Reporte de Aceptación de Certificado Tipo

Type Certificate Acceptance Report

INTERSTATE AVIATION COMMITEE

AVIATION REGISTER TC No. 132-171 A Edition 03

"MIL Moscow Helicopter Plant" MI-171 A1

GSAC-4.0-8-02
Versión: 01
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RESUMEN (SUMMARY)

La aceptación de Tipo Colombiana ha sido otorgada para el modelo MI-171 A1 de la compañía "Mil Moscow Helicopter Plant", basado en el Certificado Tipo "Interstate Aviation Committe - Aviation Register" No. 132-171A.

Colombian Civil Aviation Authority grants Type Certificate Acceptance for the model MI-171 A1 of the Moscow Helicopter Plant , based on the "Interstate Aviation Committee - Aviation Register" No. 132-171A.

La aplicabilidad es para el modelo MI-171 A1, el cual es elegible para la emisión de un certificado de Aeronavegabilidad estándar de acuerdo con los Reglamentos Aeronáuticos Colombianos RAC numeral 4.4.1.8., esta aceptación estará sujeta a cualquier requerimiento excepcional operacional que requiera ser cumplido (Ver ítem 5 de este reporte para una revisión del cumplimiento del diseño básico con las reglas operacionales).

The Applicability is for the MI-171 A1 model, which are eligible for the issue of a Standard Airworthiness Certificate according to Colombian Regulations - RAC section 4.4.1.8. This Acceptance is subject to any outstanding Colombian operational requirement. (See item 5 of this report for review of compliance of the basic type design with the operating rules)

1. INTRODUCCIÓN *(INTRODUCTION)*

Este reporte detalla los aspectos para la aceptación del Certificado Tipo del "Interstate Aviation Committe Aviation Register" No. 132-171A, de acuerdo con los RAC Parte 9ª literal **§9.1 (d) y 9.2.3,** con el objeto de emitir un certificado de aeronavegabilidad estándar en Colombia.

*This report details the basis on which the "Interstate Aviation Committe - Aviation Register" Type Certificate No. 132-171A was accepted, in accordance with the RAC's, part **9.1 (d)** and* **9.2.3**, *in order to issue a Colombian Standard Airworthiness Certificate.*

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 Helicóptero en Colombia.	*(a) State Design standards of the airworthiness code related to the foreign Type Certificate for the acceptance of this Helicopter model in Colombia.*
(b) Identificar cualquier condición especial, nivel equivalente de seguridad o excepción aplicable al modelo cubierto por el Certificado Tipo.	*(b) Identify any special condition, Safety Equivalent Level, or applicable exception to a model covered by the Type Certificate.*
(c) Establecer cualquier requerimiento adicional que deba ser cumplido, para emitir el Certificado de Aeronavegabilidad Estándar en Colombia.	*(c) Determine any additional requirement that must be complied, in order to issue a Colombian Standard Airworthiness Certificate*

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

El modelo MI-171 A1 de la compañía "MIL Moscow Helicopter Plant", 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 "MIL Moscow Helicopter Plant" model MI-171 A1, is in compliance with the ICAO annexes 8 and 16 about rules necessaries 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 Helicóptero modelo MI-171 A1 fue recibida del fabricante el día 13 de Octubre de 2011 y fue aprobada el día 29 de Noviembre de 2012, basada en el Certificado Tipo del Comité Interestatal de Aviación - Registro Aeronáutico No. 132-171 A. Como complemento al proceso de aceptación del Certificado Tipo dos Ingenieros de la UAEAC, visitaron la planta de "Mil Helicopter", en Moscú, Rusia.

The application for Colombian type certificate acceptance of the model MI-171 A1 was received from the manufacturer, on October 13, 2011. The Type Certificate Acceptance was approved on November 29, 2012, based on validation of the "Interstate Aviation Committee - Aviation Register" Type Certificate No. 132-171A. As complement of the TC acceptance validation process two UAEAC certification Engineers visited the "Mil Helicopter Plant" in Moscow, Russia.

