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Approved By: Original Signed

Benjamin White FAA - DER Structures

**List of Revisions**

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| --- | --- | --- | --- |
| Revision Level | Revision Description | Approved by | Release Date |
| IR | Initial Release | BJW | 06/04/2009 |
| A | Included Appendix related to the addition of the 182T /T182T models. No other changes. |  | 10/19/2009 |
| B | Included Addendum 1 related to the type design update to match the current configuration. | CTH | 09/28/2022 |
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T206/T206H / 182T/T182T

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1. **INTRODUCTION** J

The purpose of this substantiation report is to provide visibility of compliance to 14 CFR Part 23 strength and fatigue/fail safe requirements. The applicable requirements are as listed below:

|  |  |
| --- | --- |
| 14 CFR Part 23 23.301  23.303  23.305(a)(b) | Loads As amended by Amendments 23-1 through 23-42  Factor of Safety  Strength and Deformation As amended by Amendments 23-1 through 23-45 |
| 23.307(a)(b)  23.561(a) | Proof of Structure  Emergency Landing Loads As amended by Amendments 23-1 through 23-34 |
| 23.601  23.603(a)(b) | Testing of critical parts  Material and workmanship As amended by Amendments 23-1 through 23-23 |
| 23.605(a) | Fabrication Methods As amended by Amendments 23-1 through 23-23 |
| 23.607 | Self Locking Nuts As amended by Amendments 23-1 through 23- 1 7 |
| 23.609  23.611 | 1 /  Protection of Structure  Accessibility Provisions As amended by Amendments 23-1 through 23-7 |
| 23.613 | Material Strength Properties and Design Values As amended by Amendments 23-1 through 23-23 |
| 23.627 | Fatigue Strength |