

Reporte de Aceptación de Certificado Tipo



Type Certificate Acceptance Report

No. FAA E4CE Revision 42
Rolls-Royce Model 250-C300/A1 Engine

TABLA DE CONTENIDO *(TABLE OF CONTENTS)*

RESUMEN (SUMMARY)	3
1. INTRODUCCIÓN (INTRODUCTION)	3
2. DETALLES DE CERTIFICACIÓN DE TIPO OACI (ICAO TYPE CERTIFICATE DETAILS)	4
3. DETALLES DE ACEPTACIÓN DE TIPO (TYPE ACCEPTANCE DETAILS)	4
4. REQUERIMIENTOS DE LOS R.A.C. PARTE 9A (COLOMBIAN R.A.C. PART 9TH DATA REQUIREMENTS)	4
5. REQUERIMIENTOS ADICIONALES DE LOS R.A.C. PARTE 4^{TA} (ADDITIONAL COLOMBIAN REQUIREMENTS R.A.C. PART 4TH)	5
APENDICE 1 - LISTA DE CHEQUEO DEL MOTOR (APPENDIX 1 – ENGINE CHECK LIST)	6
APENDICE 2 - ADJUNTOS (APPENDIX 2 - ATTACHMENTS)	9

RESUMEN (SUMMARY)

La aceptación de Tipo Colombiana ha sido otorgada para el modelo 250-C300/A1 de la compañía ROLLS-ROYCE CORPORATION, basado en el Certificado Tipo FAA No. E4CE.

Colombian Civil Aviation Authority grants Type Certificate Acceptance for the model 250-C300/A1 of the Rolls-Royce Corporation, based on the FAA Type Certificate No. E4CE.

1. INTRODUCCIÓN (INTRODUCTION)

Este reporte detalla los aspectos para la aceptación del Certificado Tipo de la FAA No. E4CE, de acuerdo con los RAC Parte 9ª literal **§9.1 (d) y 9.2.3**.

This report details the basis on which the FAA Type Certificate No. E4CE was accepted, in accordance with the RAC's, part 9.1 (d) and 9.2.3.

Específicamente este reporte está dirigido a:

Specifically the report aims to:

(a) Determinar los estándares de diseño del código de aeronavegabilidad asociados al certificado tipo extranjero para la aceptación de este modelo de este Tipo de Motor en Colombia.	<i>(a) State Design standards of the airworthiness code related to the foreign Type Certificate for the acceptance of this Engine model in Colombia.</i>
(b) Identificar cualquier condición especial, nivel equivalente de seguridad o excepción aplicable al modelo cubierto por el Certificado Tipo.	<i>(b) Identify any special condition, Safety Equivalent Level, or applicable exception to a model covered by the Type Certificate.</i>
(c) Establecer cualquier requerimiento adicional que deba ser cumplido.	<i>(c) Determine any additional requirement that must be complied.</i>

2. DETALLES DE CERTIFICACIÓN DE TIPO OACI (ICAO TYPE CERTIFICATE DETAILS)

El modelo 250-C300/A1 de la compañía Rolls-Royce Corporation, cumple con los estándares de aeronavegabilidad definidos en los anexos 8 y 16 de OACI, respecto a los requisitos de diseño, requisitos de aeronavegabilidad continuada y de ruido. El fabricante establece que no existe ninguna diferencia que deba ser evaluada.

The Rolls-Royce Corporation engine model 250-C300/A1 is in compliance with the ICAO annexes 8 and 16 about rules necessities for the design, continued airworthiness conditions and noise compliance. The manufacturer establishes that there is no difference that should be evaluated.

3. DETALLES DE ACEPTACIÓN DE TIPO (TYPE ACCEPTANCE DETAILS)

La aplicación para la aceptación del Certificado Tipo del Motor modelo 250-C300/A1 fue recibida del fabricante el día 11 de Marzo de 2011 y fue aprobada el día 31 de Agosto de 2011, basada en el Certificado Tipo de la FAA No. E4CE.

The application for Colombian type certificate acceptance of the Rolls-Royce Corporation engine model 250-C300/A1 was received from the manufacturer, on March 11th, 2011. The Type Acceptance Certificate was approved on August 31th, 2011, based on validation of FAA Type Certificate No. E4CE.

