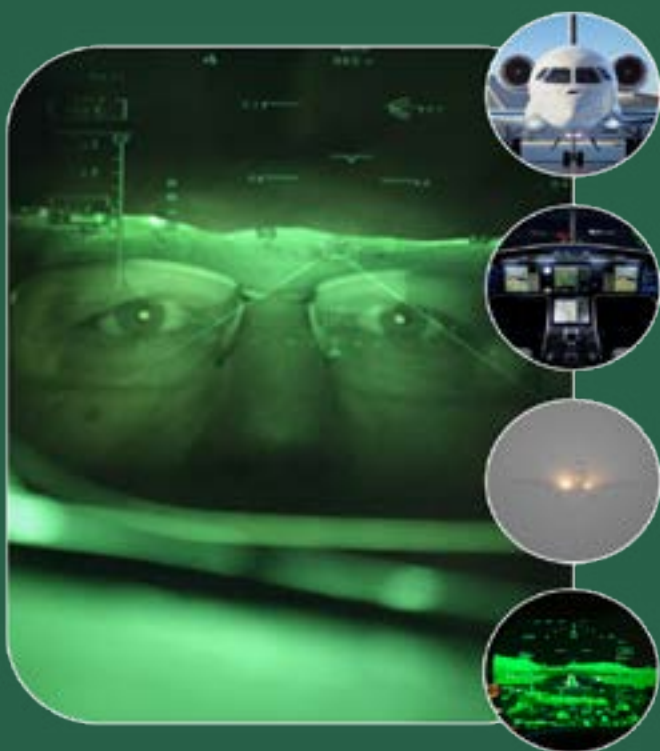


FLIGHT TECHNOLOGIES AND PROCEDURES DIVISION



Part 129 OpSpec C048 EFVS Application Guide

Revision 1 (12/13/2021)

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

*Next***GEN**





Section 1 | Overview

1.1 Purpose

This guide extracts the items specified in Advisory Circular (AC) 90-106 (current version) necessary for a part 129 OpSpec C048 application for operations under § 91.176(a) or (b), or for authorization to use EFVS operational credit. 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 129 operators requesting FAA authorization OpSpec C048 for EFVS operations to touchdown and rollout under § 91.176(a), OpSpec 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 ensure the applicant understands the application process and the documentation required. Conducting a thorough pre-application meeting should make the application process more efficient.
3. Complete all sections 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.





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 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 Enhanced 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)

Check the EFVS Operation(s) you plan to conduct with this aircraft (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)

2.7 EFVS Operational Credit

Are you applying to use EFVS operational credit? (Check all that apply)

No, I am not applying to use EFVS operational credit. (If you selected No, proceed to Section 3)

Yes, ground personnel responsible for dispatching flights will use EFVS operational credit to determine the minimum forecast visibility for dispatching a flight to the destination airport. (§ 121.613)

Yes, pilots will use EFVS operational credit to determine the minimum reported visibility to execute an approach using an EFVS. (§ 121.651)

The Flight Technologies and Procedures Division evaluates available performance data from numerous sources such as other operational evaluations and Original Equipment Manufacturer (OEM) demonstrations conducted in the type design approval process and recommends a standard credit for the EFVS sensor. An operator applying for EFVS operational credit that elects to use the standard credit recommended in the Operational Suitability Report (OSR), Operational Credit for Enhanced Flight Vision Systems would avoid the burden of demonstrating system performance in the application process for using the credit. The use of this credit will also ease the burden of the issuing FAA office and may expedite the processing time and issuance OpSpec C048.

What EFVS operational credit are you applying for? 25% 33% 50%



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 EFVS Aircraft Eligibility

Check Box	Airworthiness Documentation
	<p>Attach the documentation that states the EFVS installed on the aircraft is eligible for use in the specific EFVS operation(s) for which you are requesting in 2.6 above. 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>
	<p>Attach the AFM or AFMS statements that identify any operating limitations. These will be used to verify adequacy of the operating manuals and the training program.</p>

3.2 EFVS Operational Approval

Check Box	Operational Approval Documentation
	<p>Attach the documentation issued by the CAA of the state of the operator that shows authorization for the EFVS operation the operator is seeking to conduct.</p>

3.3 EFVS Curriculum and Crew Qualifications

Check Box	EFVS Curriculum and Crew Qualifications
	<p>Attach verification that the foreign operator completed an EFVS training course approved by the state of the operator.</p>



3.4 EFVS Provisions in the Minimum Equipment List (MEL)

Check Box	EFVS Provisions in the MEL
	If the applicant is seeking MEL relief for EFVS, attach the proposed MEL that contains the appropriate operations and maintenance procedures that consider all applicable components of the EFVS for MEL submission, review, and approval.

3.5 Request to Use EFVS Operational Credit

Check Box	Request to Use EFVS Operational Credit
	<p>If the operator is requesting EFVS operational credit, is the request based on the standard credit published in the Operational Suitability Report (OSR), Operational Credit for Enhanced Flight Vision Systems or the credit approved by the state of the operator?</p> <p>Note: If a credit is requested that is greater than what is recommended in the OSR, the application should include proposal to demonstrate sensor performance (visual advantage). AC 20-167 (current edition) and RTCA DO-390 should be referenced for the standard methods used to demonstrate quantified visual advantage.</p>

3.6 EFVS Maintenance Procedures

Check Box	EFVS Maintenance Procedures
	Does the foreign air carrier's maintenance program contain provisions for EFVS equipment?

3.7 Draft Operations Specification (OpSpec) C048

Check Box	Draft OpSpec C048
	<p>If possible, the applicant should submit a properly completed draft OpSpec C048 template that correctly reflects the aircraft, EFVS, and EFVS operation. An applicant should coordinate with the responsible Flight Standards Safety Assurance office in order to create a draft authorization that is filled out accurately. All templates are found via WebOPSS at: https://webopss.faa.gov/</p> <p>Note: Is the authorization template filled out correctly to reflect the aircraft, EFVS, EFVS operation(s), and EFVS operational credit (if applicable) specified in the application? Refer to WebOPSS and FAA Order 8900.1, Volume 4, Chapter 17, Section 1 for guidance.</p>

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