

Build Kansas Fund | Fiscal Year 2024 Application Package | Memo



To: Senator Ty Masterson, Chair, Build Kansas Advisory Committee
Murl Riedel, Kansas Legislative Research Department
Shauna Wake, Office of the Kansas State Treasurer

From: Matthew A. Volz, PE, Executive Director, Kansas Infrastructure Hub

RE: Build Kansas Fund Application #2024-050-FHRC

Date: May 20, 2024

Attached, please find an application made to the Build Kansas Fund by the City of Emporia. The application packet includes the following items:

- Coversheet – provides a high-level overview of the application including a unique identification number, page 1 of 10 of the Build Kansas Fund Application Package.
- Build Kansas Fund Application – includes information submitted with the Build Kansas Fund Application, pages 2-8. Page 8 provides the table of funding sources.
- Attachments – Executive Summary, pages 9-10.

Project Overview

Under the Airport Infrastructure Grant (AIG) Program, the Federal Aviation Administration will provide funding for investments in runways, taxiways, safety, and sustainability projects, as well as terminal, airport-transit connections, and roadway projects. The Emporia Municipal Airport Rehabilitate Taxiways Lighting System Project is located 4 miles south of Emporia in central Lyon County in eastern Kansas. The airport consists of paved Runway 1-19 (5,005' x 100') and turf Runway 6-24 (3,881' x 300'). This project will replace the existing runways lighting and circuit system.

This opportunity is a discretionary BIL program with a local match requirement of 10% of the total project cost. The entity is requesting \$49,889.00 from the Build Kansas Fund. This request has the potential to unlock \$449,000.00 in federal funds.

The federal deadline is May 31, 2024, and this Build Kansas Fund application was received on May 13, 2024.

Build Kansas Fund Steering Committee Recommendation

The Build Kansas Fund Steering Committee reviewed this application on May 15, 2024, following a successful completeness check. The Steering Committee **RECOMMENDS APPROVAL** of Build Kansas Funding to the Build Kansas Advisory Committee for final advice.

Build Kansas Fund | Fiscal Year 2024 Application Package | Coversheet



Build Kansas Fund Application Number	2024-050-FHRC
Project Name	Emporia Municipal Airport (EMP) – Replace Taxiway Lighting System
Entity Type	Local Government
Economic Development District (EDD) Planning Commission	FHRC –Flint Hills Regional Council
Infrastructure Sector(s)	Transportation
BIL Program	Airport Infrastructure Grant (AIG)
BIL Program Type	Discretionary
BIL Application Deadline	5/31/2024
Build Kansas Fund Request	\$49,889.00
Technical Assistance Received	General No
	BIL Application No
	Build Kansas Fund Application Yes
	Other (Brief Description): Provide general and application support to applicant
Application Notes	Build Kansas Fund contribution of \$49,889 will unlock \$449,000 in federal BIL funding.

Steering Committee Funding Recommendation	5/15/2024 Recommend
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Advisory Committee Target Review	DATE Recommend or Decline
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Advisory Committee Funding Recommendation	DATE Approve or Decline
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Completeness Review Data

Date Build Kansas Application Received:	5/13/2024
Date Of Completeness Check:	5/13/2024
Date Forwarded to Steering Committee:	5/13/2024

Title **City of Emporia, Kansas** 05/13/2024
by **Ian Wright** in **Build Kansas Fund Fiscal Year 2024 Application** id. 46499062
iwright@hwlochner.com

Original Submission 05/13/2024

Score n/a

Part 1: Applicant Information

The name of the entity applying for the Build Kansas Fund: City of Emporia, Kansas

Project Name: Emporia Municipal Airport (EMP) - Replace Taxiway Lighting System

Entity type: Local Government

Applicant Contact Name: Dean Grant

Applicant Contact Position/Title: Public Works Director

Applicant Contact Telephone Number: +16203406339

Applicant Contact Email Address: dgrant@emporiaks.gov

Applicant Contact Address: 1220 Hatcher Street

Applicant Contact Address Line 2 (optional):

