



(BRAZILIAN CIVIL AVIATION AUTHORITY)

MAINTENANCE ORGANIZATION CERTIFICATE

COM No. 1107-41/ANAC (MAINTENANCE ORGANIZATION CERTIFICATE No. 1107-41/ANAC)

**CERTIFICATION BASIS RBAC 145**

This Certificate, issued in favor of **NATIONAL FLIGHT SERVICES, INC.**, whose facilities are located at **10971 E. AIRPORT SERVICE RD. SWANTON, OH 43558 USA** and the other addresses contained in the Operating Specifications issued for each maintenance base, attests that this organization, having complied with the requirements established in the Brazilian Aeronautical Homologation Regulations (RBHA) and Brazilian Civil Aviation Regulations (RBAC), related to the establishment of an Aeronautical Maintenance Organization, is authorized to perform: *(This Certificate is issued to NATIONAL SERVICES FLIGHT INC. , whose business address is 10971 E. AIRPORT SERVICE RD. SWANTON, OH 43558 USA and the additional addresses in Operations Specifications issued for each maintenance base, upon finding that this organization complies with the requirements established in the Brazilian Aeronautical Certification Regulations (RBHA) and Brazilian Civil Aviation Regulations (RBAC) relating to the establishment of an Aeronautical Maintenance Organization, is authorized to perform:)*

- **Category Cell Class 3** - Maintenance, preventive maintenance and alteration of aircraft manufactured in metal structure, with maximum approved take-off weight up to 12500 lbf (5670 kgf) in the case of aircraft or 6018 lbf (2730 kgf) in the case of helicopters, according to the Operational Specifications of the Maintenance Organization. *(Airframe rating Class 3 – maintenance, preventive maintenance and alteration of metal structure's aircraft, with maximum takeoff weight of 12500 lbf (5670 kgf) or less in case of aircraft, or 6018 lbf (2730 kgf) in case of rotorcraft, according to the Maintenance Organization Operations Specifications)*
- **Category Cell Class 4** - Maintenance, preventive maintenance and alteration of aircraft manufactured from metal structure with maximum approved take-off weight above 12500 lbf (5670 kgf) in the case of aircraft or 6018 lbf (2730 kgf) in the case of helicopters, according to the Operational Specifications of the Maintenance Organization. *(Airframe rating Class 4 – maintenance, preventive maintenance and alteration of metal structure's aircraft with maximum takeoff weight of more than 12500 lbf (5670 kgf) in case of aircraft, or 6018 lbf (2730 kgf) in case of rotorcraft, according to the Organization Operations Specifications)*
- **Class 1 Engine Category** - Maintenance, preventive maintenance and alteration of conventional engines with up to 400 hp (298 kW), according to the Operating Specifications of the Maintenance Organization. *(Powerplant rating Class 1 – maintenance, preventive maintenance and alteration of reciprocating engines of 400 hp (298 kW) or less, according to the Maintenance Organization Operations Specifications)*
- **Category Motor Class 3** - Maintenance, preventive maintenance and alteration of turbine engines, according to the Operational Specifications of the Maintenance Organization. *(Powerplant rating Class 3 – maintenance, preventive maintenance and alteration of turbine engines, according to the Maintenance Organization Operations Specifications)*
- **Category Specialized Services Single Class** - Specific activities of maintenance execution, according to Operational Specifications of the Maintenance Organization. *(Specialized service rating Class*

Unique – specific activities of maintenance execution, according to the Maintenance Organization Operations Specifications)

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For this Certificate, whose data are supplemented by the Operating Specifications of the Maintenance Organization and its Capacity List, as applicable, any major change in location, addition, change or decrease of capacity, or change of corporate name or name, shall be communicated to the National Civil Aviation Agency - ANAC according to the deadlines set forth in RBAC 145. *(For this Certificate, whose complementary data are in the Maintenance Organization Operations Specifications and its attachment Capability List, if applicable, any major change in the location, add, amend or reduction of capability, or change of corporate name, shall be reported to the Brazilian Civil Aviation Authority – ANAC according to the terms defined in RBAC 145).*

DURATION: This Certificate is **valid until October 31, 2023** unless it is returned by its holder, or is suspended or revoked by ANAC. *(Expiration date: This Certificate shall continue in effect until October 31<sup>st</sup>, 2023, unless it is returned by the holder, canceled or suspended by ANAC)*



Document signed electronically by **Rodrigo Viana Torres**, Technical Manager of Certification of Maintenance **Organizations**, on 05/01/2022, at 11:05, according to the official time of Brasilia, based on art. 4, [decree no. 10,543, of November 13, 2020](#).



