



TDOT

Department of
Transportation

Engineering Update and ACIP Guidance

John-Paul Saalwaechter, P.E. - Civil Engineering Manager

About Me...

- Kentucky Native
- B.S. in Civil Engineering from WKU/UK
- M.S. in Civil Engineering from UT-K
- 8 years in TDOT's HQ Construction Office
- Joined the Aeronautics Division in May



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What to Expect from Me

- Inquisitive,
- Data-driven,
- Objective and scientific,
- Fair and level-headed,
- Will seek to balance the needs and interest of the State as a whole

The Importance of Project Close Out

Upon physical completion of work, all close out requirements in the grant agreement must be performed in a timely manner.

Disbursement Reconciliation and Close Out The Grantee shall submit any final invoice and a grant disbursement reconciliation report within sixty (60) days of the Grant Contract end date and in form and substance acceptable to the State.

Generally, the closeout process addresses these areas:

- Physical completion of work
- Administrative requirements for close out
- Financial requirements for closeout

Requirements vary based on scope of work.

Project Close Out

of work, all close out
agreement must be
er.

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ccess addresses these areas:

work

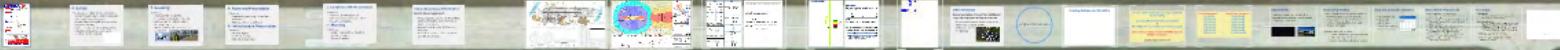
ents for close out

for closeout



Airport Capital Improvement Plans (ACIPs)

6



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Engineering Update and ACIP Guidance

✈ Re-think ACIPs ✈

TN

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A shift from *Wishlist* to Needs-based approach



Purpose

Airport Capital Improvement Plans (ACIPs) are the primary planning tools for each airport for systematically identifying, prioritizing, and assigning funds to critical airport development and associated capital needs.



Guidelines



Base your ACIP on your approved ALP.



Well thought-out: realistic, reasonable, and locally funded.



Prioritize (be strategic).



Revenue producing projects will not be a priority if you have existing safety/preservation (e.g., pavement maintenance) concerns.



1st year projects must include the month/TAC meeting in which they will be requested.



Helpful Resources

- ALP
- Safety inspection reports,
- Pavement condition surveys,
- Airport master/system plans,
- Joint planning conferences,
- Airport master record data,
- Etc. to determine needs.

1
2



State Priority Ranking

1. Safety
2. Security
3. Pavement Preservation/Maintenance
4. Preservation of Infrastructure
5. Compliance with current FAA Standards
6. Planning
7. Increase Capacity/Modernization
8. Equipment
9. Landside Improvements
10. Revenue Producing



Process

- Before ACIP Meeting:**
1. Start by identifying all safety/security/preservation concerns and continue assessing needs based on priority rankings.
 2. Draft your ACIP and discuss with Consultant and TAD staff.
 3. Attend ACIP Meetings.

- After ACIP Meeting:**
4. Edit/revise your ACIP drafts based on information gained in ACIP meeting.
 5. Conduct working sessions* to finalize ACIP and enter projects into BlackCat.

*including all stakeholders: Sponsor, TAD personnel, Consultant, etc.



Deliverable & Deadline

- A needs-based 5 year plan, or ACIP, of the potential planning and development projects, and equipment purchases.
- All ACIP projects entered into BlackCat by **12/01/2017**

Remember: Projects must be on ACIPs to get approved!





Re-think ACIPs



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Safety

Project scopes including, but not limited to:

- Foreign Object Debris (FOD) Management,
- Reducing Runway Incursions,
- Runway Safety Area (RSA) improvement,
- Signs and Marking,
- Aircraft Rescue and Fire Fighting (ARFF),
- Obstruction Clearance, Land acq. &
- Wildlife Hazard Mitigation.



Figure 1. Number of reported wildlife strikes to civil aircraft and number of strikes with reported damage (top) and % of reported strikes indicating damage (bottom), 1990–2013 (see Table 1).



Security

Examples:

- Access Control Equipment,
- Passenger and baggage screening,
- Airfield security fencing or gates,
- Ramp lighting, &
- Airport security video cameras and equipment.





Pavement Preservation

Examples:

- Crack sealing, patching, and surface treatments.
- Major pavement rehabilitation



Infrastructure Preservation

Examples:

- Building Repairs
- Tower repainting
- Culvert/drainage repair



Compliance with FAA Standards

Examples:

- Runway-Taxiway Separation
- Reconstruct connector geometries
- Pavement gradients



Planning

Examples:

- Airport Layout Plan (ALP) update
- Exhibit "A" Update
- Surveys & studies

How is this process different now?

Needs-based approach...

