External Small Airplane All Categories Report



Product Type	Issue ID#	Category	Subject	Description
Small Airplane	A-0101	Airframe Loads and Flutter	Vinyl Covering Shrink Wraps on Exterior of Part 23 Airplanes, Gliders, and Airships	Applicants should be aware that the FAA has issued a memo stating there are safety issues with the installation of vinyl covering shrink wraps on the exterior of airplanes, gliders, and airships that are not present with other exteriors such as paint and deicing boots. These issues include hazards that are major to catastrophic os the installation by FAA Field Approval is not acceptable. Only Federal Avaision Administration (FAA) Type Certificate (ATC), and exceptable for this installation. This memorandum is not applicable to vinyl decals or togos that are placed on limited areas of the tuselage or empenange. The following are safety concerns with the installation of vinyl shrink wrap coverings that must be evaluated by the applicant for any TCI ATCISTC application: 1. Without proper engineering evaluation and/or tests, vinyl shrink wrap cannot be placed on any control surface or control surface bab: a. without consideration of the effect on the flutter characteristics (whether the surface is mass balanced or not) and by where that installation would change the existing clearance between adjacent surfaces with and without loading. 2. Scoring the skin of aircraft when cutting the vinyl sheets to fit, which can start cracks, particularly in pressurized aircraft. 3. Blocking of fuel vents, static ports, hinges, drain holes etc., making them inorperative or changing the airflow over static ports. 4. Use of an open flame from a blowforch to apply the material. This is a concern around fuel tanks and vent entenss, and especially on composite parts, which have cure temperatures well below the temperature of a blowtorch. 5. Covering required exterior aircraft markings and causing radio/havigation interference. 8. Trinting adhesion on the surface or notating parts and jamming control surfaces or compromising enquires. 7. Static build-up causing electrical discharges in or around fuel tanks and vent of extensive parts and part of the vent of the parts of the surfaces. 10. Flammability of the material. This is a concern
Small Airplane	A-0201	Structures	Additive Manufacturing Design & Construction (Materials, Fabrication Methods)	Additive Manufacturing (AM) is a relatively new manufacturing process and describes the process of joining materials to make objects from three dimensional (3D) model data using a sequential layering process. This manufacturing technique is sometimes referred to as 3D printing. AM is a generic term that spans a diverse range of techniques using a wide range of machines and technologies, such as Powder Bed Fusion (PBF), Directed Energy Deposition (DED), and Material Extrusion using energy sources such as lasers, electron beams, or thermal energy. Each of these AM process may have unique considerations.
				If the use of AM is proposed, then the applicant (through the appropriate validation or certification office) should provide the information defined in the AM Applicant Specific Guidance Memorandum to AIR-621, Materials and Structural Properties Section, for awareness and to support certification projects. An Issue Paper may be required based on the applicant's response to the memorandum. Applicants can request the memorandum from their certification or validation branch.
Small Airplane	A-0202	Structures	Fatigue Management Programs	If the applicant is proposing to incorporate a Fatigue Management Program (FMP) into an existing product, then the FAA may need to be consulted to determine the certification basis and the accepted means of compliance (MOC). FMPs cannot be mandated on existing products in the U.S. except through an Ainvorthiness Directive. FAA Advisory Circular AC 91-82 is considered an accepted MOC. There are varying application of fatigue requirements to derivative model airplanes when the original model did not have fatigue requirements at initial certification. The SASB may be involved with these projects. In addition, the FAA does not typically allow use of an inspection program in lieu of the safe life design limits aiready established. Reference AC 21.101-1B, Appendix Table A-2, Example 23, "Conversion from a safe-life design to a damage tolerance-based design".
Small Airplane	A-0203	Structures	Load Relief/Alleviation Systems	If the applicant proposes to use load relief or load alleviation systems for aircraft structure, then they may require a special condition at amendment 23-63 or earlier to address the effect of such systems on aircraft structure. In addition, current regulations do not take into account the effects of system failures on aircraft loads. At amendment 23-64 and after, applicants should coordinate with the SASB to incorporate the requirements of the special conditions into their certification planning as FAA accepted means of compliance (MOC) in lieu of a special condition.