4. REQUERIMIENTOS DE LOS RAC PARTE 9ª (COLOMBIAN RAC PART 9th DATA REQUIREMENTS)

Los requerimientos establecidos en la parte Novena de los RAC han sido cumplidos y se sustentan en la hoja de datos del Certificado Tipo FAA No. E4CE revision 42 y con los siguientes documentos:

The Type Data requirements of RAC Part 9 have been satisfied according to the Type Certificate Data Sheet FAA No. E4CE revision 42 and the following documents:

(1) Certificados Tipos (*Type certificates*):

- FAA No. E4CE Rev. 42, dated June 29th, 2010

(2) Resumen de los ítems de Certificación (*Summary certification item*)

- Issue Paper G-1 Certification basis.
- EDR 22090 dated Dec. 21, 2007. Model 250-C300/A1 FAA Certification Summary Report.

Model 250-C300/A1:

Certification Basis: 14 CFR Part 33 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 33-1 through 33-4; plus Amendment 9 Section 33.4 (Instructions for Continued Airworthiness), and Exemption No. 219 from Part 33.69. Fuel Venting and Exhaust Emissions Standards 14 CFR Part 34, effective September 10, 1990, including Amendments 34-1 through 34-3.

(3) Documentación técnica del fabricante (*Maintenance Manuals, Operating Manuals and Service Instructions*)

Model	Document	Revision	Issue Date
250-C300/A1	CSP 21009 Operation and Maintenance Manual	Revision 2	9/15/2010
	CSP 24013 Installation Design Manual	Revision 3	9/1/2010

5. REQUERIMIENTOS ADICIONALES DE LOS RAC PARTE 4^a
(ADDITIONAL COLOMBIAN REQUIREMENTS RAC PART 4TH)

Not Applicable.

APENDICE 1 - LISTA DE CHEQUEO DEL MOTOR (APPENDIX 1 – ENGINE CHECK LIST)

CERTIFICADO TIPO (<i>Type Certificate</i>):	FAA No.E4CE Revision 42 , Dated June 29, 2010
FABRICANTE (<i>Manufacturer</i>):	ROLLS-ROYCE CORPORATION Indianapolis, Indiana USA Contact Person: Timothy M. Youngs – Applications Engineer Tim.m.youngs@rolls-royce.com Tel: 317-230-2745 Fax: 317-230-4930
PLANTA MOTRIZ (<i>Engine</i>):	Model 250-C300/A1
OPERADOR NACIONAL (<i>National Operator</i>):	TO BE DEFINED
FUNCIONARIO(S) (<i>Team</i>):	JAIRO SORA TORRES
REGULACIONES R.A.C. (<i>R.A.C. Regulation</i>):	Paragraph 9.1. d). Paragraph 9.2.3.

DOCUMENTACION (<i>DOCUMENTS</i>)	CUMPLIMIENTO (DOCUMENTOS REVISADOS)
1. DATOS GENERALES DEL CERTIFICADO TIPO (<i>Type Certificate Data Sheets</i>):	REVISION ACTUAL (Current Issue): 42 FECHA DE REVISION (Issue Date): June 29 , 2010
2. Lista de Chequeo De Conformidad Código De Aeronavegabilidad (<i>Compliance Check List airworthiness code</i>):	EDR 22090 dated Dec. 21, 2007. Model 250-C300/A1 FAA Certification Summary Report.
3. Lista Maestra de Planos (<i>Master Drawing List or Type Build Standard (TBS)</i>):	Not Applicable
4. NIVELES EQUIVALENTES DE SEGURIDAD (<i>Equivalent Level Of Safety –ELOS</i>)	None

