stated that he agrees with the VOR approach since he didn't see an upside to eliminating it, but only a downside. He also asked MR. SMITH if he saw any value in keeping the NDB approach.

MR. SMITH responded they are not able to use it often because it is hard to obtain some parts. However, in his personal opinion if they had to get rid one approach, he would say NDB would be the one to eliminate.

COMMISSIONER HAWLEY asked if they had any foreign students.

MR. SMITH replied they have a few, not too many.

COMMISSIONER HAWLEY asked if he saw any value in keeping the NDB approach.

MR. SMITH said their school doesn't really use it, only flight schools that train a lot of foreign students do, since they will go back to areas that use this approach.

COMMISSIONER HAWLEY asked if there were larger flight schools using the NDB approach.

MR. JASON MCCREA responded on NDB approaches, that foreign pilots are not going to use NDB instrumentation; they are going to use a GPS system. You are able to use your GPS for any approach used. Even in areas like Central America, Africa and Europe that use the NDB approach, they are still going to have a GPS system. He also stated that as a pilot, he would argue that if you have to get rid of one approach, it would be the NDB and retain the VOR approach. He also stated that in order for aircraft like Southwest Charter's to use this airport they need to have a land-based navigation alternate.

COMMISSIONER HAWLEY asked if a Part 135 operator must have a land base navigation in order to land.

MR. MCCREA responded that you can have a shoot and not have approach here. If there is not a land based approach, most operations will not allow you to land here.

COMMISSIONER HAWLEY asked about the VOR count and if there is any value in keeping it.

MR. MCCREA said no, he is surprised that we still have it.

COMMISSIONER KRUSE asked if there was a way to determine how often it is being utilized. It is important to know how much it is being utilized before determining to eliminate the approach.

MR. MCCREA you can find out by the data showing the number of times it is being requested.

MR. ANDRES stated that he reached out to Tim Krieger, the Traffic Control Manager. He asked him about this issue and MR. KRIEGER was adamant that the NDB and VOR should go away due to safety issues. His argument was based on the landing approached and

how they cut through north runway pattern to get to the south runway, while the GPS is a straight-in approach.

CHAIRMAN SPERLING stated that they are only there to flesh-out the issue and obtain feedback.

MR. ANDRES stated that the feedback will be given to the FAA, but they will essentially do what they want to do since these are not city facilities.

COUNCILMEMBER LOPEZ asked if these were FAA facilities that are maintained and supported by them.

CHAIRMAN SPERLING stated they are only discussing procedures and not facilities.

MR. ANDRES stated that the NDB is Chandler's, but cannot recall if the VOR is.

COMMISSIONER HAWLEY asked what the costs to maintain the facilities are.

MR. ANDRES stated that there is a power source to the NDB; it is essentially a radio transmitter. There is no exact number of the cost, but it is not a heavy burden. However, the budget is not as high, but they have to be careful on how they spend their budget.

COUNCILMEMBER LOPEZ asked if any sort of calibration is required for maintenance and testing.

MR. ANDRES stated that they perform annual testing for other facilities.

MR. MCCREA stated that under the FAA, they have to flight test it in order to maintain it.

COMMISSIONER HAWLEY said that it probably costs the FAA more to maintain than to get rid of it.

MR. ANDRES stated that it is probably the reason why they want to get rid of underutilized procedures.

COMMISSIONER KRUSE said she would like to make sure it is underutilized before making a decision, and if it is going away she would like to know the timeframe in order to communicate it properly.

CHAIRMAN SPERLING said that he thinks they should strongly oppose to eliminating the VOR since it is critical for flight training within the airport. Eliminating this approach would

make the airspace more dangerous. As for the NDB approach, it does not seem like there is much room for that and it is underutilized.

COUNCILMEMBER LOPEZ stated that if the commission felt that this should be added as an action item, they should let MR. ANDRES know so that it can be added.

CHAIRMAN SPERLING asked MR. ANDRES if he felt that it should be added to the agenda or only express feedback to the FAA as the Airport Administrator.

MR. ANDRES responded that he did not see the need for this to be added to the Action Agenda. He also stated that he did an inventory with the six other airports that are considered to be Reliever Airports.

The reliever airports are the following:

- Scottsdale has 5 RNAV procedures and 2 VOR
- Deer Valley has 3 RNAV procedures and 3 GPS
- Glendale has 2 RNAV Procedures
- Goodyear has 1 RNAV Procedure
- Falcon Field has 3 RNAV Procedures
- Chandler has 1 RNAV Procedure, 1 NBD and 1 VOR

MR. ANDRES stated that in comparison to these other airports that are busier flight schools, Chandler is a quiet airport. Based on the direction, feedback and peer airports, this is the appropriate way to give them the feedback.

CHAIRMAN SPERLING stated that they are not talking about capacity and it is not causing any sort of economic harm.

COUNCILMEMBER LOPEZ asked if the FAA can come in and state that they can get rid of the VOR.

