City of Eugene COAR Application 2022

Applicant				
Organization Name			Contact Perso	n *
City of Eugene			Cathryn Stephe	
Address			Contact Perso	n Title *
28855 Lockheed Dr.			Acting Airport D	Director
City	State	Zip Code	Phone Number	- Email
City Eugene	Oregon	97402	(541) 682-6638	
Eugene	Oregon	97402	(341) 082-0030	Cotephens@eugene-or.gov
Project Name and Lo	cation			
Project Name *			Project Location	on *
Redundant Fiber for Te	erminal and Air Ti	raffic Control	Eugene, Orego	n
00070 ·				
ODOT Region:				
Region 2				
For convenience, If y https://odae-grants.com			bload them here: 1099172-TaxLotMap.pdf	
Airport Information				
Airport Name: *			oort Category: *	NPIAS or Non-NPIAS: *
Eugene Mahlon Swee	t Airport		egory 1a	NPIAS
(EUG)				
Project Overview				
	1 			
Select the type of pro		osea: *		
Program Implementati	on			
Select the category o	f project for whi	ch you are req	ting funding: *	
Emergency preparedn	ess and infrastru	cture projects i	cordance with the Oregon Resilience F	lan
	011107-	-		
Project Start Date:	6/1/2022			
Project End Date:	6/1/2023	3		

Project Summary *

Provide a brief summary of the project in the space provided below:

The Eugene Airport (EUG) and local Federal Aviation Administration (FAA) operations are supported by a single fiber-optic network. Without any backup systems in place, all it takes is one point of failure in a network to disrupt or shut down air traffic operations at EUG. Redundancy in the network helps to eliminate single points of failure, ensure better network stability and uptime in the face of events that would otherwise disrupt operations at EUG.

Project Purpose and Description *

Provide a purpose and description of the project in the space provided below:

The purpose of this project is to construct a redundant fiber-optic system to support operations at the Eugene Airport (EUG). The proposed project will install new airport-owned fiber-optic cable, conduit, and associated infrastructure and document new fiber optic cable paths. The project will provide a new high-speed backbone network that will ensure continuous operations at EUG.

Clearly define the proposed project in each of the following areas:

 Does the project eliminate current defici 	encies listed in the current Oregon Aviation Plan? *	Yes	No
made resilient against a disaster. It is critica redundancy, we can ensure that Eugene Air	n is to ensure that information and communication systems in the state of Oregon are I for the airport to continue its operations when disasters strike. By having fiber network rport will be able to continue its operations, Air Traffic Controllers will be able to be able to communicate to the ground handlers to keep the airport open and operationa		
	ev exceeding state or federal minimum standards as stated in the ried by the Federal Aviation Administration Advisory Circulars or other	Yes	No
operational functions after a major earthqua Carrier Operations and local Air Traffic Cont	Airport (EUG) as one of the airports that has a potential to maintain or quickly restore ike. Additionally, FAA Advisory Circular 93-3 requires communication between pilots, Ai arol related to TARMAC delays. This project will prevent disruption on communications a disaster, and will ensure communications between the airport, Air Traffic Control and	r	
Does the project prevent future deficient	cies and preserve the existing facilities? *	Yes	No
	e of fiber, Eugene Airport could become non-operational. This project will prevent future		No
In the event of disaster, with only one sourc	e of fiber, Eugene Airport could become non-operational. This project will prevent future ct to Eugene Airport.		No
In the event of disaster, with only one source deficiencies by having multiple fibers connect • Does the project increase the financial so Fiber network redundancy will ensure that E source leaves Eugene Airport open to the p	e of fiber, Eugene Airport could become non-operational. This project will prevent future ct to Eugene Airport.	9	
In the event of disaster, with only one source deficiencies by having multiple fibers connect • Does the project increase the financial so Fiber network redundancy will ensure that E source leaves Eugene Airport open to the p disruption in airport operations means the lo	e of fiber, Eugene Airport could become non-operational. This project will prevent future ct to Eugene Airport. elf-sufficiency of the airport? * Eugene Airport's communication is protected against disasters of any kind. One fiber ossibility of becoming inoperable should a disaster disrupt that one source . Any pass of revenue and increased expense to the airport, affecting our ability to be self	9	

Project Documentation: Redundant Fiber for Terminal and Air Traffic Control

City of Eugene COAR Application 2022

Documentation and Permits

Was the Airport Layout Plan (ALP) Completed within the last 10 years? *

✓ Yes No Underway

Is a NEPA review required? *

Yes 🖌 No

Please select the applicable review type:

If 'Other' is selected, please describe the type of NEPA review in the provided field below.