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 del "Comité Interestatal de Aviación Registro Aeronáutico" No. 132-171 A "Edición 03" y con los siguientes documentos:

The Type Data requirements of RAC Part 9 have been satisfied according to the Type Certificate Data Sheet "Interstate Aviation Committee - Aviation Register" No. 132-171A "Edition 03" and the following documents:

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

- "Interstate Aviation Committee - Aviation Register" Type Certificate No. 132-171A Rev. Original, dated 03 July, 1997. (MI-171 A1 Model, Transport category A and B Helicopter)

- "Interstate Aviation Committee - Aviation Register" Type Certificate No. 34-D (Two TV3-117VM (Russian alphabet: TB3-117BM) or Two TV3-117VM series 02 turboshaft engines)

- "Interstate Aviation Committee - Aviation Register" Type Certificate No. 143-VD (Russian alphabet: 143-ВД), APU AI-9V (Russian alphabet АИ-9В).

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

Model	Document	Issue Date
MI-171 A1	MI-171 A Helicopter Compliance Check List (FAR 29)	16-10-2000
	List of proof documentation to the MI 171 A Helicopter Compliance Check List (FAR 29)	
	MI-171 A1- Master Drawing List No. 171 A1-000 ППЧ	
	Technical Specifications No. 171 A.0000.00 TY	30.06.2005
	Flight Manual Part 2 Design Data (Description of Systems and Equipment)	18.02.2005
	MI-17 Helicopter APU AI-9V Check list of Compliance with TSO C77a.	21.06.1990

Bases de Certificación *(Certification Basis*):

Certification Basis CB 17.29 with supplement No. 4, the requirements of the RBHA 29, corresponding to FAR PART 29 including amendments 1 through 32 effective on September 16, 1991 except RBHA /FAR 29.561 and 29.562 for amendment 26, and other requirements for which CTA found necessary to provide the level of safety equivalent to the level of safety specified in the applied Brazilian requirements. RBHA 36 corresponding to ICAO 16 dated 3, 1993, and the Equivalent Level of Safety:

- Passenger emergency exit (FCAR HES-01)
- Rotor drive system certification (FCAR HPR-01)
- Engine power indicator (FCAR HPR-02)
- Free power turbine speed indicator (FCAR HPR-03)

CERTIFICATION DOCUMENTATION

1. The MI -171 Helicopter Technical note No. 14 (about meeting the requirements of FAR Part 29, No. 29.141, 29.143, 29.171, 29.173, 29.175, 29.177, 29.181 and 29.231)

2. Report No. 1104-79-II on the results of the flight test conducted on Mi-171 helicopter prototype to determine trim characteristics at low airspeeds in ground effect.
3. Report No. 31-79 On results of the Mi-171 helicopter prototype flight test conducted to study the effect of time delay in control corrective action with one engine inoperative on boundaries of right-hand limiting height – speed envelope.
4. Report No. 29-79 On results of the Mi-171 helicopter prototype flight test conducted to determine performance in autorotation and landing performance after complete power loss at level cruise flight
5. Report No. 1063-75-II concerning flight determination of static characteristics of the Mi-171 helicopter prototype lateral motion.
6. Report No. 33-91 about results of ground and flight test conducted to update Mi 171 helicopter performance for its certification in compliance with FAR Part 29 requirements.
7. Report No. 13-92 on the results of Mi-171 helicopter prototype flight test conducted to show performance compliance with FAR Part 29 requirements for hot weather operation.
8. Report No. 764-74-II on the results of the MI 171 helicopter prototype flight test conducted to establish the lower boundary of the limiting height-velocity envelope with one engine inoperative.
9. Statement on the results of check flight tests of the MI-171 helicopter prototype No. 0515.
10. Statement on the results of the MI-171 helicopter prototype joint qualification check test (Contract No. 1247-117/90-91).
11. Statement No. 52/375101-031 on the results of special joint test to evaluate controllability and stability conducted on the MI-171 helicopter prototype equipped with a tail rotor of opposite direction of rotation.
12. Report No. 12-94 on the results of the test of the MI-171 helicopter prototype (No. 0203) equipped with emergency flotation system.
13. Report Calculation of MI-171 helicopter control margins in extremely hot-and-high flight conditions.
14. Statement No. 1/171-97 on the results of the MI-171 helicopter certification factory test.
15. The MI-171 Helicopter Technical Note 31. On meeting the requirements of FAR Part 29. No. 29.235, 29.301,29.303, 29.305, 29.307, 29.309, 29.321, 29.307, 29.339, 29.341, 29.351,29.361, 29.395, 29.397, 29.399, 29.401, 29.403, 29.411, 29.413, 29.471,29.473, 29.475, 29.477, 29.479, 29.481, 29.483, 29.485, 29.493, 29.511, 29.549, 29.561 (b)(c), 29.563, 29.613, 29.619, 29.621, 29.625, 29.632, 29.681.
16. The MI-171 Helicopter Technical Note 80a on meeting the requirements of FAR Part 29, No. 29.801 29.1415.
17. Report on the proof of compliance with airworthiness standards requirements of the MI-171 helicopter landing (landing of the water) with one engine inoperative.