- Project classification and priority ranking/rating is secondary to determining the needs of the airport.
- Local match may be the limiting factor each year.
- Available references used to create an objective list of needs.

| Elevation Height | Description |
|------------------|-------------|
| 121.352 | PACS/CBN |
| 109.562 | SACS/CBN |
| 120.812 | SACS |

| LEGEND | | |
|---|----------|----------|
| DESCRIPTION | EXISTING | ULTIMATE |
| RUNWAY CENTERLINE | | |
| RUNWAY SAFETY AREA (RSA) | | |
| RUNWAY OBJECT FREE AREA (ROFA) | | |
| RUNWAY PROTECTION ZONE (RPZ) | | |
| TAXIWAY OBJECT FREE ZONE (TOFA) | | |
| BUILDING RESTRICTION LINE (BRL) | | |
| LOCALIZER/GLIDESLOPE CRITICAL AREA | | |
| AWOS CRITICAL AREA | | |
| THRESHOLD LIGHTS | | |
| REILS | | |
| PAPI | | |
| Runway/Taxiway Light | | |
| Windsock | | |
| MALSAR | | |
| Rotating Beacon | | |
| Airport Reference Point | | |
| Paved Runway Surface | | |
| Paved Taxiway Surface | | |
| Paved Apron Surface | | |
| Roads | | |
| On Airport Parking | | |
| Off Airport Parking | | |
| Airport Buildings | | |
| Other Buildings | | |
| Building Identification Number | | |
| Airport Property Line / Easements | | |
| Other Property Lines | | |
| TERPS Glideslope Qualification Surfaces | | |
| Railroad | | |
| Fence | | |
| Tree Line | | |
| Water/Wetland | | |
| Ground Elevations Contours | | |
| Surface Elevation | | |

| DECLARED DISTANCES - EXISTING & FUTURE | | | | |
|--|--------|--------|--------|--------|
| RUNWAY | TORA | TOGA | ASDA | LDA |
| RUNWAY 2 | 6,001' | 6,001' | 6,001' | 6,001' |
| RUNWAY 20 | 6,001' | 6,001' | 6,001' | 6,001' |

| EXISTING CONDITIONS | | |
|---------------------|------------------------|----------------|
| # | EXISTING FACILITY NAME | TOP EL. (AMSL) |
| 1 | EXISTING FACILITY NAME | TOP EL. (AMSL) |
| 2 | FBO TERMINAL BUILDING | 490' |
| 3 | CORPORATE HANGAR | 502' |
| 4 | CORPORATE HANGAR | 514' |
| 5 | CORPORATE HANGAR | 506' |
| 6 | BOX HANGAR | 498' |
| 7 | T-HANGAR | 495' |
| 8 | T-HANGAR | 489' |
| 9 | T-HANGAR | 494' |
| 10 | T-HANGAR | 493' |
| 11 | T-HANGAR | 493' |
| 12 | T-HANGAR | 491' |
| 13 | T-HANGAR | 492' |
| 14 | T-HANGAR | 493' |
| 15 | T-HANGAR | 490' |
| 16 | T-HANGAR | 493' |
| 17 | T-HANGAR | 488' |
| 18 | BOX HANGAR | 502' |
| 19 | BOX HANGAR | 500' |
| 20 | T-HANGAR | 492' |
| 21 | T-HANGAR | 488' |
| 22 | T-HANGAR | 491' |
| 23 | T-HANGAR | 481' |
| 24 | T-HANGAR | 483' |
| 25 | LOCALIZER BUILDING | 459' |
| | GLIDE SLOPE BUILDING | 497' |

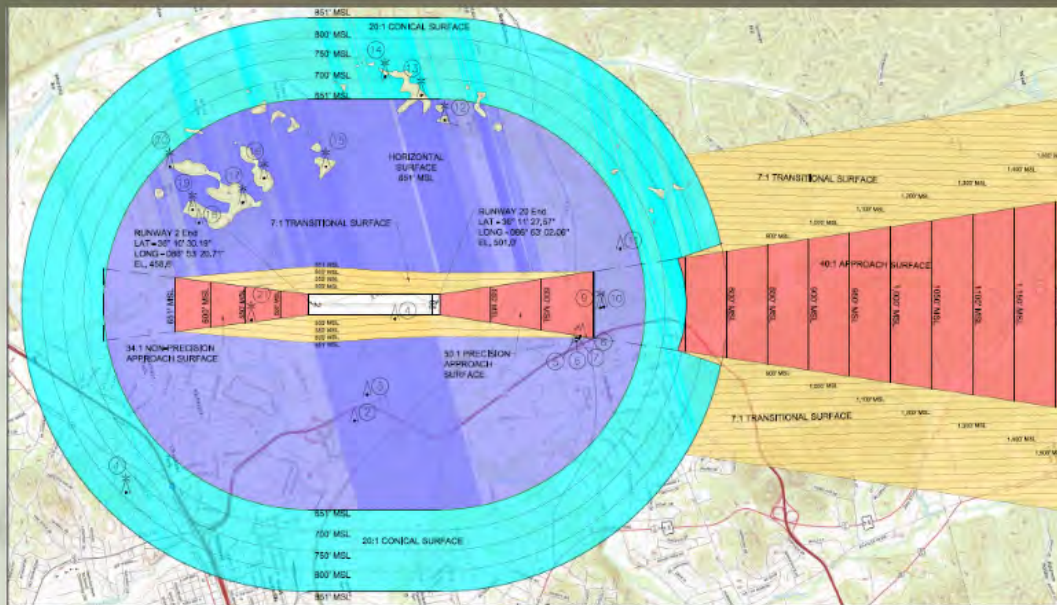
| ULTIMATE FACILITIES | | |
|---------------------|---------------------------|------|
| A | ULTIMATE FACILITIES | |
| B | BOX HANGAR | 499' |
| C | T-HANGAR | 490' |
| D | CORPORATE HANGAR | 505' |
| E | MHA ADMIN. & MAINT. BLDG. | 501' |
| F | CORPORATE HANGAR | 490' |
| G | FBO TERMINAL BUILDING | 480' |
| H | CORPORATE HANGAR | 486' |
| I | CORPORATE HANGAR | 498' |

HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

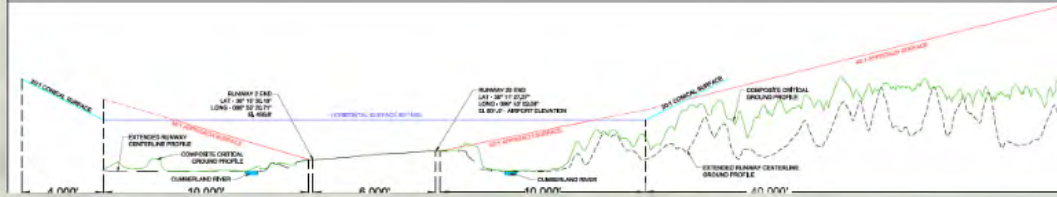
| AIRPORT DATA | | |
|--------------|------------------------------------|------------------------------------|
| | EXISTING | FUTURE |
| | C-II | C-II |
| | 89.3 | N/A |
| | 501.0' | 501.0' |
| | BEACON, GPS, ILS | |
| | 36-10-58.8786N | 36-10-58.8786N |
| | 086-53-11.3837W | 086-53-11.3837W |
| | TAXIWAY LIGHTING, AWOS, WIND CONIF | TAXIWAY LIGHTING, AWOS, WIND CONIF |



Airport Layout Plan - Part 77 Airspace



■ HORIZONTAL SURFACE
 ■ CONICAL SURFACE
 ■ TRANSITIONAL SURFACE
 ■ APPROACH SURFACE



A. UTILITY PLACEMENT
 B. VISIBILITY MINIMUM GREATER THAN 30 METERS
 C. VISIBILITY MINIMUM 30 METERS OR LESS
 D. PRECISION APPROACH SURFACE
 E. NON-PRECISION APPROACH SURFACE
 F. VISUAL CLER FOR PRECISION APPROACH SURFACE
 G. VISUAL CLER FOR NON-PRECISION APPROACH SURFACE

| DIM | ITEM | DIMENSIONAL STANDARDS (FEET) | | | |
|-----|--------------------------------------|------------------------------|---------------|-----------|---------------|
| | | PRECISION | NON-PRECISION | PRECISION | NON-PRECISION |
| A | APPROACH SURFACE WIDTH | 100 | 100 | 100 | 100 |
| B | WIDTH OF TRANSITIONAL SURFACE | 100 | 100 | 100 | 100 |
| C | APPROACH SURFACE SLOPE | 1:20 | 1:20 | 1:20 | 1:20 |
| D | PRECISION APPROACH SURFACE SLOPE | 1:20 | 1:20 | 1:20 | 1:20 |
| E | NON-PRECISION APPROACH SURFACE SLOPE | 1:20 | 1:20 | 1:20 | 1:20 |

LEGEND

■ Obstruction (Below 1,000' AGL)
■ Multiple Obstructions
■ Multiple Obstructions with High Intensity Lights (May Operate Part-time)

OBSTRUCTION DATA TABLE

| ITEM | TYPE | CLASS | HEIGHT (AGL) | IDENTIFICATION | STATUS | REMARKS |
|------|------|-------------|--------------|----------------|--------|---------|
| 1 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 2 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 3 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 4 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 5 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 6 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 7 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 8 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 9 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 10 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 11 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 12 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 13 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 14 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 15 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 16 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 17 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 18 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 19 | T-1 | Obstruction | 100 | 100 | 100 | 100 |
| 20 | T-1 | Obstruction | 100 | 100 | 100 | 100 |

Inspe

Runway 02 / 20

Surface: ASPHALT

Markings: ESC

RWY #

Cracking: Minor

Markings: Faded

Seal needed:

Durability:

Fill Material:

Preventive Maintenance:

Remarks: Preventive

Construction: Through

Is the airfield open:

Surface Condition: Cracked

Markings:

Corrective Signage:

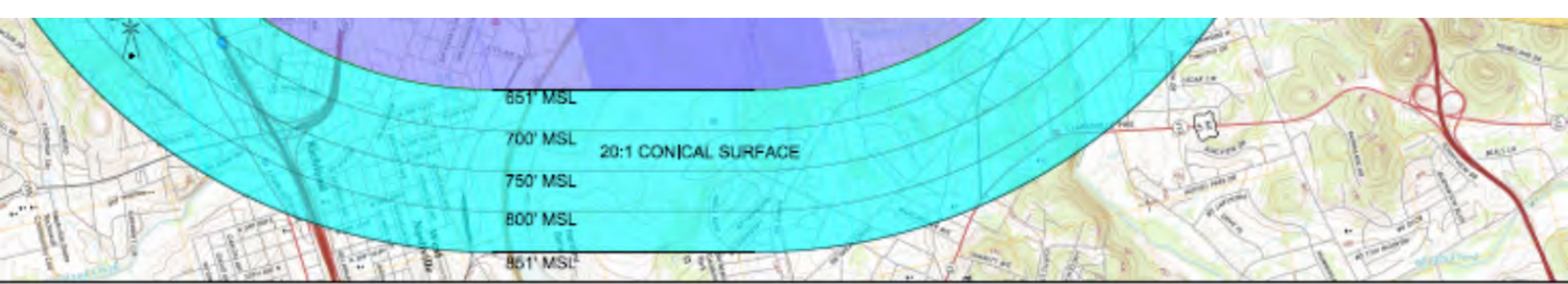
Remarks: Low priority

Is the airfield open:

Surface Condition: Cracked

Markings:

Taxi/Drive Canal:



Inspection Report

| RUNWAY | | PART 77 | |
|--|---|---|--|
| Rwy # <u>02 / 20</u> | Length: <u>4,001</u> Width: <u>75</u> | Rwy End: <u>02</u> | Rwy End: <u>20</u> |
| Surface: <u>ASPHALT</u> | Condition: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor | Category: <u>A(NP)</u> | Category: <u>AV</u> |
| Markings Type: <u>BSC - F</u> | Condition: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor | Approach Slope Violation: <input type="checkbox"/> 20:1 <input type="checkbox"/> 34:1 <input type="checkbox"/> None | Approach Slope Violation: <input type="checkbox"/> 20:1 <input type="checkbox"/> 34:1 <input type="checkbox"/> None |
| RWY # <u>02</u> | Rwy # <u>20</u> | Remarks: | |
| Cracking: <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Extensive | Cracking: <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Extensive | | |
| Markings: <input type="checkbox"/> Faded <input checked="" type="checkbox"/> Peeling | Markings: <input type="checkbox"/> Faded <input checked="" type="checkbox"/> Peeling | | |
| Seal Needed: <input checked="" type="checkbox"/> | Seal Needed: <input checked="" type="checkbox"/> | | |
| Debris: <input checked="" type="checkbox"/> | Debris: <input checked="" type="checkbox"/> | | |
| Fill Material: <input checked="" type="checkbox"/> | Fill Material: <input checked="" type="checkbox"/> | | |
| Pavement Issues: <input checked="" type="checkbox"/> | Pavement Issues: <input checked="" type="checkbox"/> | | |
| Remarks: Pavement needs seal coat and crack filling to prevent future damage. | | | |
| Grass growing through cracks in runway pavement. Debris on runway from previous crack fill and markings coming loose creating a FOD hazard. Fill needed adjacent to RW pavement. | | | |
| TAXIWAYS | | LIGHTING | |
| Surface Condition: <input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor | Cracking: <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Extensive | Rwy Lighting: <input type="checkbox"/> LDR <input checked="" type="checkbox"/> MRL <input type="checkbox"/> HRL <input type="checkbox"/> None | Threshold Lights Correct: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NSTD |
| Markings: <input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor | Correct Signage: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Rotating Beacon Operational: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None | Lighting Control: <input type="checkbox"/> Pilot <input checked="" type="checkbox"/> Part <input checked="" type="checkbox"/> Repair |
| Remarks: Taxiway needs seal coat and crack fill to prevent further damage. Markings are faded. | | Lighting Control: <input type="checkbox"/> Pilot <input checked="" type="checkbox"/> Part <input checked="" type="checkbox"/> Repair | |
| APRON/RAMP | | NAVAIDS | |
| Surface Condition: <input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor | Cracking: <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Extensive | Windcone: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Lighted | Segmented Circles: <input type="checkbox"/> Replace <input type="checkbox"/> Repair Support |
| Markings: <input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor | Fill Material: <input type="checkbox"/> Faded <input type="checkbox"/> Peeling | Segmented Circles: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Segmented Circles: <input type="checkbox"/> Paint <input type="checkbox"/> Repair |
| Tile Drain Cond: <input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor | | INFRASTRUCTURE | |
| | | Hangars: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor | Security: <input checked="" type="checkbox"/> Gate <input type="checkbox"/> Cameras <input type="checkbox"/> None |
| | | Fire Extinguishers: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Emergency Shutoff properly located: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | At fuel farm: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | | Fence: <u>6</u> ft. tall <input type="checkbox"/> All <input checked="" type="checkbox"/> Partial | Mowing of airport: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Poor |
| | | Terminal Building Condition: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Poor | Title VI Poster located: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| | | Emergency Preparedness Manual: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |

SECTION ONE VIOLATIONS, STATE REQUIRED CORRECTIONS:

Large hole located adjacent to RW2 in RSA approximately halfway down runway 20 on left side. Hole is approximately 2ft x 1.5ft and growing. The pavement is starting to sag and collapse at the edge of the runway due to continued erosion and growth of the hole. It appears to be related to drainage which runs under the runway from the right side and is beginning to create a similar problem on the right side adjacent to the pavement.

SECTION TWO VIOLATIONS, STATE RECOMMENDED CORRECTIONS:

Pavement needs seal coat and crack filling to prevent future damage. Grass growing through cracks in runway pavement and markings. Debris on runway from previous crack fill and markings coming loose creating a FOD hazard. Fill needed adjacent to RW pavement in addition to hole mentioned above.

Bulbs were out on VASI on RW 20.

Much silt noted on Fuel Farm. Recommend maintenance to restore and prevent further deterioration.

Beacon support needs painting.

