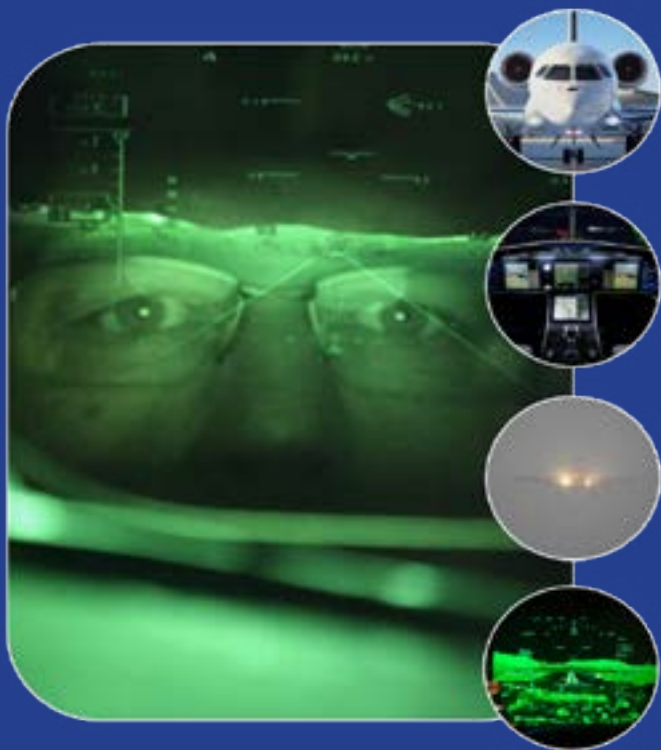


FLIGHT TECHNOLOGIES AND PROCEDURES DIVISION



**Part 91 LOA C048
EFVS Application Guide**

Revision 6 (10/6/2021)

This guide was developed by the Federal Aviation Administration, Flight Technologies and Procedures Division. Please submit any questions regarding EFVS policy to: 9-AVS-AFS-EFVS@faa.gov

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Section 1 | Overview

1.1 Purpose

This guide extracts the items specified in Advisory Circular (AC) 90-106 (current version) necessary for a part 91 LOA C048 application for operations under § 91.176(a) or (b), as applicable. This includes pilot requirements specified under § 61.66. This guide provides a companion to AC 90-106 but does not constitute the only way to comply with recommended items. This guide facilitates efficient and timely processing of the application.

1.2 Applicability

This guide should be used by part 91 operators requesting FAA authorization LOA C048 for EFVS operations to touchdown and rollout under § 91.176(a), to request an optional LOA C048 for EFVS operations to 100 feet above the touchdown zone elevation under § 91.176(b), or both operations on the same authorization.

1.3 Application Instructions

1. Familiarize yourself with the EFVS resources and guidance found on the [FAA's EFVS webpage](#).
2. Set up a pre-application meeting with the servicing Flight Standards office. The purpose of this meeting is to clarify the process and to identify the appropriate documentation that should be submitted to decrease the amount of work required by both the applicant and the FAA.
3. Complete Parts 2 & 3 of the EFVS Operator Application Guide.
4. Attach supporting documents.
5. Forward application to the Principal Inspector. It is preferred to submit the application electronically utilizing the Operations Approval Portal System (OAPS) or email.





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Section 2 | Application Form

Date:

2.1 Point Of Contact Information:

This is the person to contact for questions about the application.

Contact Name:

Contact Phone:

Contact Email:

2.2 Operator Information:

Operator Name:

Operator Four Letter Designation (*if known*):

Business Address:

Suite:

City:

State:

Zip Code:

Region:

Country:

2.3 Responsible Person Information:

This is the person designated on the LOA.

Name:

Phone:

Email:



2.3 Aircraft Location:

Airport Name:

Airport Identifier:

2.4 Aircraft Information:

Make:

Registration Number(s):

Model:

Series:

Serial Number(s):

2.5 Installed EFVS Equipment:

Sensor Manufacturer (Check System(s))	Sensor Model (Check Model(s))
Collins Aerospace	EVS-3000 EVS-3600
Universal Avionics	EVS-5000 (Falcon Eye, ClearVision)
Esterline Electronics	CMA-2600 CMA-2700
Kollsman	EVS-I EVS-II EVS III (SP)
Other	

Note: EFVS information may not be in the airplane flight manual, or the aircraft manufacturer may have branded the original sensor differently. The Operational Suitability Report, EFVS Operational Credit for Enhance Flight Vision Systems (EFVS) includes an appendix that may help identify Aircraft-EFVS combinations. The applicant may have to contact the aircraft manufacturer to properly identify the installed sensor if there is any uncertainty.