18. Report No. 12-94 on the results of the test of the Mi-171 helicopter prototype (No. 0203) equipped with emergency floatation system.
19. Technical Note No. 31-b on meeting the requirements of FAR Part 29 No. 29.563 , 29.801
20. Technical Note No. 41 on meeting the requirements of FAR Part 29 No. 29.853
21. Technical Note No. 13 on meeting the requirements of FAR Part 29 29. 851(a), 29.859(a), (c), (d),(e), (f), (g), (h), (i); 29.861; 29.863; 29.1181; 29.1185; 29.1187; 29.1195; 29.1199; 29.1201; 29.1203

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

Model	Document	Issue Date
MI-171 A1	Rotorcraft Flight Manual No. 171A1.0000.00 РЛЭ. (Supplement No. 6)	18.02.2005
	Rotorcraft Maintenance Manual No. 171A1.0000.00 РЭ (Amendment No. 1 , 30.06.2005)	03.03.2005
	Rotorcraft Maintenance Schedule No. 171A1.0000.00 PO (Amendment No. 1 , 30.06.2005)	03.03.2005
	Flight Manual Cargo Version	21.07.2005 (IAC-AR)
	MI 171 A1 Helicopter, Master Minimum Equipment List (MMEL)	19.04.2005 (IAC-AR)

Type Validation Operational and Airworthiness Limitations:

All indicated in the following documents:

- Rotorcraft Flight Manual No. 171A1.0000.00 РЛЭ. (Supplement No. 6), Section 1 - Limitations.
- MI 171 A1 MAINTENANCE MANUAL Chapter 004.00.00 – Airworthiness Limitations
- TYPE CERTIFICATE DATA SHEET Nº 132-171A

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

A continuación se listan los requerimientos de aeronavegabilidad adicionales para la emisión de un certificado de aeronavegabilidad estándar en Colombia, definidos en la Parte Cuarta, Capitulo II - “Requisitos generales de aeronavegabilidad”, Capítulo V- Normas y Requisitos Especiales de Aeronavegabilidad para Aeronaves de Servicio Aéreo Comercial de Transporte Público Regular, Capitulo IX - Normas Y Requisitos Especiales De Aeronavegabilidad Para Aeronaves De Ala Rotatoria (Helicópteros) y Novena de los RAC.

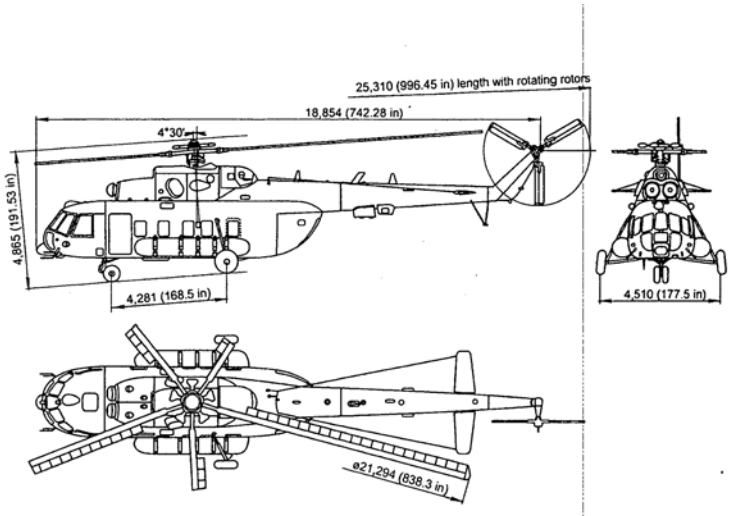
Compliance with the requirements for the expedition of a Standard Airworthiness Certificate, to operate in Colombia, is according with RAC's regulations inside its part IV, Chapters II, Chapter VI and Chapter IX Rules.