Small Airplane	A-0204	Structures	Composite Floats	If an applicant is seeking installation approval for composite floats that have not been approved to TSO C-27a, then they may need to obtain an FAA accepted means of compliance to address fatigue and durability requirements unique to composites as detailed in AC 23-19A Sections 201 through 207. The guidance in AC-23-19A closely approximates requirements per §23.573 for composite structure. The use of composites also requires compliance methods that may require additional work to satisfy §23.603, §23.609 and §23.609 a
Small Airplane	A-0205	Structures	Life Limits - Damage Tolerance Inspections	If the applicant is proposing to eliminate or extend existing life limits, they must contact the SASB. Small airplanes may have structural life limits on certain components imposed by the airplane's certification basis. Type design holders or STC applicants may propose eliminating the existing life limits and replacing them with damage tolerance based inspection programs, especially as the fleet approaches the life limits. The FAA believes that it is impractical to develop an adequate inspection program, incorporate damage tolerant design designed and tested for the life limit approach. There exists an unacceptable risk of fatigue cracking beyond the original life limit and an inspection program has limited capability of detecting what may be a relatively large number of cracks as the fleet ages past the original life limit. The FAA position is that an inspection program cannot eliminate a life limit but it can be used to extend an existing life limit. The FAA may approve an initial life extension of the original life limit with an FAA accepted inspection program.
Small Airplane	A-0206	Structures	Material Design Values	If the applicant proposes to use material that does not meet 14 CFR 23.613 at amendment 23-63 or prior, then they may require an Equivalent Level of Safety (ELOS) finding. The use of S-Basis design values (material allowables) do not comply with probability requirements of 14 CFR 23.613(a), (b), and (e), amendment 23-45. This requires that material strength properties be based on a sufficient number of tests to establish a statistical basis for the design values. For single load path structure, 14 CFR 23.613 further requires the design use must be established with a 90 % probability and 95 % confidence ("B" basis) value. However, S-Basis design values have an unknown statistical assurance. Currently, there is no alternate allowed for structure to use statistically determined minimum design values other than"\(^2\) or "B" basis. In addition, there is no option to utilize a procurement specification value as a design value with receiving inspection test sampling processes. At amendment 23-64 and after, applicants should incorporate FAA accepted means of compliance (MOC) into their certification planning in lieu of an ELOS finding.
Small Airplane	A-0207	Structures	Life Limits - Safe Life Airplanes and Significant Change	Significant Change under 14 CFR 21.101 requires the applicant comply with all applicable rules for the product being changed that are effective on their date of application for the proposed change UNLESS it is determined that compliance to the later requirement is (1) Not in an area affected by the change, (2) Does not significantly contribute the Level of Safety or (3) Is impractical. Damage Tolerance is part of the latest certification basis for structural changes. However, airplanes that have been originally certificated to Safe Life or Fail Safe requirements need to be reviewed to determine if they can be certificated to Damage Tolerance requirements at the latest rule.
Small Airplane	A-0301	Avionics	Non-TSO Electronic Flight Instrument Systems and Avionics	If the applicant is seeking to install non-TSO avionics, then they may need to verify the level of FAA involvement in their project. Many avionics manufacturers have developed lower cost integrated display systems specifically for the Experimental and Amateur-built airplane markets. Although these systems have many or all of the same functions, they generally do not follow the design assurance processes specified in the TSOs. The TSOs only specify a minimum performance, and they often outline the design assurance requirements as well as environmental standards in addition to general operating requirements. TSO admixed the article manufacturer has provided a statement of compliance with the TSO requirements and the article is produced under an FAA approved quality system. For non-TSO equipment, the installer bears responsibility for supplier control of the type design and the production of the article. The FAA has issued several project-by-project policies that support the integration of such EFIS into part 23 airplanes. The FAA will determine their involvement that has not been certificated before.