COMMISSIONER HAWLEY stated that they are not trying to get rid of the VOR, but only the approach.

CHAIRMAN SPERLING stated that they are only referring to the procedure.

MR. ANDRES stated that there were thoughts for ILS to come to Chandler and for different reasons it did not happen. If anything, they would become more like Casa Grande, exceptionally busy with minimal economic return.

MR. MCCREA stated that there was a chance for Casa Grande to lose its VOR approach and a few others. Casa Grande did negotiate to remove certain approaches and retain others.

CHAIRMAN SPERLING stated that short and long term benefits need to be considered as part of the response given to the FAA.

6. MEMBER COMMENTS/ANNOUNCEMENTS

COMMISSIONER SIEGEL said happy holidays.

COMMISSIONER KOSHIOL said Merry Christmas, Happy Hanukah.

COMMISSIONER KRUSE said none.

COUNCILMEMBER LOPEZ said happy holidays.

CHAIRMAN SPERLING said happy holidays and take care of yourselves.

7. CALENDAR

CHAIRMAN SPERLING noted that the next meeting would be held on Wednesday, January 08, 2020 at 6:30 p.m.

8. INFORMATION ITEMS

A. Airport Administrator's Report

MR. ANDRES said this is the second edition of the newsletter the goal is for it to go out monthly. They have a lot of content and they plan to distribute important aviation information.

MR. ANDRES asked if they noticed the new furniture, new tables and comfortable chairs. He thanked Marsha Reed for the new furniture.

MR. ANDRES said that they have a new commissioner that will come on board in January. This will go in front of City Council tomorrow for approval. The new commissioner is Mike Backman, a Century Link Executive. They will be fully staffed for the commissioners.

MR. ANDRES also shared that they will have phone interviews on Friday, December 13, 2019 for the Operations Technician position that is currently vacant.

11. ADJOURNMENT

The meeting was adjourned by CHAIRMAN SPERLING at 8:04 p.m.

 2/12/20  
\_\_\_\_\_  
David Sperling  
Chairman

  
\_\_\_\_\_  
Chris Andres  
Recording Secretary

/



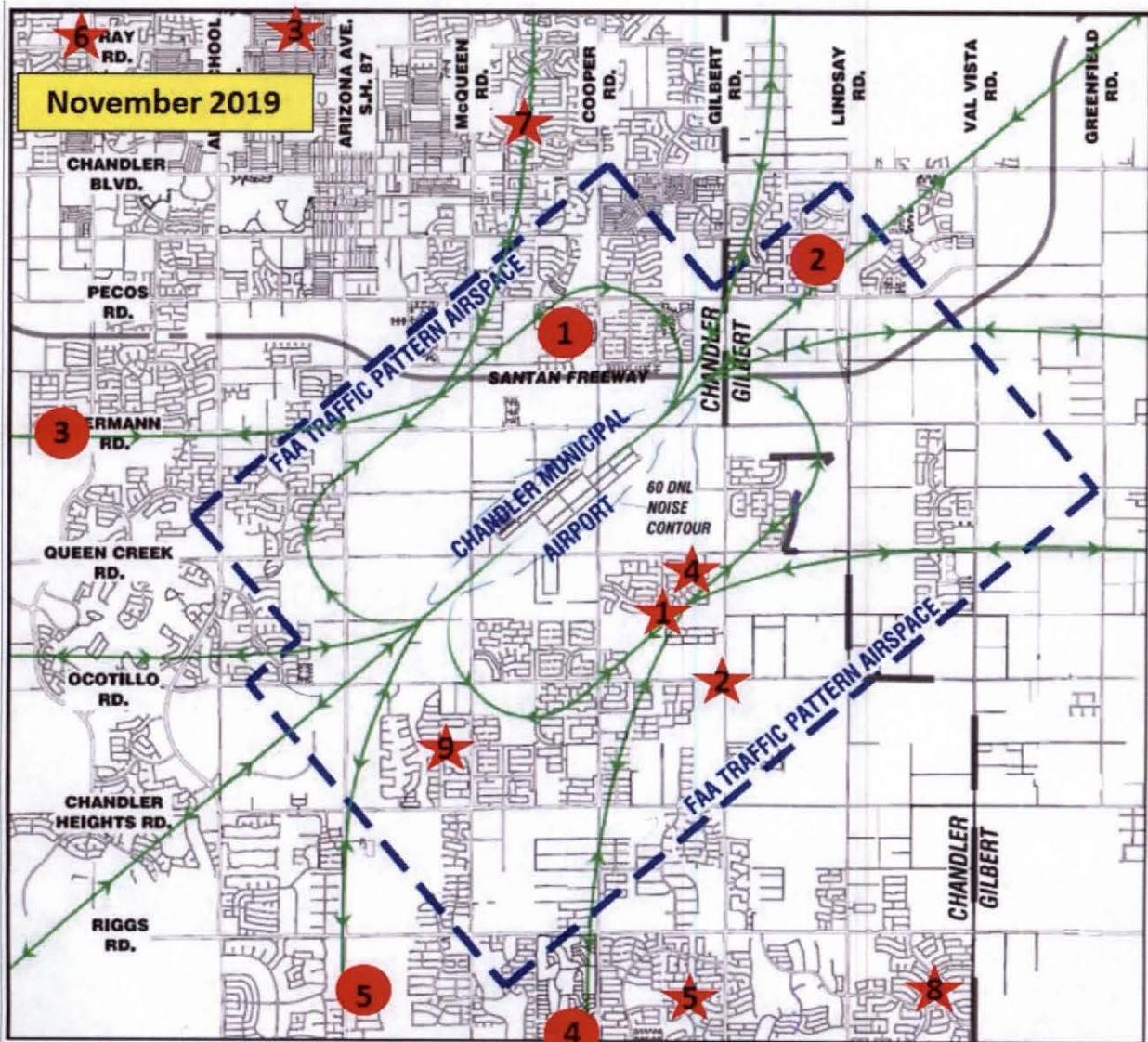
# Chandler Municipal Airport Noise Report