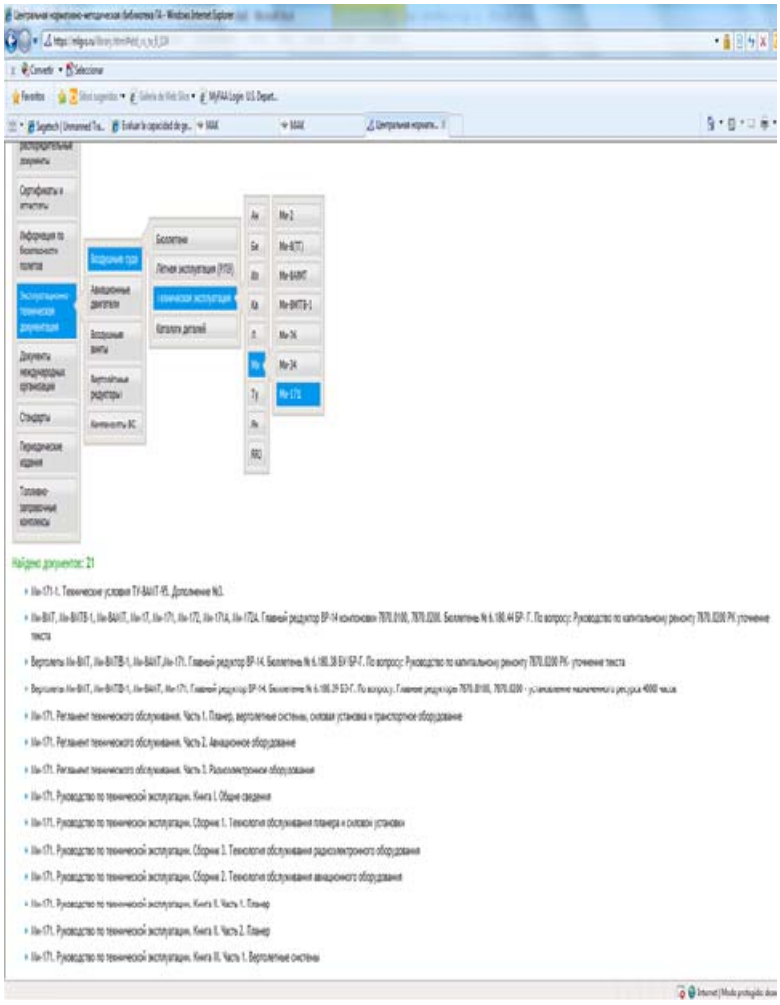
Norma (*Rule*)	**Descripción del requerimiento (*Description*)**
4.2.2.3.	AERONAVES CIVILES MOTORIZADAS CON CERTIFICADO DE AERONAVEGABILIDAD ESTÁNDAR DE LA REPÚBLICA DE COLOMBIA (REQUISITOS DE INSTRUMENTOS Y EQUIPO) *CIVILIAN ENGINE POWERED AIRCRAFT WITH COLOMBIAN STANDARD AIRWORTHINESS CERTIFICATE (INSTRUMENT AND EQUIPMENT REQUIREMENTS)*
4.2.2.4.	TRANSMISOR LOCALIZADOR DE EMERGENCIA (ELT) Uno (fijo), transmisor de dos frecuencias (121.5 y 406.0 MHz). TSO – C126 *EMERGENCY LOCATOR TRANSMITER (ELT)* *One (fixed) 2 frequencies transmitter (121.5 and 406.0 MHz). TSO – C126*
4.2.2.5	LUCES DE AERONAVES *AIRCRAFT'S LIGHTS*
4.2.2.7	INSTRUMENTOS Y EQUIPOS INOPERATIVOS *INOPERATIVE EQUIPMENTS AND INSTRUMENTS*
4.2.2.8	USO DE TRANSPONDER ATC *ATC TRANSPONDER RIGHT USE*
4.2.2.10	SISTEMA DE ALERTA DE ALTITUD – Un sistema *ALTITUDE ALERT SYSTEM – One system*
4.2.2.14	SEÑALAMIENTO DE LAS ZONAS DE PENETRACION DEL FUSELAJE
4.6.3.7 4.9.3.4.	REGISTRADORES DE DATOS DE VUELO (FDR) – *FLIGHT DATA RECORDER (FDR) – One system.*
4.5.6.33 4.9.3.6	REQUERIMIENTO DEL EQUIPO DE RADAR METEOROLOGICO – Un sistema *WEATHER RADAR EQUIPMENT REQUERIMENTS – One system*
4.6.3.6 4.9.3.4.	GRABADORES DE VOZ EN LA CABINA DE MANDO (CVR) – Un sitema *COCKPIT VOICE RECORDER (CVR) – One system*
4.9.3.3.	PROVISIONES DE OXIGENO *OXYGEN PROVISIONS*
9.2.3 literal d) 4	PLACAS: IDIOMA ESPAÑOL O ESPAÑOL E INGLES *PLACARDS: SPANISH OR ENGLISH AND SPANISH*