The authenticity of this document can be checked on [the https://sei.anac.gov.br/sei/autenticidade](https://sei.anac.gov.br/sei/autenticidade) website, informing the 6659919 **code** and crc code **EA8E91BD**.



(BRAZILIAN CIVIL AVIATION AUTHORITY)

**ESPECIFICAÇÕES OPERATIVAS DA ORGANIZAÇÃO DE MANUTENÇÃO**  
(MAINTENANCE ORGANIZATION OPERATIONS SPECIFICATIONS)

COM Nº 1107-41/ANAC (MAINTENANCE ORGANIZATION CERTIFICATE No. 1107-41/ANAC)

**NATIONAL FLIGHT SERVICES, INC.**  
10971 E. Airport Service Rd.  
Swanton, OH. USA 43558

**AERONAVES (AIRCRAFT)**

- PIPER AIRCRAFT CORP. – Models PA-31, PA31-300, PA-31-325, PA-31-350, PA-31P, PA-31T, PA-31T2, PA-42, PA-42-720, PA-42-1000, PA-46-350P, PA-46-500TP, PA-46-600TP, PA-46R-350T.
- TEXTRON AVIATION (CESSNA) – Models 414, 414A, 421, 421B, 421C, 441, 500, 501, 525A, 550, 550II, S550, 551, 560, 560 Encore, 560 Encore+, 560 Ultra, 560XL, 560XLS, 560XLS+, 650III, 650VI, 650VII, 750.
- M7 AEROSPACE LP – Models SA227-AC, SA227-AT, SA227-CC, SA227-DC.
- TWIN COMMANDER AIRCRAFT CO. - Models 500, 500-B, 500-S, 500-U, 520, 560, 560-E 560-F, 680-E, 680-F, 680-FL, 680-V, 680-W, 681, 690, 690A, 690B, 690C, 690D, 695, 695A.
- LEARJET CORP. – Models 24A, 24D-A.
- TEXTRON AVIATION (BEECHCRAFT) – Models 95, 95-55, 95-A55, 95-B55, 95-C55, B90, C90, C90A, C90GT, C90GTi, E90, F90, 100, A100, A100A, B100, 200, B200, B200CGT, B200GT, B300, B300C.

