

# Purpose & Need

## *Meeting FAA Design Standards and AIP Justification*

Presented to: AAND & SDAMA

By: Patricia L. Dressler,  
Environmental Protection Specialist

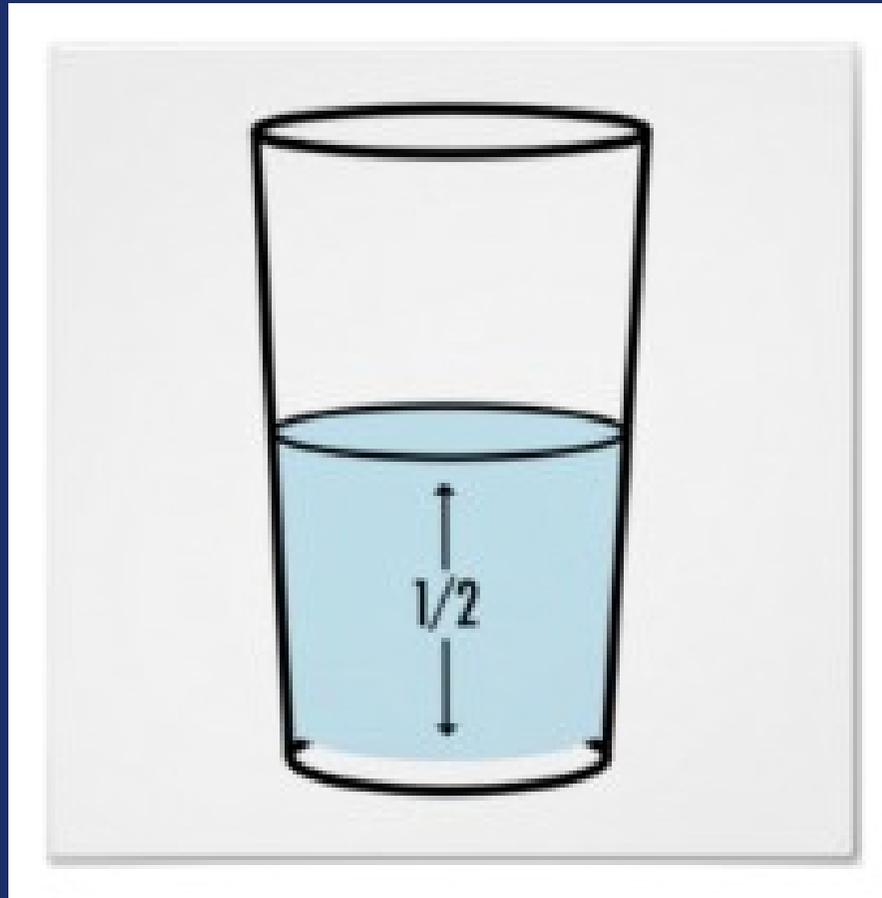
Date: 2012 Airports Fall Seminar



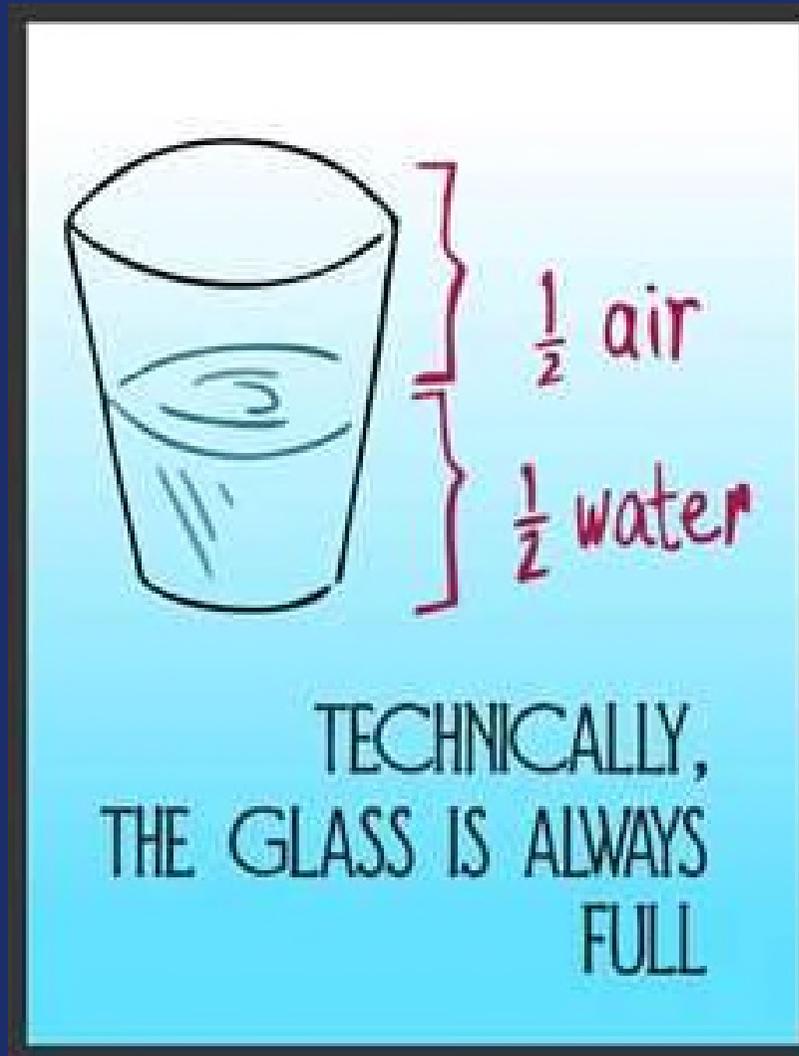
Federal Aviation  
Administration



# Is The Glass Half Full or Half Empty?



# AIRPORT CONSULTANT





TO THE OPTIMIST,  