2.6 EFVS Operation(s)

Do you currently have LOA C048? YES NO

Check the EFVS Operation(s) you are requesting that have not been previously authorized
(Check all that apply)

EFVS Operations to Touchdown and Rollout - § 91.176 (a)

EFVS Operation to 100 Feet Above the Touchdown Zone Elevation - § 91.176 (b)



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Section 3 | Attachments

This section is for attachments. Only provide the necessary page(s)/paragraph(s) to establish compliance and any additional documents the inspector identified during the pre-application meeting. Providing extraneous material will slow down the processing time.

3.1 Aircraft Capability

Check Box	Airworthiness Documentation
	<p>Attach the documentation to verify your EFVS was installed in accordance with AC 20-167. The documentation should identify the specific EFVS operations for which the system is eligible. This is typically a specific statement in the AFM or AFMS.</p> <p>Note: Only provide the page or pages of the AFM(S) that contain that specific statement.</p>





3.2 Crew Training Compliance

Pilots conducting EFVS operations must have a compliant logbook or training record endorsement for the operation they have been trained to conduct. There are exceptions for pilots trained prior to March 13, 2018.

Check Box	Logbook or Training Record Endorsements
	<p>Attach the training documentation for ONE crew unless otherwise requested by your inspector. Training documentation must be provided for each crew member for the operation(s) requested.</p> <p>Documentaiton of EFVS training received before March 13, 2018 must show evidence of EFVS training (i.e. logbook entry, type rating certificate showing EFVS training, certificate from your training provider, etc).</p> <p>Documentation of EFVS training received after March 13, 2018 must include an endorsement in accordance with §61.66.</p> <p>For example, your endorsement should look similar to the following: (Pilot Name) has satisfactorily completed the ground training required by § 61.66 (a) and has received the flight training required by § 61.66 (b) for EFVS operations and is proficient in the use of EFVS in the [appropriate aircraft category in which the ground and flight training was conducted] category of aircraft for EFVS operations conducted under [§ 91.176 (a), (b), or both § 91.176 (a) and (b)].</p> <p>If a pilot has a logbook or training record endorsement showing satisfactory completion of Supplementary Training for EFVS Operations to Touchdown and Rollout (§ 91.176(a)) in accordance with § 61.66(c), they must also provide evidence of previous training received for EFVS Operations to 100 Feet Above the Touchdown Zone Elevation (§ 91.176(b)).</p>

3.3 Procedural Compliance

A part 91 operator must operate their aircraft in accordance with the EFVS procedures and limitations outlined in their AFM(S). An applicant that chooses to incorporate the information found in an AFM(S) into an operations manual may do so at their discretion, but an operations manual is not a requirement for obtaining LOA C048.



Section
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Section 4 | Demonstration

Whether you are applying for an optional LOA C048 for EFVS operations to 100 feet, or the required LOA C048 for EFVS operations to touchdown and rollout, the inspector may request a demonstration of the applicant’s EFVS knowledge and abilities. Observation and evaluation of the operator’s ability to perform EFVS operation in an aircraft or simulator are possible but may be impractical. This phase may be conducted through tabletop exercises and/or operational monitoring if necessary. Operator knowledge of the following is important. The text boxes below are provided for you to submit brief comments that may give the inspector a better understanding of your operation.

4.1 Operator Demonstration Planning

Demonstration Items
Can you describe any supplemental EFVS procedures developed outside the FAA approved training in the application? Demonstration of these items may be required.
Can you describe your procedures for tracking EFVS recent flight experience?



4.1 Operator Demonstration Planning, Continued

Demonstration Items
Can you identify and explain any EFVS operational limitations included in the EFVS section(s) of the AFM or AFMS?
Can you describe how you comply with the EFVS manufacturer's ICAs?
Have you signed up to participate in the voluntary FAA pilot feedback program? Participation in the program may assist in completing the evaluation.



Appendix A | Feedback Program

This appendix provides information on the EFVS Voluntary Pilot Feedback Program.

A.1 EFVS Voluntary Pilot Feedback Program

The EFVS Pilot Feedback Program is designed to facilitate issuance of authorizations and collect data on EFVS availability and sensor performance. For information on the program and enrolling contact the following:

Daniela Kratchounova, Ph.D.

Federal Aviation Administration

Civil Aerospace Medical Institute

6500 S. MacArthur Blvd.

Oklahoma City, OK 73169

Email: Daniela.Kratchounova@faa.gov

Phone: (405) 954-6841



Did you apply for EFVS Voluntary Pilot Feedback Program?

YES

NO

We appreciate any feedback to improve this application guide.

Contact the [Flight Technologies and Procedures Division](#) at: (202) 267-8790