5. ISSUE PAPERS	<p>The G-1 paper, issued January 4, 2006 defined the basis of Certification for the engine.</p> <p>The following certification basis applies to the Rolls-Royce Corporation model 250-C300 turboshaft engine:</p> <p>Airworthiness Standards</p> <p>Title 14 Code of Federal Regulation (CFR) part 33 effective February 1, 1965, as amended by Amendments 33-1 through 33-4, plus Amendment 9 Section 33.4 (Instructions for Continued Airworthiness), and Exemption No. 2087B from Part 33.69, regulatory Docket No. 13294 issued February 24, 1975, and amended December 10, 1991 (Docket No. 26072).</p> <p>Environmental Standards</p> <p>Fuel Venting and Exhaust Emissions Standards 14 CFR Part 34, effective September 10, 1990, including Amendments 34-1 through 34-3</p> <p>Additional Design Reviews:</p> <p>Compliance with the established basis for type certification notwithstanding, §21.21(b)(2) precludes issuance of a type certificate if there is any feature or characteristic that would make the product unsafe. Should it be determined that such an unsafe feature or characteristic exists, approval of the type certificate will be withheld pending acceptable action taken by the applicant to correct the unsafe feature or characteristic. At this time, no subjects have been identified for further review and evaluation. This certification basis is considered final until such time as further changes are deemed necessary. Thus, this issue paper is considered closed.</p>
6. EXCEPCIONES (Exceptions)	<p>All engines produced under this type certificate have single ignition systems. Exemption No. 219B applicable to requirements in CAR 13.211 (as well as 14 CFR Part 33.69 requirements for the 250-C300/A1 and -C300/B1), dated December 10, 1991 permits the type certification of all engines on this type certificate data sheet with single ignition for use in all rotorcraft, regardless of whether the rotorcraft is certificated under Part 6 or Part 7 of the CAR, or 14 CFR Part 27 or Part 29, and regardless of whether the rotorcraft is designated as Category A or Category B.</p>
7. Plano en tres vistas del conjunto (impreso o copia) (views assembly drawing (Printed or blueprint)):	<p>Ver APENDICE 2 - ADJUNTOS See APPENDIX 2 - ATTACHMENTS</p>
8. MANUAL DE MANTENIMIENTO (Maintenance Manual):	<p>CSP 21009 Operation and Maintenance Manual Rev. 2, Sept. 15/2010</p>
9. CATALOGO ILUSTRADO DE PARTES (Illustrated Parts Catalogue):	<p>CSP 23004 , Rev. 4 dated September 15, 2010</p>
10. BOLETINES DE SERVICIO, (Service Bulletins):	<p>Service Bulletins www.aeromanager.com</p>
11. DIRECTIVAS DE AERONAVEGABILIDAD (Airworthiness Directives):	<p>PAGINA WEB FAA http://www.faa.gov</p>
12. CERTIFICACION DE RUIDO (Noise Compliance):	<p>See Model R66 POH Section 5-12</p>
13. BASES DE	<p>Model 250-C300/A1:</p>

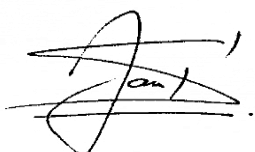
<p>CERTIFICACION (<i>Certification Basis</i>) :</p>	<p>Certification Basis: 14 CFR Part 33 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 33-1 through 33-4; plus Amendment 9 Section 33.4 (Instructions for Continued Airworthiness), and Exemption No. 219 from Part 33.69. Fuel Venting and Exhaust Emissions Standards 14 CFR Part 34, effective September 10, 1990, including Amendments 34-1 through 34-3.</p>
---	--

APENDICE 2 - ADJUNTOS (APPENDIX 2 - ATTACHMENTS)

Los siguientes documentos son adjuntos de este informe:
The following documents are attached to this report:

- Copia del Certificado Tipo de FAA, Numero E4CE
Copy of FAA Type Certificate, Number E4CE.

Firmas (Signatures)



.....
Jairo Sora Torres
Inspector de Seguridad Aérea
Air Safety Inspector
(UAEAC - Technical Group Engineer)



.....
Edgar L. Cadena Cañón
Jefe de Grupo Técnico – UAEAC
(UAEAC- Technical Group Chief)

The United States of America

Department of Transportation
Federal Aviation Administration

ENGINE

Type Certificate

Number E4CE

This certificate issued to Rolls-Royce Corporation
certifies that the type design for the following product with the operating limitations and
conditions therefor as specified in the Federal Aviation Regulations and the Type
Certificate Data Sheet, meets the airworthiness requirements of Part 13 of the Civil Air

	Regulations.	Models:	250-C10	250-C10B	250-C10D	225-C10
225-C10A	250-C18	250-C18A	250-C18B	250-C18C	250-C19	250-C20
250-C20B	250-C20C	250-C20F	250-C20J	250-C20R	250-C20R/1	250-C20R/2
250-C20R/4	250-C20S	250-C20W	250-C300/A1			

This certificate, and the Type Certificate Data Sheet which is a part hereof, shall
remain in effect until surrendered, suspended, revoked, or a termination date is otherwise
established by the Administrator of the Federal Aviation Administration.