THE GLASS IS HALF FULL.

TO THE PESSIMIST,  
THE GLASS IS HALF EMPTY.

TO THE PROJECT MANAGER,  
THE GLASS IS TWICE AS  
BIG AS IT NEEDS TO BE.

# Definition of need:

- What Design Standard is not met?
- Runway length?
- Parallel Taxiway?
- Separation standards?
- Grading?
- Hangar Area?
- Apron Area?
- Compatible Land Use Issue?
  - RPZ
  - Wildlife
  - Other?



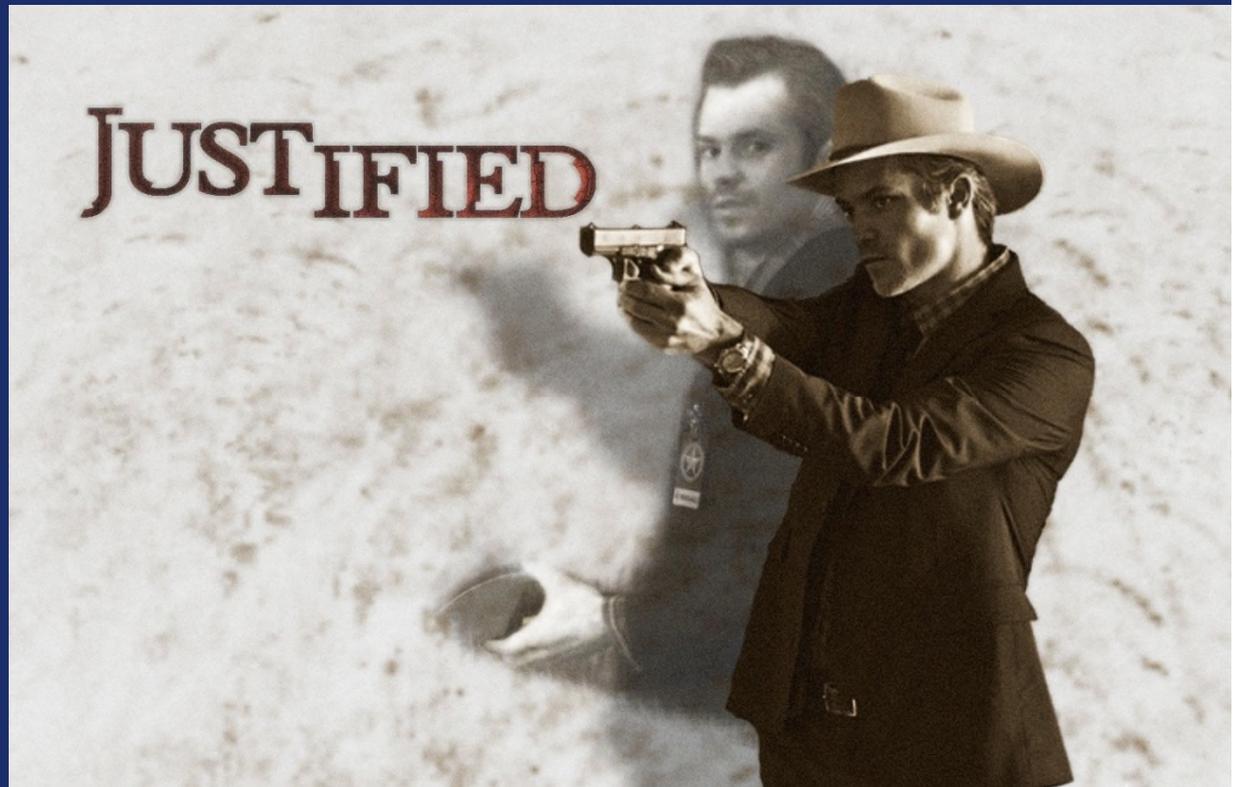
# What is not the need?

