Air Transportation Technical Advisory Committee

Legislative Position
Dates of Interest

August 22, 2014 – STTC Meeting, Legislative Program Presented as Information Item

October 9, 2014 – RTC Meeting, Legislative Program Presented as Information

November 4, 2014 – General Election

November 10, 2014 – Prefiling of Legislation for the 84th Session Begins

November 13, 2014 – RTC Meeting, Legislative Program Presented as Action Item

January 13, 2015 – 84th Texas Legislature Convenes
DRAFT RTC Legislative Position for the 84th Texas Legislature

Aviation - Four Topic Areas

- Compatible Land Use
- Funding Mechanisms
- NextGen Implementation
- STEM Education
DRAFT RTC Legislative Position for the 84th Texas Legislature

Aviation

- Enhance opportunities to link transportation and land use surrounding military installations and public use airports:
  - Establish compatible land-use regulations for public-use airports to minimize the effects of urban encroachment.
  - Support legislation that promotes compatible growth that lessens the impact on military installations and provides options for cities and counties to manage growth.
  - Support legislation that provides tools that can be used at the local level to promote compatible growth around military installations and public use airports.
  - Support legislation that establishes organizational structures to accomplish objectives that are voluntary collaborations of local entities rather than top-down mandated structures.
Provide additional funding mechanisms to support airport development for public-use airports to meet future demand.

Support the safe, secure, and timely implementation of emerging technologies, such as NextGen and Unmanned Aircraft Systems (UAS), to enhance the regional air transportation system.

Provide tools that support and promote Science, Technology, Engineering, and Mathematics (STEM) through aviation and aerospace careers.
Questions/Comments
Airport Renewable Energy: PV

Air Transportation Technical Advisory Committee
NCTCOG
October 17th, 2014
Notable Airport PV Arrays

- **IND**
  - 75 acres
  - 44,000 panels
  - 12.5 megawatts

- **DIA**
  - 44.2 acres
  - 35,000 panels
  - 8 megawatts

- **PHX**
  - Rooftop
  - 16,000 panels
  - 5.4 megawatts

- **FAT**
  - 9.5 acres
  - 12,000 panels
  - 4.2 megawatts

- **CHA**
  - 4 acres
  - 4,000 panels
  - 1.1 megawatts

- **ABQ**
  - Parking canopies
  - 2,500 panels
  - 0.5 megawatts
Headlines

- ‘MSP Airport plans to build state’s largest solar power project’
  - Minneapolis Star Tribune, 10.2.2014

- ‘Tampa Electric’s solar project at TIA would be Tampa Bay’s largest’
  - Tampa Bay Times, 9.30.2014

- ‘Second solar farm slated for Indy airport’

- ‘Burlington airport to install solar panels’
Real-Time Power System Schematic

Solar Resource
23.7 W/m²

Ambient Temperature
58.7 °F

Solar Power
26.8 kW

Inverter
26.8 kW

Utility Meter

Building Load

Pollutant offset calculations based on EPA data for coal-fired power production in the USA

Last updated: October 14, 2014 - 9:00 AM
NOTE: As of October 23, 2013, the FAA is reviewing multiple sections of the "Technical Guidance for Evaluating Selected Solar Technologies on Airports" based on new information and field experience, particularly with respect to compatibility and glare. All users of this guidance are hereby notified that significant content in this document may be subject to change, and the FAA cautions users against relying solely on this document at this time. Users should refer instead to the Interim Policy (http://federalregister.gov/a/2013-24729).
Oops!

- Manchester-Boston Regional Airport
  - 2,200 panels needed to be repositioned
  - Glare affecting Air Traffic Controllers
  - $1.9M
    - $25K Airport
    - $500K FAA
    - Remainder – Design Consultant’s Insurance
Is PV right for your Airport? Perhaps….

If you can answer “Yes”
- Site is aeronautically-compatible
- Site is consistent with Master Plan
- Land lease is fair market value
- Project meets preliminary environmental screening
- Project is on existing structure
- FAA approves change to ALP
- Qualify as Catex

If the answer is “No”
- Communications interference
- Penetrate airspace
- Reflectivity concerns

http://www.faa.gov/airports/eastern/airports_news_events/hershey/media_11/session_e/e4solarpanels.ppt
Thank You!

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NCTCOG Solar Ready II Project

Air Transportation Technical Advisory Committee
October 17, 2014

Lori Clark
Principal Air Quality Planner

North Central Texas Council of Governments
U.S. Department of Energy SunShot Initiative Rooftop Solar Challenge
The U.S. Department of Energy SunShot Initiative is a collaborative national effort that aggressively drives innovation to make solar energy fully cost-competitive with traditional energy sources before the end of the decade.

Through SunShot, the DOE supports efforts by private companies, academia, and national laboratories to drive down the cost of solar electricity to $0.06 per kilowatt-hour.
U.S. Department of Energy
SunShot Initiative
Rooftop Solar Challenge

The U.S. Department of Energy SunShot Initiative Rooftop Solar Challenge incentivizes regional awardee teams to make it easier and more affordable for Americans to go solar.