Attached License Type: License Conditional

Tennessee Code Annotated (subparagraph 42-2-211 Licensing of Airports) notes that "it is unlawful for any municipality, or officer, or employee, or any person to operate an airport without an appropriate license for such, as may be duly required by rule or regulations issued pursuant to this subsection."

Furthermore, rules and regulations of the Tennessee Department of Transportation regarding the licensing of airports note that communities must apply for and hold a current public airport license when any commercial aeronautical activities are conducted on the airport.

Inspector: W.R.

Signature of the State Representative
Responsible for the Inspection
Date: 8/9/2017

Date: 8/9/2017

Surface: ASPHALT Condition: Good Fair Poor

Category: A(NP)

Markings Type: BSC - F Condition: Good Fair Poor

Approach Slope Violation:

20:1 34:1 None

Rwy # 02

Rwy # 20

Cracking: Minor Extensive

Cracking: Minor Extensive

Remarks: _____

Markings: Faded Peeling

Markings: Faded Peeling

Seal Needed:

Seal Needed:

Debris:

Debris:

Fill Material:

Fill Material:

Pavement Issue:

Pavement Issue:

Remarks: Pavement needs seal coat and crack filling to prevent future damage.

Grass growing through cracks in runway pavement. Debris on runway from previous crack filler and markings coming loose creating a FOD hazard. Fill needed adjacent to RW pavement.

LIG

Rwy Lighting:

Threshold Lights Correct:

Rotating Beacon Operational:

Lighting Control:

NA

Windcone:

TAXIWAYS

Lighting Control:

Remarks: Pavement needs seal coat and crack filling to prevent future damage.

Grass growing through cracks in runway pavement. Debris on runway from previous crack filler and markings coming loose creating a FOD hazard. Fill needed adjacent to RW pavement.

Windcone:

TAXIWAYS

Segmented Circle:

Surface Condition: Good Fair Poor

Cracking: Minor Extensive

Markings: Good Fair Poor

Faded Peeling

Correct Signage: Yes No

Hangars:

Security:

Remarks: Taxiway needs seal coat and crack fill to prevent further damage. Markings are faded.

Fire Extinguishers:

At fuel farm

APRON/RAMP

Emergency Shutoff

Surface Condition: Good Fair Poor

Fence: 6 ft tall



20

Minor Extensive

Faded Peeling

ie:

ent future damage.

n runway from previous

led adjacent to RW pavement.

Remarks: _____

LIGHTING

Rwy Lighting: LIRL MIRL HIRL None

Threshold Lights Correct: Yes No NSTD

Rotating Beacon Operational: Yes No None

Lighting Control: Pilot Part Repair Photocell Manual

NAVAIDS

Windcone: Yes No Lighted

Replace Repair Support

Segmented Circle: Yes No



None

SECTION ONE VIOLATIONS, STATE REQUIRED CORRECTIONS:

Large hole located adjacent to RW in RSA approximately halfway down runway 20 on left side. Hole is approximately 2ftx1ftx1.5ft and growing. The pavement is starting to sag and collapse at the edge of the runway due to continued erosion and growth of the hole. It appears to be related to drainage which runs under the runway from the right side and is beginning to create a similar problem on the right side adjacent to the pavement.

SECTION TWO VIOLATIONS, STATE RECOMMENDED CORRECTIONS: Recommend approach study and tree trimming on RW 2 for potential obstructions.

Pavement needs seal coat and crack filling to prevent future damage. Grass growing through cracks in runway pavement and markings. Debris on runway from previous crack filler and markings coming loose creating a FOD hazard. Fill needed adjacent to RW pavement in addition to hole mentioned above.

Bulbs were out on VASI on RW 20.

Much corrosion noted on Fuel Farm. Recommend maintenance to restore and prevent further deterioration.

Beacon support needs painting.

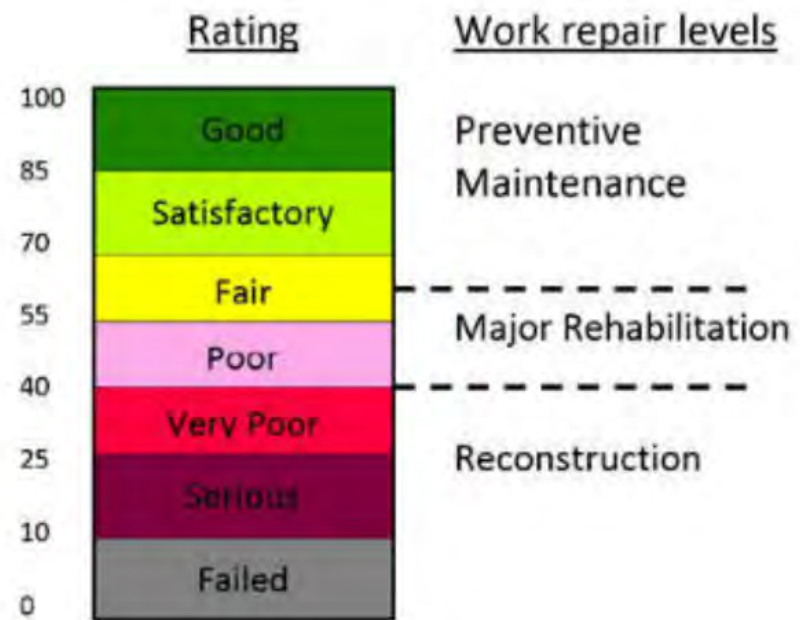
None

Attached License Type: License Conditional

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Capital Improvement Program

The table below provides a summary of the projected funds needed to perform major rehabilitation on all pavement sections forecasted to fall below the MSL within the next 5 years. The PCI of one apron section is programmed for repair while it is slightly above the apron MSL of 55. If no action is taken, the overall PCI is projected to drop from 83 to 76 by 2019.