Small Airplane	A-0302	Avionics	Relief from 14 CFR 23.1311(a)(5)	If the applicant is seeking relief from 14 CFR part 23.1311(a)(5) at amendment 23-49 for installation approval of electronic displays in part 23 airplanes limited to VFR, then they may require an Equivlanet Level of Safety (ELOS) finding. The Small Airplanes Standards Branch have developed policy designed to reduce the burden of processing multiple ELOS requests and communicates the intent of 23.1311(a)(5).
Small Airplane	A-0303	Avionics	Speech Recognition or Voice Activated Technology	If the applicant proposes to install speech recognition or voice activated technology for avionics data entry, then they may need to obtain an FAA accepted means of compliance (MOC) to 14 CFR 23.1301 and 23.1309 at amendment 23-63 and prior. At amendment 23-64 and after, applicants should incorporate FAA accepted means of compliance (MOC) inot their certification planning.
Small Airplane	A-0305	Avionics	Vision Systems - Night Vision Imaging Systems	If the applicant is seeking to install night vision compatible lighting systems into part 23 airplanes, then they must obtain an FAA accepted means of compliance (MOC) at all amendment levels. The FAA accepted NVIS MOC is currently available as a Project Specific Policy Memo that may be obtained from the SASB. This MOC defines an acceptable MOC for aided flight operations and aided takeoff and landing operations. This MOC does not address operational authorization. The project specific policy memo does not currently allow for agricultural application operations and therefore an issue paper will be required. Similarly, aided seaplanes operations are also not covered and will require an issue paper.
Small Airplane	A-0307	Avionics	Airspeed Indicator Markings	If the applicant is installing digital avionics (glass cockpit), then they may require an Equivalent Level Of Safety (ELOS) finding when complying with 14 CFR 23.1545 Airspeed Indicator at amendment 23-63 and prior. At amendment 23-64 and after, applicants should incorporate FAA accepted means of compliance (MOC) into their certification planning in lieu of an ELOS finding.
Small Airplane	A-0308	Avionics	Radio Altimeters	Notify Policy and Innovation Division (AIR-600) of applications for design approvals including radio altimeters. New 5G C-band spectrum use (expected as early as Dec 5, 2021 in the US and in varying stages of implementation around the world) poses a potential risk to the operation of this equipment. Because there is no clear and common understanding of what constitutes safe integration of current or newly proposed equipment in the new spectrum environment, AIR-600 needs to be aware and may be involved. AIR-622 will containe with AIR-720. AIR-7220 and AIR-600 are developing an SAIB as an integration of current or newly proposed equipment in the new spectrum environment, AIR-600 in expect awareness and recommendations for this issue. RTCA is working on new standards for radio altimeters to be compatible with SG C-band interference but that is not expected until at least late-2022. Until we have that standard, it may not be possible to set appropriate compliance.
Small Airplane	A-0309	Avionics	Nonconformal Heads up Display	If the applicant is seeking to install a nonconformal heads up display, then they must obtain an accepted means of compliance(MOC). Nonconformal heads-up displays do not take into account external reference information. They act as a repeater to the electrical flight instrument system. They are not considered required equipment but have safety enhancing capability.
Small Airplane	A-0310	Avionics	Simple Autopilots	If the applicant is seeking to install simple autopilots, then they should contact the SASB for additional guidance.
Small Airplane	A-0311	Avionics	Envelope Protection and Emergency Descent Mode	If the applicant is proposing to install new control functions within the autopilot on a new or existing avionics system which provides automatic stability augmentation and envelope protection or the addition of an emergency descent mode, then they must obtain an FAA accepted means of compliance (MOC). At amendment 23-64 and after, applicants should incorporate FAA accepted means of compliance (MOC) into their certification planning.