APENDICE 1 - LISTA DE CHEQUEO DEL HELICOPTERO
(APPENDIX 1 – HELICOPTER CHECK LIST)

CERTIFICADO TIPO (*Type Certificate*):	"Interstate Aviation Committee Aviation Register" Type Certificate No. 132-171A Rev. Original, dated 03 July, 1997.
FABRICANTE (*Manufacturer*):	MIL MOSCOW HELICOPTER PLANT Moscow RUSSIAN FEDERATION Contact Person: Mr. Viktor V. Tolmachev – Chief Engineer of the Project vtolmachev@mi-helicopter.ru
PLANTA MOTRIZ (*Engine*):	Two TV3-117VM or Two TV3-117VM Series 02. (Russian alphabet: TB3-117BM)
OPERADOR NACIONAL (*National Operator*):	VERTICAL DE AVIACION SAS
FUNCIONARIO(s) (*Team*):	ING. JAIRO SORA TORRES ING. EDGAR CADENA CAÑON
REGULACIONES R.A.C. (R.A.C. *Regulation*):	Paragraph 9.1. d). Paragraph 9.2.3.

DOCUMENTACION *(DOCUMENTS)*	**CUMPLIMIENTO (DOCUMENTOS REVISADOS)**
1. DATOS GENERALES DEL CERTIFICADO TIPO (*Type Certificate Data Sheets*):	• *"Interstate Aviation Committee - Aviation Register" Type Certificate No. 132-171A Rev. Original, dated 03 July, 1997. (MI-171 A1 Model, Transport category A and B Helicopter)* • *"Interstate Aviation Committee - Aviation Register" Type Certificate No. 34-D* *(Two TV3-117VM (Russian alphabet: TB3-117BM) or Two TV3-117VM series 02 turboshaft engines)* • *"Interstate Aviation Committee - Aviation Register" Type Certificate No. 143-VD (Russian alphabet: 143-ВД), APU AI-9V (Russian alphabet АИ-9В).*
2. Lista de Chequeo De Conformidad Código De Aeronavegabilidad *(Compliance Check List airworthiness code):*	MI-171 A- Compliance Check List, dated 16-10-2000
3. Lista Maestra de Planos *(Master Drawing List*	MI-171 A1- Master Drawing List No. 171 A1-000 ППЧ

or Type Build Standard (TBS)):	
4. NIVELES EQUIVALENTES DE SEGURIDAD *(Equivalent Level Of Safety –ELOS)*	Passenger Emergency exit (FCAR HES-01) Rotor Drive System certification (FCAR HPR-01) Engine power indicator (FCAR HPR-02) Free Power Turbine Speed Indicator (FCAR HPR-03)
5. ISSUE PAPERS	FCAR (Ficha de Control de Asuntos Relevantes – Issue Paper) Passenger Emergency exit (FCAR HES-01) Rotor Drive System certification (FCAR HPR-01) Engine power indicator (FCAR HPR-02) Free Power Turbine Speed Indicator (FCAR HPR-03)
6. EXCEPCIONES (Exceptions)	EMERGENCY LANDING CONDITION Except RBHA /FAR 29.561 and 29.562 for amendment 26. 29.561 General 29.562 Emergency Landing Dynamic conditions
7. Plano en tres vistas del conjunto (impreso o copia) *(views assembly drawing (Printed or blueprint)):*	See APPENDIX 2 - ATTACHMENTS  Three-View General Arrangement of Helicopter

8. MANUAL DE MANTENIMIENTO *(Maintenance Manual):*	No. 171A1.0000.00 РЭ, dated 03.03.2005 (Amendment No. 1 , 30.06.2005)
9. MANUAL DE VUELO DEL HELICOPTERO *(Rotorcraft Flight Manual)):*	No. 171A1.0000.00 РЛЭ, dated 18.02.2005
10. BOLETINES DE SERVICIO, *(Service Bulletins):*	**Service Bulletins** **http://www.mlgvs.ru/** Информационно-аналитическая система мониторинга лётной годности воздушных судов (sistema informático de monitoreo de la aeronavegabilidad de las aeronaves) 