| Project Year | Calendar Year | Amount |
|---------------------|---------------|------------------|
| Year 1 | 2015 | - |
| Year 2 | 2016 | - |
| Year 3 | 2017 | - |
| Year 4 | 2018 | \$235,321 |
| Year 5 | 2019 | - |
| 5-Year Total | | \$235,321 |

Maintenance

Based on the pavement distress types documented during the survey, an analysis of potential maintenance projects identified minimal patching needs and approximately 760 linear feet of crack sealing and crack repair needs, at an estimated total cost of approximately \$1,400. The decision matrix and unit costs upon which these estimates are based is described in section 3 of this report.

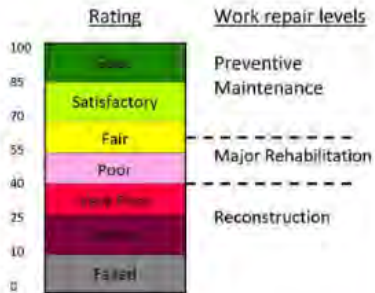
Ongoing development of capital improvement projects may address some of these maintenance needs. To help budgeting and prevent duplication of effort, all pavement features recommended for maintenance should be compared to planned improvements prior to finalizing a maintenance program strategy.

Specific recommendations to help prioritize airfield maintenance are found in chapter 3 of this report. The table below summarizes the identified maintenance needs.

| Work Item | Quantity | Unit | Cost |
|-----------------------|----------|------|----------------|
| Crack Sealing – AC | 761 | L.F. | \$1,308 |
| Patching – AC Shallow | 14 | S.F. | \$72 |
| Total: | | | \$1,380 |

AC = asphalt concrete; PCC = portland cement concrete; S.F. = square feet; L.F. = linear feet

¹Surface treatment quantities and costs are typically underestimated by PAVER because they are only applied to areas of medium- and high-severity weathering/raveling



Capital Improvement Program

The table below provides a summary of the projected funds needed to perform major rehabilitation on all pavement sections forecasted to fall below the MSL within the next 5 years. The PCI of one apron section is programmed for repair while it is slightly above the apron MSL of 55. If no action is taken, the overall PCI is projected to drop from 83 to 76 by 2019.

| Project Year | Calendar Year | Amount |
|---------------------|---------------|------------------|
| Year 1 | 2015 | - |
| Year 2 | 2016 | - |
| Year 3 | 2017 | - |
| Year 4 | 2018 | \$235,321 |
| Year 5 | 2019 | - |
| 5-Year Total | | \$235,321 |

Maintenance

Based on the pavement distress types documented during the survey, an analysis of potential maintenance projects identified minimal patching needs and approximately 760 linear feet of crack sealing and crack repair needs, at an estimated total cost of approximately \$1,400. The decision matrix and unit costs upon which these estimates are based is described in section 3 of this report.

Airport Master Record



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

AIRPORT MASTER RECORD

PRINT DATE: 8/31/2017
AFD EFF 08/17/2017
FORM APPROVED OMB 2120-0015

> 1 ASSOC CITY: 4 STATE: TN LOC ID: 6001
> 2 AIRPORT NAME: 5 COUNT: TN
> 3 CBD TO AIRPORT (NM): 6 REGION/ADO: ASOMEM 7 SECT AERO CHT: ST LOUIS FAA SITE NR: 23122 1A

| GENERAL | SERVICES | BASED AIRCRAFT |
|---------------------------|--|--------------------|
| > 10 OWNERSHIP: PUBLIC | > 70 FUEL: 100LL A+ | 90 SINGLE ENG. 111 |
| > 11 OWNER: | > 71 AIRFRAME RPRS: MAJOR | 91 MULTI ENG: 24 |
| > 12 ADDRESS: | > 72 PWR PLANT RPRS: MAJOR | 92 JET: 11 |
| > 13 PHONE NR: | > 73 BOTTLE OXYGEN: HIGH | TOTAL: 145 |
| > 14 MANAGER: | > 74 BULK OXYGEN: LOW | 93 HELICOPTERS: 10 |
| > 15 ADDRESS: | > 75 TSNT STORAGE: HGR TIE | 94 GLIDERS: 0 |
| > 16 PHONE NR: | > 76 OTHER SERVICES: AVNCS, CHTR, INSTR, RNTL, SALES | 95 MILITARY: 0 |
| > 17 ATTENDANCE SCHEDULE: | | 98 ULTRA-LIGHT: 0 |
| ALL ALL ALL | | |

18 AIRPORT USE: PUBLIC
19 ARPT LAT: 36-10-58.0786N ESTIMATED
20 ARPT LONG: 86-53-11.3832W
21 ARPT ELEV: 501.0 SURVEYED
22 ACREAGE: 374
23 RIGHT TRAFFIC: 20
24 NON-COMM LANDING: NO
25 UNCLASSIFIED ACREMENTS: NGY

