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## **ASCE October Meeting Minutes**

Speaker: John Oswald, Wichita Airport Authority – Engineering and Planning Manager

Caleb Coltrane, Garver – Aviation Leader

Topic: ICT General Aviation Apron Phase 1 Reconstruction – Site Tour

Date: Wednesday, October 4, 2023

Location: Garver

1995 Midfield Rd

Wichita, KS 67209

Wichita Dwight D. Eisenhower National Airport

2277 Eisenhower Airport Pkwy

Wichita, KS 67209

Vice President Caleb Coltrane called the meeting to order at 12:00 pm and opened with announcements.

**Announcements**

* Adopt-A-Highway clean-up will be held on October 12, 2023.
* Hands on engineering will be happening in the morning of Saturday, October 7, 2023.
* ASCE Scholarship applications will be opening by the end of October.
* STEM Grant applications will also be here by the end of October.
* Next months meeting will be November 1, 2023 at the library.

Caleb Coltrane and John Oswald began presenting on the topic.

**Presentation Notes**

The need for an improvements project at Dwight D. Eisenhower National Airport began around 2007, due to the condition of the concrete pavement. Most of the pavement was over 60 years old at the time and creating danger to the safety of the airplanes travelling landing and taking off. Concrete pavement would chip off creating Foreign Object Debris (FOD). After the opening of the new terminal in 2015, planning began. With originally allowing for 4 phases of reconstruction to allow for travel and access to remain open during the project. Upon further consideration and need to allow for more accessibility the project would end up with 18 phases spread out.

Phase 1 Reconstruction of the ICT General Aviation Apron was located on the airfield of the Dwight D. Eisenhower National Airport. Pavement condition was evaluated using the Pavement Condition Index, which the airport will conduct every 3-4 years, and the findings is what started the project.

Topics included in the project were Pavement Condition, Apron Expansion, Operation Safety, Utilities & Deicing, Construction Sequencing, Non-Standard Taxiways, Meeting FAA Standards. Pavement condition, as mentioned, was in bad shape and needed improvements. The apron, which is what the airplanes will drive through, take off, and land, needed to be expanded to meet FAA standards. The apron expansion allowed for more movement flexibility while also enabling access for all planes, including Wichita’s B-52, Doc, which has a reduced turn radius. With the apron expansion, different concrete strengths and depths were used depending on the apron’s usage. The minimum and maximum depths are 6 inches and 12 inches, respectively. The existing lights on the airfield were in good condition and new signage was added with the change in geometry to maintain operation safety. Traffic controls arise as one of the project’s biggest challenges. Air traffic maintaining it’s operations as normal as possible made for 18 phases more suitable despite the cost negatives. Surface elevations, coinciding with the pavement condition, was a big area of the project as well. On the airfield, no slopes greater than 5% are tolerated and was something that had to be considered. As the project went on surface elevations were taken and compared to the existing surface on Civil 3D. At some points along the airfield, there was a different in nearly 5 feet between the two.

**Meeting Attendees**

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| --- | --- | --- | --- | --- | --- |
| 1 | James | Armour | 18 | Brad | Haynes |
| 2 | Eric | Armstrong | 19 | Pat | Herman |
| 3 | Allison | Atkinson | 20 | Kurt | Heimerman |
| 4 | Gregory | Baalman | 21 | Omar | Jadallah |
| 5 | Scott | Bernhardt | 22 | Derek | Kratzer |
| 6 | Sangeeta | Bhattacharjee | 23 | Dakota | McKee |
| 7 | Marsha | Bishop | 24 | Aubrey | Mealiff |
| 8 | Kiley | Burris | 25 | Daniel | Mealiff |
| 9 | Caleb | Coltrane | 26 | Logan | Mills |
| 10 | Macee | Crowell | 27 | John | Oswald |
| 11 | Chuck | Daniels | 28 | Behrooz | Rahbar |
| 12 | Don | Dearmont | 29 | James | Shrimp |
| 13 | Ahmad | Farraj | 30 | Kev | Smaeili |
| 14 | Harlan | Foraker | 31 | George | Tannoury |
| 15 | Bailey | Gillespie | 32 | Reno | Villegas |
| 16 | Tracy | Grout | 33 | Lukas | Vohs |
| 17 | Abdul | Hamada | 34 | Amy | Wegner |

Meeting adjourned at 1:30 p.m.

Minutes respectfully submitted by Secretary Dakota McKee.