Note any required permits, date issued or expected issue date, completion status, and required status. Permits may include, but are not limited to: right-of-way permits, land acquisition permits, building permits, etc. Click the **"SAVE"** button to add additional rows.

Permit Type	Date Issued	Completion Status	Required Status
Right of Way Permit from the City of Eugene			Required
Right of Way Permit from Lane County			Required
Right of Way Permit from Oregon Department of Transportation if new	_		Required
infrastructure is necessary			

Statewide Impact of Project

Per **ORS 367.084(6)**, the following questions apply:

Does the proposed project reduce transportation costs for Oregon businesses or improve access to jobs and sources of labor? If yes, provide a short explanation. * This project protects businesses from Eugene Airport shutdown due to loss of communication ability resulting in loss of access to travel and air cargo delivery, possibly leading to loss of revenue and jobs.	✔ Ye	es No
Does the proposed project result in an economic benefit to the state? If yes, provide a short explanation. * Airports are important to the community because they provide local businesses with access to the global market. By ensuring the Eugene Airport is resilient and continues to be operational when disaster strikes, support for business will be able to continue an thus provide jobs and economic prosperity for the area.		es No
Is the proposed project a critical link connecting elements of Oregon's transportation system that will measurably improve utilization and efficiency of the system? If yes, provide a short explanation. * The Oregon Aviation Plan identified Eugene Airport as one of the airports that has a potential to maintain or quickly restore operational functions after a major earthquake. This project will prevent disruption on communications and support recovery effort the event of a disaster.	✓ Ye ts in	s No
Is the proposed project ready for construction or implementation? * The majority of the infrastructure is already in place. Additional conduit may need to be constructed to support the new fiber-optic line.	✔ Ye	es No
Does the project have any unique construction-readiness, project implementation issues, or possible delays? *	Ye	es ✔No
Does the proposed project have a useful life expectancy that offers maximum benefit to the state? If yes, provide a short explanation. * A study by Nevada Department of Taxation indicates that fiber-optic cable has a service life of 20 years for fiber-optic cable place service in 2008 and thereafter. Corning, a principal manufacturer of optical fiber, states that the intended service life for optical file cables often is in excess of 25 years. Internal Revenue Service classifies buried cable and conduit with a life of 26.5 years for depreciation purposes.		es No

Is this project currently listed in your approved Federal CIP? *

Yes 🖌 No

Federally Funded Projects *

FAA Funding Breakdown		
Federally Funded Projects		0 %
FAA AIP Grant Match Requirement from Sponsor		0 %
Total Project Cost	\$0	100 %

Non-Federally Funded Projects *

Total Project Cost

\$500,000.00

Project Funding Breakdown

Provide the funding source and the amount of funding from that source.

	Percent of Project Cost
Minimum Program Match Requirement:	50%

Source of Match Funds *	Amount	Date Available
FAA grant funds	\$0	
Airport Enterprise Fund	\$350,000.00	6/1/2021
Total Match Funds:	\$350,000.00	70 %

Aviation Project Funding Request to ODA *			
	Amount requested from ODA:	\$150,000.00	30 %

Project Budget Summary		
Total applicant matching funds	\$350,000.00	70 %
Funding request to ODA	\$150,000.00	30 %
Total Project Cost	\$500,000.00	100 %

Pre-Agreement Expenditures *

✓ No

Has the project incurred any expenditures prior to the completion of this agreement, if awarded? If yes, explain.

Yes

* In accordance with **OAR 738-124-0045(3)(b)** "Only Project costs incurred on or after the effective date of the Agreement are eligible for grant funds."

Please describe those pre-agreement expenditures.

Related Document Uploads

Description	Upload	
Back up document for source of match funds	https://odae-grants.com/_Upload/14318_1101011-MemotoIntergovernmentalCommi	
	ttee2022RedundantFiber.pdf	

File Repository

Letter of Support from Eugene Area Chamber of Commerce

Letter of Support from Springfield Chamber of Commerce

Letter of Support from Travel Lane County

Final Report

(You must upload your Final Report prior to closeout) <u>Click here to generate the Final Report form</u>