Date of application: September 15, 1961

Date of issuance: December 19, 1962; 250-C10B, 250-C18, 250-C18A, September 9, 1965; 250-C18B, 250-C18C,
September 25, 1967; 250-C19, April 29, 1968; 250-C10D, November 15, 1968; 250-C20, April 22, 1970; 250-C20B,
February 28, 1974; 250-C20C, June 9, 1976; 250-C20F, March 2, 1979; 250-C20J, September 15, 1981; 250-C20S,
December 30, 1983; 250-C20R/1, September 12, 1986; 250-C20R/2, March 5, 1987; 225-C10, 225-C10A, March 20,
1987; 250-C20R, September 29, 1989; 250-C20R/4, December 5, 1989; 250-C20W, April 20, 1990; 250-C300/A1,
December 21, 2007

By direction of the Administrator.

Date Reissued:
December 1, 1993
September 1, 2000 (to Rolls-Royce Corporation)

(Signature)

Royce H. Prather

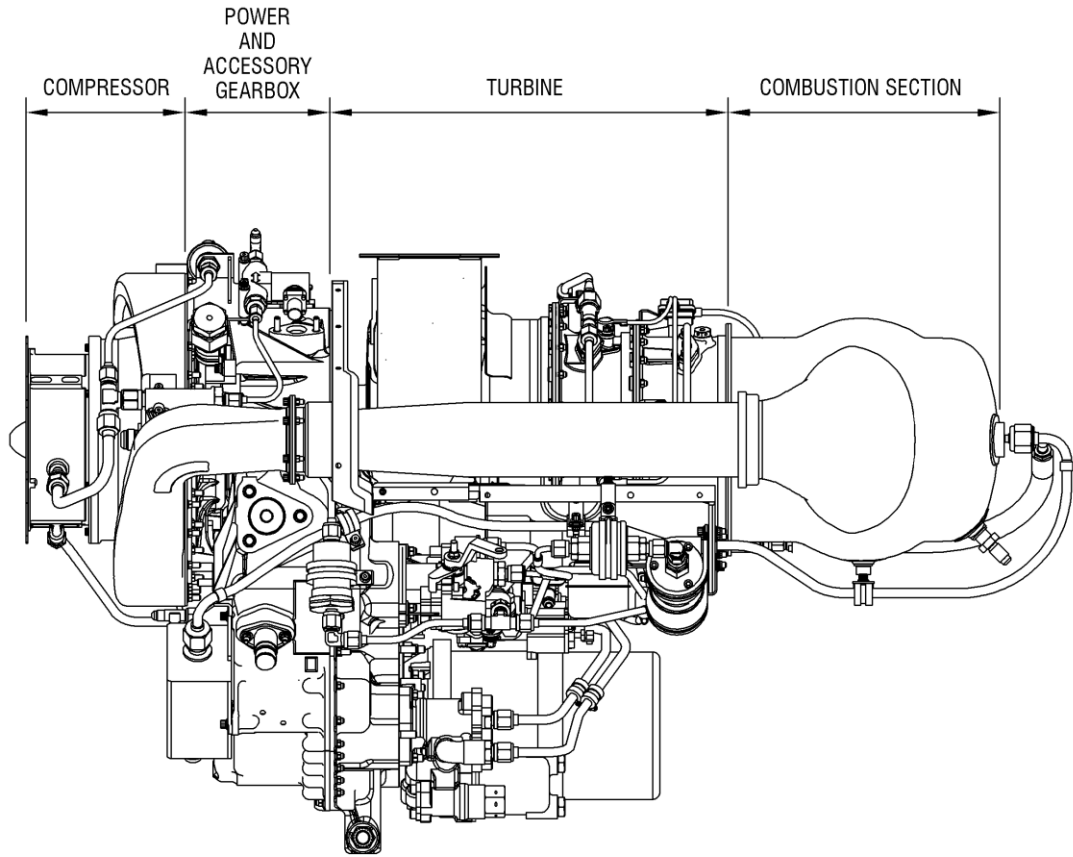
Royce H. Prather
Manager, Chicago Aircraft Certification Office

(Title)

This certificate may be transferred if endorsed as provided on the reverse hereof.

Any alteration of this certificate and/or the Type Certificate Data Sheet is punishable by a fine of not exceeding
\$1,000, or imprisonment not exceeding 3 years, or both.

FAA FORM 8110-9 (2-82)



Engine Drawing