Applicant Contact City: Emporia

Applicant Contact State: Kansas

Applicant Contact Zip Code: 66801

Is the Project Contact the same as the Applicant Contact?	No
Project Contact Name:	Ian Wright
Project Contact Position/Title:	Project Manager / Civil Engineer
Project Contact Telephone Number:	+13165189244
Project Contact Email Address:	iwright@hwlochner.com
Project Contact Address:	15717 College Boulevard
Project Contact Address Line 2 (optional):	
Project Contact City:	Lenexa
Project Contact State:	Kansas
Project Contact Zip Code:	66219
Part 2: Build Kansas Fund - Eligibility Criteria	
Certify that you are pursuing a viable Bipartisan Infrastructure Law (BIL) funding opportunity for which your entity is eligible:	Yes
Certify that the Bipartisan Infrastructure Law (BIL) funding opportunity you are pursuing has a required non-federal match component:	Yes
What is the primary county that the project will occur in?	Lyon County

The Build Kansas Fund is intended to support Kansas-based infrastructure projects. Please provide a list of all the zip codes this project will be located in, along with an estimated percent [%] of the project located in that zip code. For example, if seeking funding for road infrastructure, provide a rough percent of the roads expected in each zip code:

[Zip Code Percentage.xlsx](#)

Part 3: Bipartisan Infrastructure Law (BIL) - Grant Application Information
Please Note: This information is related to the federal Bipartisan Infrastructure Law (BIL) funding opportunity to which you will apply. This is NOT information for the Build Kansas Match Fund.

Please enter the Bipartisan Infrastructure Law (BIL) funding opportunity title that the entity is applying for: Bipartisan Infrastructure Law Airport Infrastructure Grant Funding

What is the funding agency for this Bipartisan Infrastructure Law (BIL) funding opportunity? Federal Aviation Administration

What is the Assistance Listing Number (ALN) for this Bipartisan Infrastructure Law (BIL) funding opportunity? 20.106

What is the application due date for this Bipartisan Infrastructure Law (BIL) funding opportunity? 5/31/2024

What is the federal fiscal year for this Bipartisan Infrastructure Law (BIL) funding opportunity? 2024

Enter the amount of funding being applied for, from the Bipartisan Infrastructure Law (BIL) funding opportunity: \$449,000.00

Enter the total project cost: \$498,889.00

Enter the required non-federal match percentage: 10.0

Part 4: Build Kansas Fund - Match Application Information

Enter the non-federal match amount being requested from the Build Kansas Fund: \$49,889.00

Is the project able to move forward with a lesser match amount than requested? Yes

If you are awarded less match than the amount requested, at what amount would your project NOT be able to move forward? 0.0

Expected breakdown of funding sources to support the project: Enter the funding source and projected amount from each source to support this project:

[Kansas+DOT+table.xlsx](#)

Part 5: Build Kansas Fund - Means Test

Confirm that there are no available funding sources currently planned to go unused by your entity that could be leveraged for this project: Yes

Confirm there are no available American Rescue Plan Act (ARPA) or Coronavirus State & Local Fiscal Recovery Fund monies that could be used for this match:

Yes

Confirm that you have explored other readily available funding sources (federal or non-federal) to be used for this match:

Yes

Briefly describe your efforts to find other available funding sources for this project:

The Bipartisan Infrastructure Law (BIL) local match to the federal grant has been planned for utilizing local funding mechanisms. At this point in time and throughout past research, there are no known funding sources available (federal or local) that could fund the BIL local match.

Part 6: Additional Information

Please upload a copy of the Bipartisan Infrastructure Law (BIL) program application associated with this request OR a 2-page executive summary providing an overview of the project:

[EMP_MITL_-_Executive_Summary_-_Build_Kansas_Fund.docx](#)

Provide any additional information about this project (optional):

This project is comprised of a combination of AIP-NPE funds and AIG-BIL funds. Both the AIP-NPE and AIG-BIL funds have been "set aside" or allocated to the City and the local match can be made regardless of approval of this application. The project costs are as follows:

Total Project Cost: \$686,883

AIG-BIL Funds: \$449,000.00

Local Match to AIG-BIL Funds: \$49,889.00

AIP-NPE Funds: \$169,194.00

Local Match to AIP-NPE Funds: \$18,800.00

Part 7: Terms and Conditions

Understanding of Fund Release Requirements: checked

Understanding of Use of Funds: checked

Understanding of Reporting Requirements: checked

Authority to Make Grant Application: checked

Persons and Titles: Ian Wright
The following persons are responsible for making this Build Kansas Fund application.