Meeting Date:  
December 11, 2019  
Agenda Item 5.a.

AIRCRAFT TYPE		CALL LOCATION		November 2019		November 2018		
				Households	Contacts	Households	Contacts	
Propeller	12	Chandler	14	Noise	9	11	0	2
Helicopter	4	Gilbert	1	Low Flying	2	2	0	0
Jet	0	Sun Lakes	1	Traffic	3	3	5	103
Other	0	Other	0	Other	0	0	0	0

For November 2019, fourteen households reported sixteen noise concerns. A majority of the reports were specific to noise (9), two reported perceived low-flying aircraft, and three reported increased traffic. Nine of the fourteen households making reports this month were new.

All reports were researched and no aircraft flying below or outside of established safety parameters, nor outside of the normal arrival and traffic patterns as noted by the tower or by publically available flight tracking websites. These facts were conveyed to the residents concerned.



Chemical Reaction Worksheet  
Date: \_\_\_\_\_

Reaction	Observations
1. $Zn + 2HCl \rightarrow ZnCl_2 + H_2$	Bubbles of gas evolved.
2. $Fe + 2HCl \rightarrow FeCl_2 + H_2$	Bubbles of gas evolved.
3. $2FeSO_4 \rightarrow Fe_2O_3 + 2SO_2 + O_2$	Color change from green to reddish-brown.
4. $2KClO_3 \rightarrow 2KCl + 3O_2$	Bubbles of gas evolved.
5. $2H_2O_2 \rightarrow 2H_2O + O_2$	Bubbles of gas evolved.

1. The reaction of zinc with hydrochloric acid is exothermic. The temperature of the solution increases during the reaction.

2. The reaction of iron with hydrochloric acid is exothermic. The temperature of the solution increases during the reaction.

3. The decomposition of ferrous sulfate is endothermic. The temperature of the solution decreases during the reaction.

4. The decomposition of potassium chlorate is endothermic. The temperature of the solution decreases during the reaction.

5. The decomposition of hydrogen peroxide is exothermic. The temperature of the solution increases during the reaction.

Reaction	Observations
6. $2Na + 2H_2O \rightarrow 2NaOH + H_2$	Violent reaction with evolution of gas.
7. $2K + 2H_2O \rightarrow 2KOH + H_2$	Violent reaction with evolution of gas.
8. $2Li + 2H_2O \rightarrow 2LiOH + H_2$	Violent reaction with evolution of gas.
9. $2Ca + 2H_2O \rightarrow 2Ca(OH)_2 + H_2$	Violent reaction with evolution of gas.
10. $2Mg + 2H_2O \rightarrow 2Mg(OH)_2 + H_2$	Violent reaction with evolution of gas.
11. $2Al + 6HCl \rightarrow 2AlCl_3 + 3H_2$	Bubbles of gas evolved.
12. $2Fe + 6HCl \rightarrow 2FeCl_3 + 3H_2$	Bubbles of gas evolved.
13. $2Zn + 6HCl \rightarrow 2ZnCl_2 + 3H_2$	Bubbles of gas evolved.
14. $2Mg + 2H_2O \rightarrow 2Mg(OH)_2 + H_2$	Bubbles of gas evolved.
15. $2Ca + 2H_2O \rightarrow 2Ca(OH)_2 + H_2$	Bubbles of gas evolved.
16. $2K + 2H_2O \rightarrow 2KOH + H_2$	Bubbles of gas evolved.
17. $2Na + 2H_2O \rightarrow 2NaOH + H_2$	Bubbles of gas evolved.
18. $2Li + 2H_2O \rightarrow 2LiOH + H_2$	Bubbles of gas evolved.
19. $2Ca + 2H_2O \rightarrow 2Ca(OH)_2 + H_2$	Bubbles of gas evolved.
20. $2Mg + 2H_2O \rightarrow 2Mg(OH)_2 + H_2$	Bubbles of gas evolved.