11. DIRECTIVAS DE AERONAVEGABILIDAD *(Airworthiness Directives):*	**MAK web site:** http://www.mak.ru/english/english.html
12. CERTIFICACION DE RUIDO *(*Noise *Compliance):*	Type Noise certificate No. 88 (See APPENDIX 2 – ATTACHMENTS) RBHA 36 corresponding to ICAO 16 dated 3, 1993
13. BASES DE CERTIFICACIÓN (*Certification Basis*) :	Certification Basis CB 17.29 with supplement No. 4, the requirements of the RBHA 29, corresponding to FAR PART 29 INCLUDING AMENDMENTS 1 THROUGH 32 EFFECTIVE ON September 16, 1991 except RBHA /FAR 29.561 and 29.562 for amendment 26, and other requirements for which CTA found necessary to provide the level of safety equivalent to the level of safety specified in the applied Brazilian requirements. RBHA 36 corresponding to ICAO 16 dated 3, 1993. and the Equivalent Level of Safety: • Passenger emergency exit (FCAR HES-01) • Rotor drive system certification (FCAR HPR-01) • Engine power indicator (FCAR HPR-02) • Free power turbine speed indicator (FCAR HPR-03)

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 del Comité Interestatal de Aviación- Registro Aeronáutico No. 132-171 A.
(Copy of Interstate Aviation Committee- Aviation Register Type Certificate No. 132-171 A).

☒ Copia del Certificado Tipo de Ruido emitido por el Comité Interestatal de Aviación- Registro Aeronáutico No. 88.
(Copy of Interstate Aviation Committee- Aviation Register Noise Type Certificate No. 88).

☒ Otros: Vista planos en 3 dimensiones.
(Other): Helicopter Drawing Three Views.

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)

МЕЖГОСУДАРСТВЕННЫЙ АВИАЦИОННЫЙ КОМИТЕТ
INTERSTATE AVIATION COMMITTEE

АВИАЦИОННЫЙ РЕГИСТР
AVIATION REGISTER

СЕРТИФИКАТ

ТИПА

TYPE CERTIFICATE

№ 132-171А

ИЗДЕЛИЕ
PRODUCT
вертолет Ми-171А

НАСТОЯЩИЙ СЕРТИФИКАТ ВЫДАН АООТ Московский вертолетный завод им. М.Л.Миля г. Москва, Россия
THIS CERTIFICATE IS ISSUED TO

УДОСТОВЕРЯЕТСЯ, ЧТО ТИПОВАЯ КОНСТРУКЦИЯ
IT IS HEREBY CERTIFIED THAT THE TYPE DESIGN OF THE

вертолета Ми-171А соответствует требованиям сертификационного базиса СБ 17.29

ОСНОВНЫЕ ЭКСПЛУАТАЦИОННЫЕ ОГРАНИЧЕНИЯ И ХАРАКТЕРИСТИКИ ТИПА СОДЕРЖАТСЯ В КАРТЕ ДАННЫХ, КОТОРАЯ ЯВЛЯЕТСЯ НЕОТЪЕМЛЕМОЙ ЧАСТЬЮ НАСТОЯЩЕГО СЕРТИФИКАТА.
THE PRINCIPAL PERFORMANCE CHARACTERISTICS AND OPERATING LIMITATIONS CONTAINED IN THE DATA SHEET FORMING INTEGRAL PART OF THIS CERTIFICATE.