**MOTORES (ENGINES)**

- PRATT & WHITNEY CANADA – Models PT6A-11, PT6A-11AG, PT6A-20, PT6A-21, PT6A-27, PT6A-34, PT6A-34AG, PT6A-40, PT6A-41, PT6A-42, PT6A-42A, PT6A-60A, PT6A-60AG, PT6A-114, PT6A-114A, PT6A-135, PT6A-135A (Limited to maintenance, preventive maintenance & alteration, excluding overhaul, in accordance with current Pratt & Whitney Canada maintenance instructions).
- PRATT & WHITNEY CORP. – Models JT15D-4, JT15D-4B, JT15D-5, JT15D-5A, JT15D-5D, JT15D-5R (Limited to maintenance, preventive maintenance & alteration, not involving disassembly of the primary rotating components, in accordance with current Pratt & Whitney maintenance instructions).
- GENERAL ELECTRIC AIRCRAFT ENGINES – Models CJ610, CJ610-1, CJ610-4, CJ610-5, CJ610-6, CJ610-8A (Limited to maintenance, preventive maintenance & alteration, not involving disassembly of the primary rotating components, in accordance with current General Electric maintenance instructions).
- HONEYWELL INT'L, INC. – Models TFE731-2, TFE731-3, TFE731-3A, TFE731-3AR, TFE731-3B, TFE731-3BR, TFE731-3C, TFE731-3CR, TFE731-4, TFE731-4R, TFE731-5, TFE731-5A, TFE731-AR, TFE731-5B, TFE731-5BR, TFE731-5R, TFE731-20, TFE731-20AR, TFE731-20BR, TFE731-20R, TFE731-40, TFE731-40AR, TFE731-40R, TFE731-50R, TFE731-60 (Limited to maintenance, preventive maintenance & alteration, not involving disassembly of the primary rotating components, in accordance with current Honeywell Int'l maintenance instructions).
- HONEYWELL INT'L, INC. – Models TPE331-1, TPE331-2, TPE331-3U, TPE331-3UW, TPE331-5, TPE331-6, TPE331-8, TPE331-10, TPE331-10AV, TPE331-10R, TPE331-10T, TPE331-10U, TPE331-10UA, TPE331-10UF, TPE331-10UR, TPE331-10UG, TPE331-10UGR, TPE331-11U, TPE331-12JR, TPE331-12UA, TPE331-12UAR, TPE331-12UHR (Limited to maintenance, preventive maintenance & alteration, in accordance with current Honeywell Int'l maintenance instructions).
- HONEYWELL INT'L INC. – Models TPE331-14A, TPE331-14B, TPE331-14GR, TPE331-14HR, TPE331-15AW (Limited to maintenance, preventive maintenance & alteration, excluding overhaul, in accordance with current Honeywell Int'l maintenance instructions).
- WILLIAMS INT'L – Models FJ44-1A, FJ44-1AP, FJ44-2A, FJ44-2C, FJ44-3A, FJ44-3A-24 (Limited to maintenance, preventive maintenance & alteration, not involving disassembly of the primary rotating components, in accordance with current Williams Int'l maintenance instructions).
- TELEDYNE CONTINENTAL MOTORS – Models A-65-1, A-65-14, A-65-3, A-65-6, A-65-6J, A-65-7, A-65-8, A-65-8F, A-65-8FJ, A-65-8J, A-65-9, A-65-9F, A-65-9FJ, A-65-9I, A-75-8, A-75A9, C-125-1, C-125-2, C145-2, C145-2H, C75-12, C75-12F, C75-8, C85-12, C85-12F, C85-12FJ, C85-12J, C85-14F, C85-8, C85-8F, C85-8FJ, C85-8J, C90-12F, C90-12FJ, C90-14F, C90-16F, C90-8F, E185-1, E185-1I, E185-3, C185-8, E185-9, E225-8, GO-300-A, GO-300-C, GTSIO-520-C, GTSIO-520-D, GTSIO-520-H, GTSIO-520-L, GTSIO-520-M, GTSIO-520-N, IO-240-B, IO-346-A, IO-360-A, IO-360-C, IO-360-CB, IO-360-D, IO-360-DB, IO-360-ES, IO-360-G, IO-360-GB, IO-360-K, IO-360-KB, IO-470-C, IO-470-D, IO-470-E, IO-470-F, IO-470-H, IO-470-J, IO-470-K, IO-470-L, IO-470-N, IO-470-R, IO-470-S, IO-470-U, IO-470-V, IO-470-VO, IO-520-A, IO-520-B, IO-520-BA, IO-520-BB, IO-520-C, IO-520-CB, IO-520-D, IO-520-F, IO-520-J, IO-520-K, IO-520-L, IO-520-M, IO-520-MB, IO-520-N, IO-550-A, IO-550-B, IO-550-C, IO-550-D, IO-550-E, IO-550-F, IO-550-G, IO-550-L, IO-550-N, IO-550-P, IO-550-R, LTSIO-360-E, LTSIO-360-EB, LTSIO-360-KB, LTSIO-360-RB, O-200-A, O-300-A, O-300-B, O-300-C, O-300-D, O-470-11, O-470-11B, O-470-A, O-470-B, O-470-G, O-470-G-CI, O-470-J, O-470-K, O-470-L, O-470-M, O-470-R, O-470-S, O-470-U, TSIO-360-E, TSIO-360-EB, TSIO-360-F, TSIO-360-FB, TSIO-36-KB, TSIO-360-MB, TSIO-360-RB, TSIO-470-B, TSIO-470-D, TSIO-520-AF, TSIO-520-B, TSIO-520-BB, TSIO-520-C, TSIO-520-D, TSIO-520-E, TSIO-520-EB, TSIO-520-G, TSIO-520-H, TSIO-520-J, TSIO-520-JB, TSIO-520-K, TSIO-520-KB, TSIO-520-L, TSIO-520-LB, TSIO-520-M, TSIO-520-N, TSIO-520-NB, TSIO-520-P, TSIO-520-R, TSIO-520-T, TSIO-520-U, TSIO-520-UB, TSIO-520-VB, TSIO-520-WB, TSIO-550-C, TSIO-550-G (Limited to the following functions, not involving disassembly of the crankcase or removal of the accessory or nose case; inspection, repair, engine component replacement, cylinder removal and replacement, in accordance with current Teledyne Continental maintenance instructions).
- TEXTRON LYCOMING - AVCO Corporation – Models AEIO-320-E1B, AEIO-320-E2B, AEIO-360-A1B6, AEIO-360-B2F, GO-435-C2, GO-435-C2B, GO-435-C2B1, GO-435-C2B2, GO-435-D1, GO-480-B, GO-480-B1A6, GO-480-B1C, GO-480-C1B6, GO-480-C2C6, GO-480-C2D6, GO-480-G1A6, GO-480-G1B6, GO-480-O1D6, GO-480-G2D6, GSO-480-B1A6, HIO-360-A1A, HIO-360-B1A, HIO-360-B1B, HIO-360-C1A, HIO-360-C1B, HIO-360-D1A, HIO-360-F1AD, HO-360-B1A, HO-360-B1B, HO-360-C1A, IGO-540-B1A, IGO-540-B1C, IGSO-480-A1A6, IGSO-480-A1B6, IGSO-480-A1E6, IGSO-540-A1A, IGSO-540-A1D, IGSO-540-B1A, IGSO-540-B1C, IO-320-B1A, IO-320-E1A, IO-320-E1B, IO-360-A1B6, IO-360-A3B6D, IO-360-B1G6, IO-360-C1C, IO-360-C1C6, IO-360-C1G6, IO-360-L2A, IO-360-M1A, IO-540-AB1A5, IO-540-AC1A5, IO-540-C4B5, IO-540-C4D5D, IO-540-K1A5, IO-540-K1F5D, IO-540-K1G5, IO-540-K1G5D, IO-540-K1J5, IO-540-K1J5D, IO-540-V4A5, IO-540-W1A5, IO-540-W1A5D, LIO-320-B1A, LIO-360-C1E6, LTIO-540-J2BD, O-235-C2A, O-235-N2A, O-235-N2C, O-290-D, O-290-D2, O-320-B2B, O-320-B2C, O-320-B2D, O-320-D2A, O-360-A1AD, O-360-A1D, O-360-A1P, O-360-A4M, O-360-C1F, O-360-C1G, O-360-C4F, O-360-J2A, O-540-A1D5, O-540-B1D5, O-540-B2B5, O-540-B4B5, O-540-F1B5, O-540-H1B5D, O-540-H2A5, O-540-H2B5D, O-540-J1A5D, O-540-J3A5, TIGO-541-E1A, TIO-540-AA1AD, TIO-540-AB1AD, TIO-540-AE2A, TIO-540-AF1A, TIO-540-AJ1A, TIO-540-J2BD,