> 26 FAR 139 INDEX:
RUNWAY DATA
> 30 RUNWAY IDENT: 02/20
> 31 LENGTH: 6,001
> 32 WIDTH: 100
> 33 SURF TYPE-COND: ASPH-G
> 34 SURF TREATMENT:
35 GROSS WT: 5 35.0
36 (IN THSDS): 0 69.0
37 2D
38 2D/2D2

> 39 PCN:
LIGHTING/APCH AIDS
> 40 EDGE INTENSITY:
> 42 RWY MARK TYPE-COND:
43 VCSH: 40 / 40
44 THR CROSS NG HGT: 3.00 / 3.00
45 VISUAL GLIDE ANGLE:
46 CNTRL N TDZ:
47 RVR-RV: Y / Y
48 RBIL:
49 APCH LIGHTS:

OBSTRUCTION DATA
> 50 FAR 77 CATEGORY: C / PIR
> 51 DISPLACED THR: TREE /
> 52 CT-G OBSTN:
53 OBSTN MARKED LGTD: 40 / 36
> 54 HGT ABOVE RWY END: 2142 / 1,385
> 55 DIST FROM RWY END: 109 / 381
> 56 CNTRL N OFFSET: 391 / 33-1
> 57 OBSTN CLNC SLOPE: N / N
58 CLOSE IN OBSTN:

DECLARED DISTANCES
> 60 TAKE OFF RUN AVBL (TORA): 6,001 / 6,001
> 61 TAKE OFF DIST AVBL (TODA): 6,001 / 6,001
> 62 ACFT STOP DIST AVBL (ASDA): 6,001 / 6,001
> 63 LNDG DIST AVBL (LDA): 6,001 / 6,001

(C) ARPT MGR PLEASE ADVISE FSS IN ITEM 88 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >

> 110 REMARKS

A 516 MANAGER CELL:
A 576 HELO & FIXED WING.
A 110-001 DEER INVOF ARPT.
A 110-003 FREQ BLEEDOVER OCCURS ON ALL FREQS 1.75 NM NORTH OF RY 02/20.
A 110-004 BIRD ACTIVITY INVOF ARPT.
A 110-005 RY 20 PREFERRED CALM WIND RY.
A 110-007 FOR CD OTC BNA APCH ON 124.55. IF UNA CALL 815-695-4022.

111 INSPECTOR: (S) 112 LAST INSPR: 04/28/2017 113 LAST INFO REQ: 08/13/1998

Othe
Docu
capa

- Pic
- op
- Let
- Wa

38 2D/2D2

> 39 PCN:

LIGHTING/APCH AIDS

> 40 EDGE INTENSITY:

> 42 RWY MARK TYPE-COND:

> 43 VGSI:

44 THR COSSING HGT.:

45 VISUAL GLIDE ANGLE:

> 46 CNTRLN-TDZ:

> 47 RVR-RVV:

> 48 REIL:

> 49 APCH LIGHTS:

OBSTRUCTION DATA

50 FAR 77 CATEGORY

> 51 DISPLACED THR:

> 52 CTLG OBSTN:

> 53 OBSTN MARKED/LGTD:

> 54 HGT ABOVE RWY END:

> 55 DIST FROM RWY END:

> 56 CNTRLN OFFSET:

57 OBSTN CLNC SLOPE:

58 CLOSE-IN OBSTN:

DECLARED DISTANCES

> 60 TAKE OFF RUN AVBL (TORA):

> 61 TAKE OFF DIST AVBL (TODA):

> 62 ACLT STOP DIST AVBL (ASDA):

> 63 LNDG DIST AVBL (LDA):

| | | |
|-------------------|--|-------|
| MED | | |
| NPI - G / PIR - G | | - / - |
| P4L / P4L | | / |
| 40 / 40 | | / |
| 3.00 / 3.00 | | / |
| - / - | | - / - |
| - / - | | - / - |
| Y / Y | | / |
| / | | / |
| C / PIR | | / |
| / | | / |
| TREE / | | / |
| / | | / |
| 49 / 36 | | / |
| 2,142 / 1,383 | | / |
| 109 / 381 | | / |
| 39:1 / 33:1 | | / |
| N / N | | / |
| 6,001 / 6,001 | | / |
| 6,001 / 6,001 | | / |
| 6,001 / 6,001 | | / |
| 6,001 / 6,001 | | / |

(>) ARPT MGR PLEASE ADVISE FSS IN ITEM 86 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >

> 110 REMARKS

- A 016 MANAGER CELL:
- A 076 HELO & FIXED WING.
- A 110-001 DEER INVOF ARPT.
- A 110-003 FREQ BLEEDOVER OCCURS ON ALL FREQS 1.75 NM NORTH OF RY 02/20.
- A 110-004 BIRD ACTIVITY INVOF ARPT