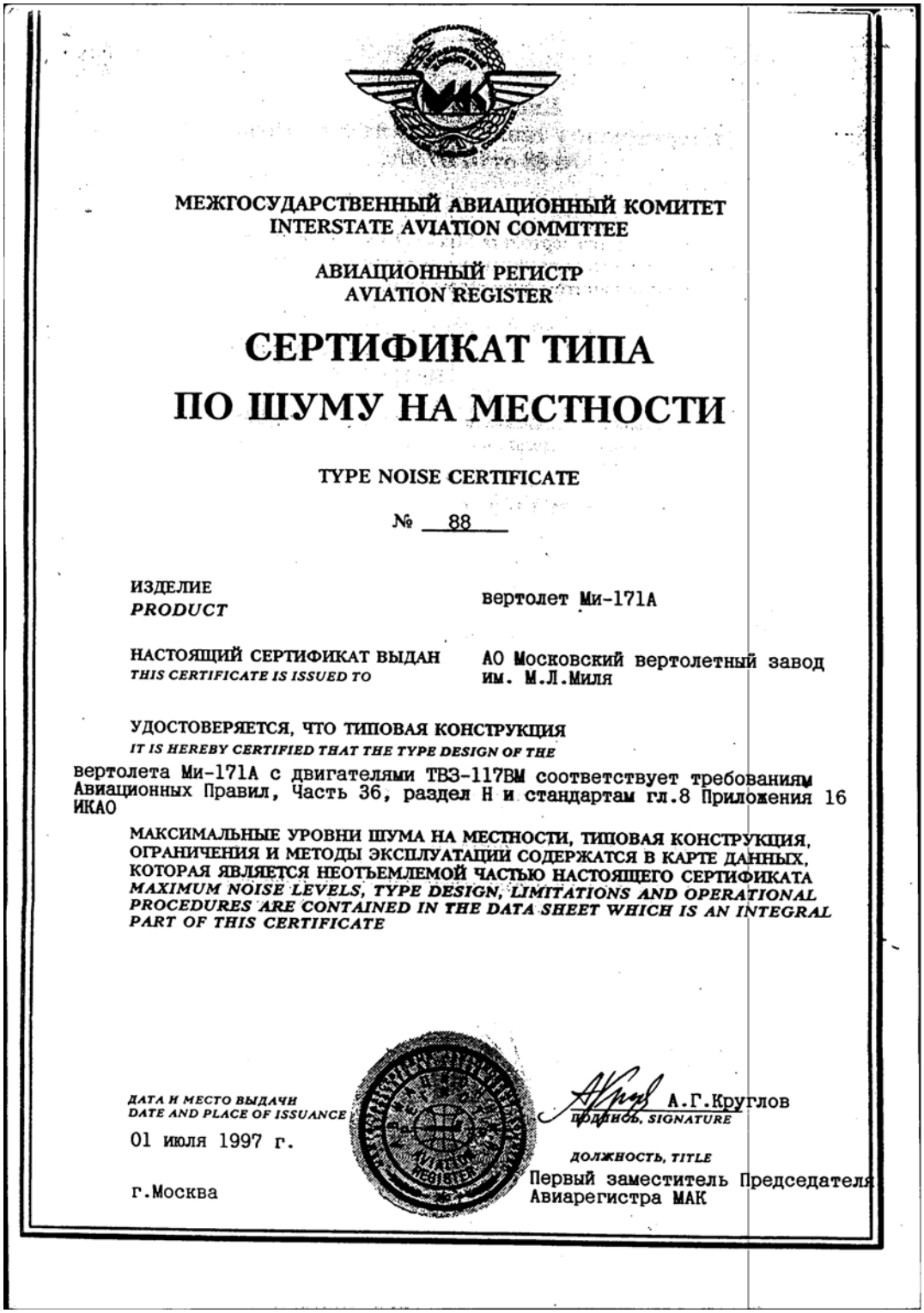
ДАТА И МЕСТО ВЫДАЧИ
DATE AND PLACE OF ISSUANCE

03 июля 1997 г.

г. Москва

ПОДПИСЬ, SIGNATURE

ДОЛЖНОСТЬ, TITLE
Председатель Авиационного регистра МАК



МЕЖГОСУДАРСТВЕННЫЙ АВИАЦИОННЫЙ КОМИТЕТ
INTERSTATE AVIATION COMMITTEE

АВИАЦИОННЫЙ РЕГИСТР
AVIATION REGISTER

СЕРТИФИКАТ ТИПА
ПО ШУМУ НА МЕСТНОСТИ

TYPE NOISE CERTIFICATE

№ 88

ИЗДЕЛИЕ
PRODUCT вертолет Ми-171А

НАСТОЯЩИЙ СЕРТИФИКАТ ВЫДАН
THIS CERTIFICATE IS ISSUED TO АО Московский вертолетный завод им. М.Л.Миля

УДОСТОВЕРЯЕТСЯ, ЧТО ТИПОВАЯ КОНСТРУКЦИЯ
IT IS HEREBY CERTIFIED THAT THE TYPE DESIGN OF THE
вертолета Ми-171А с двигателями ТВ3-117ВМ соответствует требованиям Авиационных Правил, Часть 36, раздел Н и стандартам гл.8 Приложения 16 ИКАО

