



TRUCKEE TAHOE AIRPORT DISTRICT STAFF REPORT

AGENDA TITLE: Flight Procedures Update

MEETING DATE: July 29, 2020

PREPARED BY: Hardy Bullock, Director of Aviation & Community Services

OBJECTIVE: Receive update from Staff and offer direction as required to complete the Truckee Tahoe Airport District 2020 Flight Procedures Redesign Initiative.

DISCUSSION:

A graphic presentation accompanies this Staff report, (FPA_JULY_2020).

Flight Procedures are Federal Aviation Administration (FAA) certified sets of detailed instructions for an aircraft operation during specified phases of flight. They determine the rough position and altitude of the aircraft as it travels over the ground in both the arrival and departure phases of flight.

Because the FAA has authority over all flight activity in the air, the TTAD is required to use a specified set of criteria to develop new procedures that allow the airport some influence over the location of arriving and departing aircraft.

The Board has directed Staff to develop two new flight procedures designed to reduce annoyance and enhance safety as well as investigate a compliment of other potential flight procedure solutions, the SIGNA Departure (DP), and the 11 (DP).

SIGNA DP flight path departs the airport westbound, turns south and roughly follows a course north of highway 80 westbound while climbing. This is called the SIGNA departure. This path will affect communities of Martis Valley Estates, Tahoe Donner, downtown Truckee, and areas of Alder Hill and Prosser Heights. Extensive outreach depicting this impact is scheduled for August, September and October of 2020. The 11 DP departs east bound, turns left and climbs

on a course east of Juniper Hills until turning northwest. This path will primarily affect the communities of Juniper Hills and Glenshire, minor effects on Prosser Lakeview may be possible.

Two primary components of any successful flight procedures initiative include **technical assessment** and **public outreach**. TTAD has retained Flight Tech Engineering to provide a comprehensive Flight Procedures Technical Assessment which includes:

1. Preparation of the Truckee Tahoe Airport Procedure Design FAA Shared Workspace to include the best available navigational and obstacle data sources.
2. Evaluation and deconfliction of current obstacle data set related to flight procedures.
3. Review existing KTRK Flight Procedures, develop potential lateral alignment and vertical guidance improvements.
4. Assess the feasibility of new Departures Procedures (DPs) for runways 11 & 29 per current Performance Based Navigation (PBN) and TERPS criteria.
5. Assess the feasibility of new Performance Based Navigation (PBN) instrument approach procedures to runways 11 & 29. This will include the use of RNP-AR and RNAV IFR procedures with 'fly visual' segments and Charted Visual Flight Procedures (CVFPs). Novel concepts, criteria deviations, waivers, and Special Procedures shall be considered as required.

The public outreach component of the Flight Procedures Initiative will be handled by Aviatrix Communications using the guidance supplied by the FAA in the approved *Community Involvement Manual*. The following principals will guide the work scheduled to begin in August of 2020:

1. Involve the Community Early
2. Establish Ongoing Communications
3. Foster Two Way Communications
4. Facilitate Two Way Participation
5. Build Trust Through Honesty and Transparency
6. Consider All Options

The presentations will take a new virtual form based on COVID restrictions. We will also employ an active chat feature as well as a specific website dedicated to the study of various flight procedure alternatives. Past TTAD community outreach related to flight procedures generated robust discussions. One primary objective is the graphic presentation of flight paths and a description of the impact those paths may have on specific neighborhoods.

Returning a compliment of summarized community response to the Board in late fall is our primary objective for this first phase of community outreach.

WHAT'S NEXT: Flight Procedures Technical Memo completion late August. Community outreach summary report late October. Board presentation and discussion late fall.

FISCAL IMPACT: \$34,815 for Flight Procedures Technical Memo and \$25,000 for Aviatrix Community Outreach. Funding is included in the 2020 Budget for this project.

PUBLIC COMMUNICATIONS: Covered through the public meeting notification system and additional virtual community outreach meetings as well as publication in various newsprint, website, e-blast and radio media channels.

ATTACHMENTS:

1. FPA_JULY_2020