



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.A.385

for

Vulcanair P.68

Type Certificate Holder:

Vulcanair S.p.A.

Via Giovanni Pascoli, 7
80026 - Casoria (Napoli)
ITALY

For models: AP68TP-300 "Spartacus"
AP68TP-600 "Viator"
P.68 "Observer 2"
P.68 "Observer"
P.68 "Victor"
P.68B "Victor"
P.68C
P.68C-TC
P.68R "Victor"
P.68TC "Observer"



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Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **AP68TP-300 "Spartacus"**

Engine Manufacturer¹ **Allison** Engine Type Designation¹ **250-B17C**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Overflight dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C13388 | Hartzell Propeller Inc. | HC-B3TF-7A/T10173BF-21R | none | 2,600 | 71.9 | 80.0 | - |
| C2338 | Hartzell Propeller Inc. | HC-B3TF-7A/T10173F-21R | none | 2,600 | 71.9 | 80.0 | - |
| C9750 | Hartzell Propeller Inc. | HC-B3TF-7A/T10173FN-21R | none | 2,600 | 71.9 | 80.0 | - |

¹ See Note 1.

Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **AP68TP-600 "Viator"**

Engine Manufacturer¹ **Allison** Engine Type Designation¹ **250-B17C**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Take-off dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C13389 | Hartzell Propeller Inc. | HC-B3TF-7A/T10173BF-21R | none | 3,000 | 79.5 | 88.0 | - |
| C5060 | Hartzell Propeller Inc. | HC-B3TF-7A/T10173F-21R | none | 3,000 | 79.5 | 88.0 | - |
| C9749 | Hartzell Propeller Inc. | HC-B3TF-7A/T10173FN-21R | none | 3,000 | 79.5 | 88.0 | - |

¹ See Note 1.

Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68 "Observer 2"**

Engine Manufacturer¹ **Lycoming** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Take-off dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C5474 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 2,084 | 72.7 | 88.0 | - |

¹ See Note 1.

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| Type Certificate Holder ¹ | Vulcanair S.p.A. | Aircraft Type Designation ¹ | P.68 "Observer" |
| Engine Manufacturer ¹ | Lycoming | Engine Type Designation ¹ | IO-360-A1B6 |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter ¹ 6 |

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Overflight dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C3859 | Hartzell Propeller Inc. | HC-C2YK-2C(J)/FC7666A(B)-4 | none | 1,960 | 73.7 | 80.0 | - |

¹ See Note 1.



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|---------------------------|--------------------------------|---------------------------|----------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Take-off dB(A) | | See Note |
|-----------------|--------------------------------|------------------------------|---|----------------------------|----------------|-------|----------|
| | | | | | Level | Limit | |
| C9744 | Hartzell Propeller Inc. | HC-C2YK-2C()/C7666A-4 | none | 1,960 | - | | 1 |
| C9742 | Hartzell Propeller Inc. | HC-C2YK-2C()/C7666A-4 | none | 1,860 | - | | 1 |



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|---------------------------|--------------------------------|---------------------------|---------------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter 10 (10.4a) |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Take-off dB(A) | | See Note |
|-----------------|--------------------------------|--------------------------------|---|----------------------------|----------------|-------------|----------|
| | | | | | Level | Limit | |
| C3424 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4 | 88.0 | 1 |



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|---------------------------|--------------------------------|---------------------------|----------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter 6 |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Overflight dB(A) | | See Note |
|-----------------|--------------------------------|--------------------------------|---|----------------------------|------------------|-------------|----------|
| | | | | | Level | Limit | |
| C5670 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,860 | 73.2 | 80.0 | 1 |



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|---------------------------|--------------------------------|---------------------------|----------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B6 |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Take-off dB(A) | | See Note |
|-----------------|--------------------------------|--------------------------------|---|----------------------------|----------------|-------|----------|
| | | | | | Level | Limit | |
| C9745 | Hartzell Propeller Inc. | HC-C2YK-2C()/C7666A-4 | none | 1,960 | - | | 1 |
| C9746 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | - | | 1 |
| C9743 | Hartzell Propeller Inc. | HC-C2YK-2C()/C7666A-4 | none | 1,860 | - | | 1 |