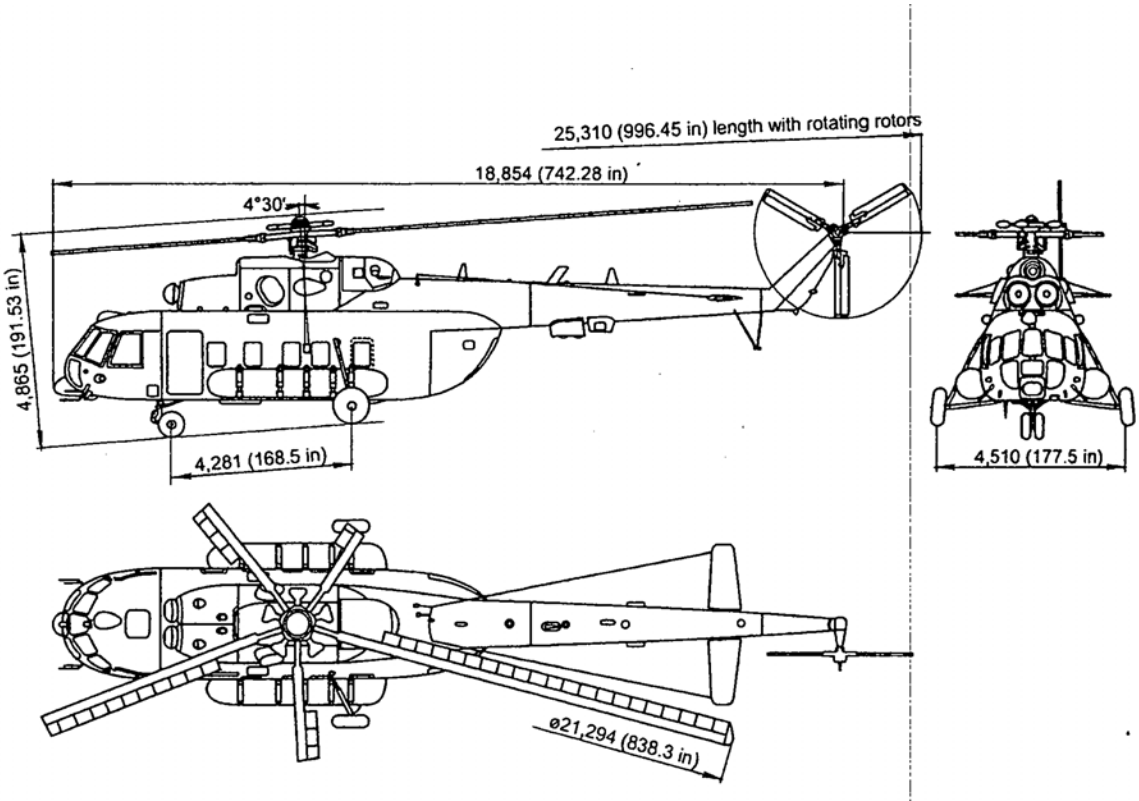
МАКСИМАЛЬНЫЕ УРОВНИ ШУМА НА МЕСТНОСТИ, ТИПОВАЯ КОНСТРУКЦИЯ, ОГРАНИЧЕНИЯ И МЕТОДЫ ЭКСПЛУАТАЦИИ СОДЕРЖАТСЯ В КАРТЕ ДАННЫХ, КОТОРАЯ ЯВЛЯЕТСЯ НЕОТЪЕМЛЕМОЙ ЧАСТЬЮ НАСТОЯЩЕГО СЕРТИФИКАТА
MAXIMUM NOISE LEVELS, TYPE DESIGN, LIMITATIONS AND OPERATIONAL PROCEDURES ARE CONTAINED IN THE DATA SHEET WHICH IS AN INTEGRAL PART OF THIS CERTIFICATE

ДАТА И МЕСТО ВЫДАЧИ
DATE AND PLACE OF ISSUANCE
01 июля 1997 г.

г.Москва

А.Г.Круглов
ПОДПИСЬ, SIGNATURE

ДОЛЖНОСТЬ, TITLE
Первый заместитель Председателя Авиарегистра МАК



Three-View General Arrangement of Helicopter