TIO-541-EIA4, TIO-541-EIB4, TIO-541-EIC4, VO-540-BIB, VO-540-B1B3 (Limited to the following functions, not involving disassembly of the crankcase or removal of the accessory or nose case; inspection, repair, engine component replacement, cylinder removal and replacement, in accordance with current Lycoming maintenance instructions).

**SERVICOS ESPECIALIZADOS (SPECIALIZED SERVICE)**

- Ensaaios Não Destrutivos: *(Non Destructive Testing:)*
  - Inspeções por Líquido Penetrante de acordo com os procedimentos específicos constantes nas instruções de aeronavegabilidade continuada dos componentes ensaiados e de acordo com a Norma ASTM-E-1417 conforme revisada. *(Liquid Penetrant testing according to specific procedures obtained from continuous airworthiness instructions of components and tested according to ASTM E-1417 standard (as revised).*
  - Inspeções por Partículas Magnéticas de acordo com os procedimentos específicos constantes nas instruções de aeronavegabilidade continuada dos componentes ensaiados e de acordo com a Norma ASTM-E-1444 conforme revisada. *(Magnetic Particle testing according to specific procedures obtained from continuous airworthiness instructions of components and tested according to ASTM-E-1444 standard (as revised).*
  - O pessoal requerido para a execução dos ensaios não destrutivos deve atender aos requisitos de qualificação e certificação contidos na NAS 410, ASNT-TC-1A and/or ATA105 conforme revisada. *(Non-destructive testing personnel must meet the qualification and certification requirements contained in NAS 410, ASNT-TC-1A and/or ATA105 (as revised)).*
- Soldagem (Welding) - Tungsten Inert GAS – TIG – De acordo com os procedimentos específicos constantes nas instruções de aeronavegabilidade continuada dos componentes trabalhados e de acordo com a Norma AWS D17.1: 2001 conforme revisada. *(Welding according to specific procedures obtained from continuous airworthiness instructions of components and according to AWS D17.1: 2001 standard (as revised).*

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**ROBSON RIBEIRO DA SILVA**  
Gerente Técnico de Aeronavegabilidade Substituto (GTAR/RJ)  
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Documento assinado eletronicamente por Robson Ribeiro da Silva, Especialista em Regulação de Aviação Civil, em 02/10/2019, às 09:44, conforme horário oficial de Brasília, com fundamento no art. 6º, § 1º, do [Decreto nº 8.539, de 8 de outubro de 2015](#).



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