By streamlining permit processes, updating planning and zoning codes, improving standards for connecting solar power to the electric grid, and increasing access to financing, teams will clear a path for rapid expansion of solar energy and serve as models for other communities across the nation.
Solar Ready II

Partnering with Mid-America Regional Council (MARC), National Association of Regional Councils (NARC), Meister Consultants Group (MCG), and Council of State Governments (CSG)

Goals are to implement solar best management practices, training materials and methods, and other proven implementation strategies previously established by MARC’s 2012 Solar Ready KC Initiative

Ultimately will result in more streamlined and standardized solar practices, and will achieve measurable improvements in solar market conditions and access for ten million people across the US
Local Participation to Date
Survey of Dallas-Fort Worth Area Installers:
Which soft cost areas create the most difficult barriers?

- Lack of Incentives: 9
- Utility Support: 6
- Lack of Education/Info: 8
- Permitting: 8
- Local Government Opportunity: 9
- Financing: 7
- Zoning: 1
- Labor Cost: 0
- Other: 1
Best Management Practices (BMPs)

Planning Improvements
- Zoning Code Improvements
- Enable Solar Access
- Building Code Improvements

Process Improvements
- Streamline Permits
- Standardize Permit Fees
- Pre-Qualify Plans and Installers

Financing Improvements
- Engage Local Lenders
- Enact a Solarize Campaign
Process Improvements: Top BMP Choices

Streamline Permits
• Develop criteria for expedited process
• Create a permit checklist
• Provide a central information source

Standardize Permit Fees
• Fixed fees for residential permits
• Calculator for commercial permits

Pre-Qualify Plans and Installers
• Pre-qualify installers
• Pre-qualify electrical plans

Permitting and Education Opportunities
Solar Examples in Dallas-Fort Worth

Irving - West Library
Keller ISD
McKinney
Irving - Street Lights

NCTCOG Solar Ready II Project Video

www.youtube.com/watch?v=jKzkSczvjgA&list=TL5ruryHuXjFdDCenUr-2WzbS--PscZAEw
Plano Solar Advocates - Solarize Plano
2013-2014 Results

<table>
<thead>
<tr>
<th>Measure</th>
<th>Target</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013 Total Initial Enrollment</td>
<td>20</td>
<td>200+</td>
</tr>
<tr>
<td>Contracts Signed Between Installer and Enrollees</td>
<td></td>
<td>226.8 kW 45 sites</td>
</tr>
</tbody>
</table>

Solar Installer Pleased With 2013 Contract Closure Rate > 45%

Overall Results Consistent with Other Communities’ “First” Solarize Programs

Plano Solar Advocates Mission – Increase Awareness!

Approximately Equal to CO₂ Emissions From:

railcars worth of coal burned

Or Carbon Sequestered by:

acres of U.S. forests in one year

1.3

195
Next Steps

Permitting and Zoning Workshop – October 21, 2014, 9-3:45

Finalize “Regional” Permit Checklist

Request Local Government Commitments and Adoption of Permit Checklist

Develop Centralized Website Resource
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www.eere.energy.gov/solarchallenge/index.html

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Texas Airports Council

Update
Annual ATTAC Goals

2014 Progress Update
ATTAC Workshop: UAS Model Ordinance

• Public outreach
  – Schedule additional workshops
    Include stakeholders with alternate viewpoints
  – Provide general information and educational materials

• Documentation
  – Draft report with items such as definitions, sample ordinances, general literature review, etc.

• Consider types of insurance, licensing, and/or permit requirements

• Share link on NCTCOG UAS webpage
  www.nctcog.org/uas
NBAA2014
October 21-23, 2014 – Orlando, Florida

For more information:  www.nbaa.org/events/bace/2014/
Airport Updates

• Addison Airport
• Dallas Love Field
• Fort Worth Meacham Airport
• North Texas Regional
Addison Airport
Wright Amendment Lifted – October 13

• “Air traffic at the airport is expected to nearly double now that the Wright Amendment has expired.”

• Dallas invested more than $500 million to build a new terminal

Source: WFAA

“However, with the new [airline] schedules, the new projections, as we get closer we’re revising that up to over 6 million enplanements, almost a 50 percent increase of passengers at Love Field,” Duebner said.
Air traffic at the airport is expected to nearly double now that the Wright Amendment has expired.

Dallas invested more than $500 million to build a new terminal.

Source: WFAA

Wright Amendment Lifted – October 13

However, with the new airline schedules, the new projections, as we get closer we’re revising that up to over 6 million enplanements, almost a 50 percent increase of passengers at Love Field,
Fort Worth Meacham – New American Aero Aero Hangar
Fort Worth Meacham – New Bell Corporate Hangar
Fort Worth Meacham – New Texas Jet Hangar
Fort Worth Meacham – New 44S Hangar
Fort Worth Meacham – New E36 Spray Rig
Fort Worth Meacham – 17/35 Overlay
North Texas Regional – Land Use Zoning Regulation

- Process started four years ago
- Approved August 27, 2014