Upload

14319_1101013-EUGCOARSupp ortLetterEugeneChamberofCom merce.pdf

Person:Odette Oppe Date:9/21/2021

14319_1101013-EUGCOARSupp ortLetterSpringfieldChamberofCo mmerce.pdf

Person:Odette Oppe Date:9/21/2021

14319_1101013-EUGCOARSupp ortLetterTravelLaneCounty.pdf

Person:Odette Oppe Date:9/21/2021

Category Applicant Response		Internal Review Score
NPIAS or Non-NPIAS Airport	NPIAS	0
Type of Project	Program Implementation	10
Project Category	Emergency preparedness and infrastructure projects in accordance with the Oregon Resilience Plan	7
Is there an existence of Airport Zoning?	Yes	5
MINIMUM Match Percentage:	50 %	50
Total applicant matching funds: \$350,000.00 / 70 %		20
Funding Request to ODA: \$150,000.00 / 30 %		
Total Project Cost	\$500,000.00 / 100 %	

Does the proposed project reduce transportation costs for Oregon businesses or improve access to jobs and sources of labor?

This project protects businesses from Eugene Airport shutdown due to loss of communication ability resulting in loss of access to travel and air cargo delivery, possibly leading to loss of revenue and jobs.

Does the proposed project result in an economic benefit to the state?

Airports are important to the community because they provide local businesses with access to the global market. By ensuring that Eugene Airport is resilient and continues to be operational when disaster strikes, support for business will be able to continue and thus provide jobs and economic prosperity for the area.

Is the proposed project a critical link connecting elements of Oregon's transportation system that will measurably improve utilization and efficiency of the system?

The Oregon Aviation Plan identified Eugene Airport as one of the airports that has a potential to maintain or quickly restore operational functions after a major earthquake. This project will prevent disruption on communications and support recovery efforts in the event of a disaster .

Is the proposed project ready for construction or implementation?

The majority of the infrastructure is already in place. Additional conduit may need to be constructed to support the new fiber-optic line.

Does the project have any unique construction-readiness, project implementation issues, or possible delays?

Does the proposed transportation project have a useful life expectancy that offers maximum benefit to the State?

Staff Entry	Review Score
1	5

Staff Entry	Review Score
1	5

Staff Entry	Review Score
1	5

Staff Entry	Review Score
1	5

Staff Entry	Review Score
0	5

Staff Entry	Review Score
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Internal Review Sheet

1 5

A study by Nevada Department of Taxation indicates that fiber-optic cable has a service life of 20 years for fiber-optic cable placed in service in 2008 and thereafter. Corning, a principal manufacturer of optical fiber, states that the intended service life for optical fiber cables often is in excess of 25 years. Internal Revenue Service classifies buried cable and conduit with a life of 26.5 years for depreciation purposes.

Does the project eliminate current deficiencies listed in the current OAP?

One of the goals of the Oregon Aviation Plan is to ensure that information and communication systems in the state of Oregon are made resilient against a disaster. It is critical for the airport to continue its operations when disasters strike. By having fiber network redundancy, we can ensure that Eugene Airport will be able to continue its operations, Air Traffic Controllers will be able to communicate to the pilots, and airlines will be able to communicate to the ground handlers to keep the airport open and operational.

Does the project modernize the airport by exceeding state or federal minimum standards as stated in the current Oregon Aviation Plan and identified by the Federal Aviation Administration Advisory Circulars or other regulations?

The Oregon Aviation Plan identified Eugene Airport (EUG) as one of the airports that has a potential to maintain or quickly restore operational functions after a major earthquake. Additionally, FAA Advisory Circular 93-3 requires communication between pilots, Air Carrier Operations and local Air Traffic Control related to TARMAC delays. This project will prevent disruption on communications and support recovery efforts in the event of a disaster, and will ensure communications between the airport, Air Traffic Control and the airlines.

Does the project prevent future deficiencies and preserve the existing facilities?

In the event of disaster, with only one source of fiber, Eugene Airport could become non-operational. This project will prevent future deficiencies by having multiple fibers connect to Eugene Airport.

Does this project increase the financial self-sufficiency of the airport?

Fiber network redundancy will ensure that Eugene Airport's communication is protected against disasters of any kind. One fiber source leaves Eugene Airport open to the possibility of becoming inoperable should a disaster disrupt that one source. Any disruption in airport operations means the loss of revenue and increased expense to the airport, affecting our ability to be self sufficient.

Does the project have local support?

See attached letters of support from Eugene Chamber of Commerce, Springfield Chamber of Commerce and Travel Lane County.

Summary

Staff Entry	Review Score
1	5

Staff Entry	Review Score
1	5

Staff Entry	Review Score
1	5

Staff Entry	Review Score
1	5

Staff Entry	Review Score
1	5

Application	ACT	Total	ARC	State Board
Base Score	Grading	Final Score	Priority	Priority
147		147		