Other References

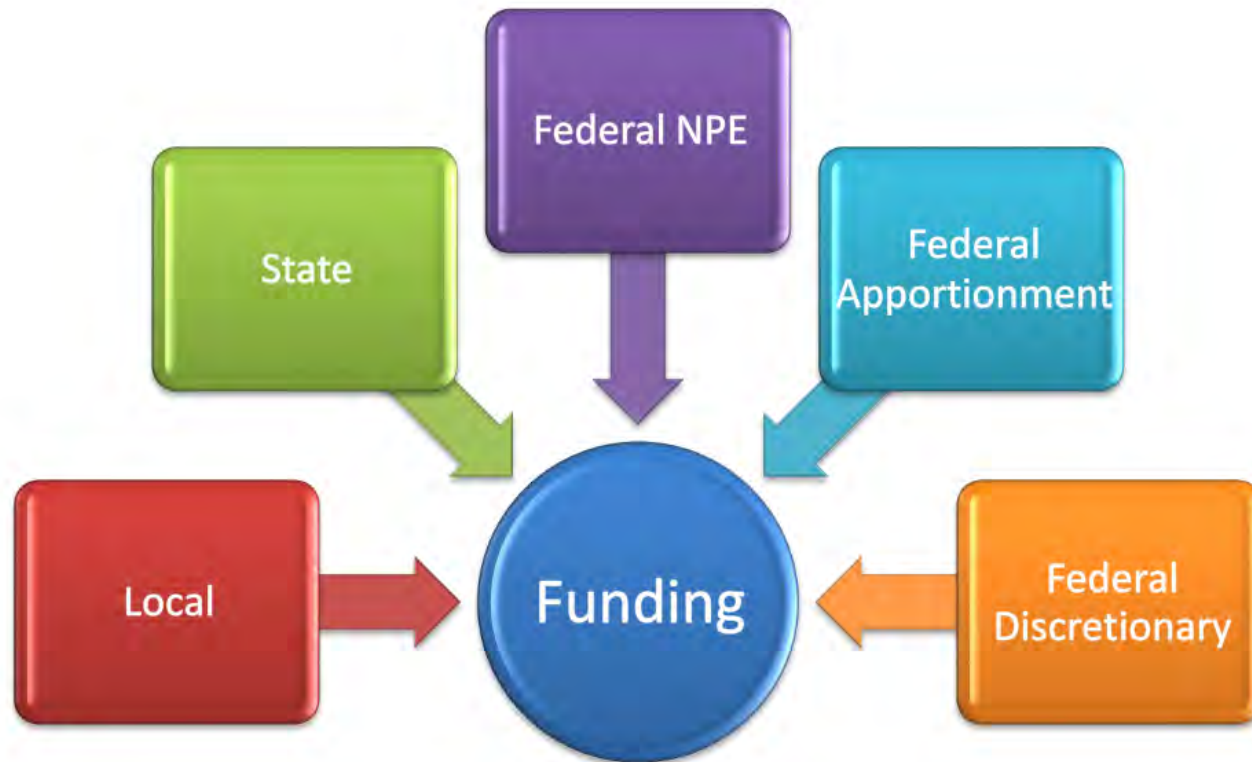
Documentation of need for additional capacity/equipment/improvements

- Pictures and documentation of day-to-day operations or special events.
- Letters of support
- Waiting lists



If only we had more NPE!

Funding Options and Flexibility



Federal NPE

Federal
Apportionment

**Present ACIP needs that are supported with
local funding**

+

existing NPE balance (if any remains)

&

We (TAD) will try to fund any remaining gaps

Don't delay projects based on NPE balance!

\$7,500 = \$150,000

1,900% Rate of Return*

*assuming a 1 year period

Local Investment

\$7,500.00

=

Capital Improvements

\$150,000.00

\$10,000.00

=

\$200,000.00

\$15,000.00

=

\$300,000.00

\$25,000.00

=

\$500,000.00

\$35,000.00

=

\$700,000.00

\$45,000.00

=

\$900,000.00

\$50,000.00

=

\$1,000,000.00

Sustainability

Revenue producing projects will be considered once higher priority needs have been addressed.



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Requesting Projects

Large projects should be split into phases

- Planning, design, construction, etc.
- Scoping grants may be needed on complex projects (check with your Project Manager)

Required with each request:

- Scope - detailed w/ pictures/sketches
- Schedule - key milestones
- Costs - including basis/assumptions

2018 TAC Schedule - Tentative

Early February

Early April

Early June

Early September

Early November



Discretionary Projects List

- 2018** M01 Memphis - Gen. DeWitt Spain
Rehabilitate Runway 17/35 Pavement and Relocate Parallel Taxiway
- 2018** GCY Greeneville - Greeneville-Greene Co. Muni
Rehabilitate Runway 05/23, Parallel Taxiway & Apron Pavements
- 2019** NQA Millington - Millington Regional Jetport
Rehabilitate Runway 04/22 Pavement
- 2020** MKL Jackson - McKellar-Sipes Regional
Rehabilitate Runway 02/20 Pavement
- 2021** GKT Sevierville - Gatlinburg-Pigeon Forge
Relocation of Runway 10/28 Pavement
- 2022** SNH Savannah - Savannah Hardin County
Rehabilitate Runway 01/19

Next Steps

#1) Edit/revise

- Edit/revise your ACIP drafts based on the information presented today.

#2) Working Sessions

- Coordinate with your Project Manager/Program Monitor/Consultant, and any other critical stakeholders, to conduct working sessions to finalize ACIP and enter projects into BlackCat.

#3) Complete your ACIP by **12/01/2017**.

#4) Commit to the plan and schedule created, especially for year 1.