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|---------------------------|--------------------------------|---------------------------|----------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68 "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B6 |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter 6 |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Overflight dB(A) | | See Note |
|-----------------|--------------------------------|--------------------------------|---|----------------------------|------------------|-------------|----------|
| | | | | | Level | Limit | |
| C14347 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | Service Bulletins No. 21 & No. 160 (Increase in MTOM) | 1,990 | 73.6 | 80.0 | - |
| C5671 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,860 | 73.2 | 80.0 | 1 |



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|--------------------------------------|--------------------------------|--|--|
| Type Certificate Holder ¹ | Vulcanair S.p.A. | Aircraft Type Designation ¹ | P.68B "Victor" |
| Engine Manufacturer ¹ | Lycoming | Engine Type Designation ¹ | IO-360-A1B |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter ¹ 10 (10.4a) |

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Take-off dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C3426 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,990 | 76.4 | 88.0 | - |
| C3427 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4 | 88.0 | 1 |

¹ See Note 1.

Type Certificate Holder **Vulcanair S.p.A.** Aircraft Type Designation **P.68B "Victor"**

Engine Manufacturer **Lycoming** Engine Type Designation **IO-360-A1B**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Take-off dB(A) | | See Note |
|-----------------|--------------------------------|--------------------------------|---|----------------------------|----------------|-------|----------|
| | | | | | Level | Limit | |
| C9748 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | - | | 1 |

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|---------------------------|--------------------------------|---------------------------|-----------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68B "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B6 |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter 6 |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Overflight dB(A) | | See Note |
|-----------------|--------------------------------|--------------------------------|---|----------------------------|------------------|-------------|----------|
| | | | | | Level | Limit | |
| C3876 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,990 | 73.6 | 80.0 | 1 |
| C3877 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 74.8 | 80.0 | 1 |



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|---------------------------|--------------------------------|---------------------------|---------------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68B "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B6 |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter 10 (10.4a) |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Take-off dB(A) | | See Note |
|-----------------|--------------------------------|--------------------------------|---|----------------------------|----------------|-------------|----------|
| | | | | | Level | Limit | |
| C3428 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4 | 88.0 | 1 |

Type Certificate Holder **Vulcanair S.p.A.** Aircraft Type Designation **P.68B "Victor"**

Engine Manufacturer **Lycoming** Engine Type Designation **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Take-off dB(A) | | See Note |
|-----------------|--------------------------------|--------------------------------|---|----------------------------|----------------|-------|----------|
| | | | | | Level | Limit | |
| C9747 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | - | | 1 |

Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C**

Engine Manufacturer¹ **Lycoming** Engine Type Designation¹ **IO-360-A1B6**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Take-off dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C5726 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 2,084 | 77.6 | 88.0 | - |
| C3429 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,990 | 76.4 | 88.0 | - |

¹ See Note 1.

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|--------------------------------------|--------------------------------|--|-------------------------------|
| Type Certificate Holder ¹ | Vulcanair S.p.A. | Aircraft Type Designation ¹ | P.68C |
| Engine Manufacturer ¹ | Lycoming | Engine Type Designation ¹ | IO-360-A1B6 |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter ¹ 6 |

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Overflight dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C3880 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,990 | 73.7 | 80.0 | - |

¹ See Note 1.



Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C-TC**

Engine Manufacturer¹ **Lycoming** Engine Type Designation¹ **TIO-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Take-off dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C10438 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | Modification P68/073 (Increase of MTOM) | 2,084 | 83.2 | 88.0 | - |
| C3431 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | none | 1,990 | 80.4 | 88.0 | - |

¹ See Note 1.

Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C-TC**

Engine Manufacturer¹ **Lycoming** Engine Type Designation¹ **TIO-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Overflight dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C3430 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | none | 1,990 | 74.6 | 80.0 | - |

¹ See Note 1.

Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C-TC**

Engine Manufacturer¹ **Lycoming** Engine Type Designation¹ **TO-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **6**

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Overflight dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C3432 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | none | 1,990 | 74.6 | 80.0 | - |

¹ See Note 1.

Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68C-TC**

Engine Manufacturer¹ **Lycoming** Engine Type Designation¹ **TO-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Take-off dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C3433 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | none | 1,990 | 80.4 | 88.0 | - |

¹ See Note 1.

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|---------------------------|--------------------------------|---------------------------|---------------------------|
| Type Certificate Holder | Vulcanair S.p.A. | Aircraft Type Designation | P.68R "Victor" |
| Engine Manufacturer | Lycoming | Engine Type Designation | IO-360-A1B |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter 10 (10.4a) |

| EASA Record No. | Propeller Manufacturer | Propeller Type Designation | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass (kg) | Take-off dB(A) | | See Note |
|-----------------|--------------------------------|--------------------------------|---|----------------------------|----------------|-------------|----------|
| | | | | | Level | Limit | |
| C8955 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4 | 88.0 | 1 |

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|--------------------------------------|--------------------------------|--|--|
| Type Certificate Holder ¹ | Vulcanair S.p.A. | Aircraft Type Designation ¹ | P.68R "Victor" |
| Engine Manufacturer ¹ | Lycoming | Engine Type Designation ¹ | IO-360-A1B6 |
| Noise Certification Basis | ICAO Annex 16, Volume I | Edition / Amendment | Chapter ¹ 10 (10.4a) |

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Take-off dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C9911 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | Modification P68/151 (Increase of MTOM) | 2,063 | 78.8 | 88.0 | - |
| C9758 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-4 | none | 1,960 | 76.4 | 88.0 | 1 |

¹ See Note 1.

Type Certificate Holder¹ **Vulcanair S.p.A.** Aircraft Type Designation¹ **P.68TC "Observer"**

Engine Manufacturer¹ **Lycoming** Engine Type Designation¹ **TIO-360-C1A6D**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter¹ **10 (10.4a)**

| EASA Record No. | Propeller Manufacturer ¹ | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels | Maximum Take-off mass ¹ (kg) | Take-off dB(A) | | See Note |
|-----------------|-------------------------------------|---|---|---|--------------------|-------------|----------|
| | | | | | Level ¹ | Limit | |
| C10391 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | none | 2,084 | 83.2 | 88.0 | - |
| C3434 | Hartzell Propeller Inc. | HC-C2YK-2C()F/FC7666A-0 | none | 1,960 | 83.2 | 88.0 | - |

¹ See Note 1.

TCDSN EASA.A.385 Notes

1. Items so marked shall be included on EASA Form 45.
2. This aircraft type conforms with the provisions of Article 6.1 of Regulation 2018/1139 without the need to comply with the Standards of ICAO Annex 16, Volume I, by virtue of the date of type certification. However individual examples of this type which were first issued with a certificate of airworthiness on or after 1 January 1980 are required to demonstrate compliance with the Standards of ICAO Annex 16, Volume I, Chapter 6.



Change Record

| Issue | Date | Changes |
|--------------|-------------------|--|
| Issue 1 | 05 November 2009 | Initial Issue |
| Issue 2 | 12 July 2010 | Added records C2338, C9750, C5060, C9749 |
| Issue 3 | 07 June 2011 | Record C10391 added. |
| Issue 4 | 21 June 2011 | Changed record C10391, added record C10438 |
| Issue 5 | 06 August 2013 | Revised address of TC holder |
| Issue 6 | 20 October 2014 | Revised |
| Issue 7 | 25 July 2017 | Records C2338 and C9750 revised; records C13388 and C13389 added |
| Issue 8 | 15 September 2020 | Added record C14347 |

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