Position/Title: Project Manager / Civil Engineer

Additional:

Position/Title:

Additional:

Position/Title:

Additional:

Position/Title:

Internal Form

Score n/a

Pre-Award Information:

Post-Award Information:

Deviation Report:

Source	Amount	Zip Code	% of project in zip code
BIL Federal Funds (applied for)	\$ 449,000.00	66801	100
Build Kansas Funds (non-federal match)	\$ 49,889.00		in KS
Additional Project Contribution (if applicable)	\$ -		
TOTAL PROJECT COST	\$ 498,889.00		

Description of the Project

The City of Emporia, Kansas (City) and H.W. Lochner, Inc. (Lochner) entered into a contract for engineering services to replace the Runway 1-19 parallel taxiway lighting system.

Project Location, Analysis of Current Airfield Conditions, and Needs Addressed

The Emporia Municipal Airport is located 4 miles south of Emporia in central Lyon County in eastern Kansas. The airport consists of paved Runway 1-19 (5,005' x 100') and turf Runway 6-24 (3,881' x 300'). Aircraft can access Runway 1-19 and Runway 6-24 via the full-length parallel taxiway to Runway 1-19. Three connecting taxiways serve as access points to Runway 1-19. Per the FAA Form 5010-1 Airport Master Record, the airport serves 42 based aircraft: 35 single engine aircraft, three multi-engine aircraft, one jet aircraft, and three helicopters. Runway 1-19 has an Airport Reference Code (ARC) of C-II and Runway 6-24 as having an ARC of A-I. A particular ARC is assigned to the runway based upon characteristics of the typical aircraft (design aircraft) that is expected to use the pavement. The parallel and connecting taxiways, as well as the apron, are designed to Taxiway Design Group (TDG) 2 standards.

The parallel and connecting taxiways are powered by a taxiway lighting circuit that was installed in 1989. The existing parallel taxiway lights are stake mounted with an occasional base mounted light. The Medium Intensity Taxiway Lights (MITLs) are powered by direct buried circuitry located 12.5 feet offset from the edge of pavement. Bare counterpoise wire, located in the same trench as the taxiway lighting circuit, runs a few inches above the circuit. These cables will be abandoned in place and if exposed during construction, they will be cut below ground.

The taxiway lights are powered by two separate circuits that operate concurrently. One circuit is powered by a 4.0 kW Constant Current Regulator (CCR) while the other is powered by a 7.5 kW CCR. Both of these CCRs are located next to the recently installed Runway 1-19 CCR in the newer part of the electrical vault building. The MITL system has exceeded the FAA minimum useful life requirement of ten years and is eligible for replacement.

Expected Project Outcomes

The proposed MITL system will be designed in accordance with FAA AC 150/5340-30J *Design and Installation Details for Airport Visual Aids*. All taxiway lights will be 24-inches-tall, similar to the recently replaced Runway 1-19 lighting system, and located ten feet from the edge of pavement. These lights will be base-mounted and all electrical circuitry will be enclosed in a one-inch conduit. There are two methods to install the conduit – trenching and plowing. Typically, both methods are allowed, however the City has indicated the preferred method of installation is plowing the conduit directly into the ground, therefore this method will only be specified with this project. The lights will also be Light Emitting Diode (LED) type equipped with an arctic option. The arctic option equips the light fixture with a component that uses a thermostatically controlled heater to prevent ice and snow from building up and obscuring the light output. LED lights with an arctic option melt ice similar to traditional incandescent fixtures.

A size 6 solid copper counterpoise wire will also be installed for lightning protection. This counterpoise system will feature ground rods installed at intervals no larger than 500 feet to adequately discharge any electricity into the earth, inhibiting the electrical surge from damaging the lighting system. The Contractor will have the option to install the bare counterpoise wire either in the same trench above the taxiway lighting circuit (commonly referred to as the equipotential method) or at a five-foot offset from the edge of the taxiway pavement (commonly referred to as the isolation method).

Project Goals

Completing these items will provide a safe airfield environment for aircraft utilizing the parallel taxiway by adequately illuminating the travel way.

Project Collaborators

- Federal Aviation Administration (FAA)
- City of Emporia, Kansas
- Lochner
- Local Tenants Based at the Emporia Municipal Airport

Budget

\$169,194 FY2024 FAA AIP Grant – 019 (90%)
\$18,800 Local Matching Funds for Grant – 019 (10%)

\$449,000 FY2024 FAA BIL Grant – 020 (90%)
\$49,889 Local Matching Funds for Grant – 020 (10%)

\$686,883 Total Project Costs