## The sponsors preferred alternative!



# Justification

- **Directly meets/supports need(s)**
- **Current**
- **Detailed**
- **Documented**
- **Substantial**



# Justification



- Operations
- Compliance Change
- Standard change
- Schedule Service
- Based Aircraft and Critical aircraft
  - N Numbers
  - ARC Category, Speed, Wingspan, etc.
  - Fuel Data
  - Haul Length

# Justification

- Letters of support from users?

NO

- Letters that show need per FAA design standards from users?

YES



# Justification

- Master Plan Forecasts
- ALP Narrative
- Terminal Area Forecast (TAF)



# JUSTIFICATION & ALP/Master Plan/Data

*If is unknown, then “Houston, we have a problem”*

## RPZ Land Acquisition=RPZ Dimension on ALP

### AIRPORT DESCRIPTION:

Fill out the following information if the proposed project includes any changes to the existing airport design

	Existing		Proposed	
Runway:				
Length:	_____	ft.	_____	ft.
Width:	_____	ft.	_____	ft.
Pavement Strength:	_____		_____	
NAVAIDS:	_____		_____	Federally Owned: Y N
Approach Minimums:	_____		_____	
Critical Aircraft (e.g. B-II) :	_____		_____	
RPZ Area:	_____		_____	

*If the airport has multiple runways, this section should be filled out for each runway.*

Remarks:

This is page 3 of 12.

Date: \_\_\_\_\_



# What is not the purpose?

## The sponsors preferred alternative!



# What is the purpose?

- **PURPOSE = SOLUTION to the PROBLEM / NEED (IDENTIFIED and JUSTIFIED)**
- **What size runway, taxiway, RPZ, approach, departure, project or “glass” is defined by the advisory circular?**



# (Justification &) Purpose & Need

## JUSTIFICATION

- Aircraft that regularly use (greater than 500 operations) the airport consist of **A100 King Air, B80 Queen Air, B90 King A** and the 4,800 foot runway is shown on an approved ALP. Data included: FBO Letters, Airport User Letters (from corporate presidents, airplane owners, air ambulance), TAF, Airport 5010, list of Aircraft N Numbers, aircraft type, category, and operations.

## NEED

- The current runway length of 3,100 feet does not provide the runway length necessary for the aircraft that regularly use the airport (critical design aircraft) of **“Small Airplanes Having 10 or more Passenger Seats** .

## PURPOSE

- **Construct a runway that is 4,800 feet** in order to **meet FAA A/C 150/5325-4B,** Runway Length Requirement for Airport Design for **“Small Airplanes Having 10 or more Passenger Seats** “.

# Questions?