Small Airplane	A-0312	Avionics	Adaptive Controllers/Autopilots	If the applicant proposes to use Adaptive Controllers/Autopilots, then they must coordinate their proposals with the SASB to determine the level of FAA involvement with respect to policy or guidance. Adaptive controllers/autopilots are non-deterministic systems and are new to the Part 23 fleet. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.
Small Airplane	A-0313	Avionics	Autoland Systems	If the applicant is proposing the installation of systems that provide automatic landing capability in a piloted airplane, then they must coordinate with the SASB. Applicants may be required to apply special conditions to establish adequate requirements at 14 CFR part 23 amendment 23-63 or earlier based on the requirements found in 14 CFR 25.1329 (amendment 25-119), or may need to obtain FAA accepted means of compliance for piloted airplanes. This issue will likely be in combination with, or installed after an autothroust system. Autoland capability is also assumed an inherent function installed in UAS and pilotless aircraft, which already have involvement by the Standards Branch staff. Operator certification (pilot training and maintenance program) is generally required to utilize the autoland function once the type design is approved. At amendment 23-64 and after, applicants should incorporate the requirements of the special condition into their certification planning as FAA accepted means of compliance (MOQ) in lieu of a special condition.

Small Airp 20 Small Airp 21 Small Airp 22 Small Airp	plane A-0401 plane A-0402	Avionics Cabin Safety Cabin Safety	Emergency Use Only Autoland Systems Emergency Exits - Unobstructed Path Seats - Maximum Allowable Seating Limitations	If the applicant proposes to add emergency use only functionality that provides for automatic landing of the airplane, then the SASB will be involved in the project. Note: This functionality is not to be confused with "normal" autoland capability. This functionality provides for autonomous control and landing of the airplane to a system-determined suitable airport. The need for equivalent level of safety (ELOS) findings and corresponding means of compliance (MOC) must be determined on a case-by-case basis for each installation. The FAA has developed draft policy. The applicant should define the specific intended functions for § 23.130 compliance, and provide a developed and provide a paper suitable airport and provide a developed and subject to a propriet and subject to the energency use autoland may not be able to be shown to compliance. The FAA has developed an issue paper template (S-1) to address MOC for these two regulations, up to and including amendment 23-63. Certain aspects of the energency use autoland may not be able to be shown to comply with existing plot-centric 14 CFR part 23 regulations. The applicant should identify the affected regulations and free compliance (MOC) and the propriet and the provide for an equivalent level of safety intended by the regulations and request an ELOS linding by the FAA for those aspects. The FAA has developed an issue paper template (S-2) to address the potential regulatory requirements that may need an ELOS. At amendment 23-64 and after, applicants, applicants should incorporate FAA accepted means of compliance (MOC) into their certification planning in leu of an ELOS finding. If the applicant is seeking to comply with 14 CFR part 23.807(b) at amendment 23-63 and prior, then they may require an Equivalent Level of Safety (ELOS) Finding. The FAA has allowed exemptions or ELOS where a seatback based on an evacuation test. Applicants complying with 14 CFR part 23.807(b) at amendment 23-63 and prior must maintain an unobstructed path to emergency exits. At amendment 2
Small Airp	olane A-0402		Unobstructed Path Seats - Maximum Allowable	seatback could be pushed out of the path without any additional actions, while other foreign airworkiness certification authorities have permitted additional actions on seatbacks and climbing over seats with lowered seatbacks based on an evacuation test. Applicants complying with 14 CFR part 23.807(b) at amendment 23-63 and prior must maintain an unobstructed path to emergency exits. At amendment 23-64 and after, applicants should incorporate FAA accepted means of compliance (MOC) into their certification planning in lieu of an ELOS finding. Seating configurations are established as part of the aircraft type design and are listed on the Type Certificate Data Sheet (TCDS). Maximum allowable seating configurations may be changed by amending the Type Certificate (TC) or by a Supplemental Type Certificate (STC). The established maximum seating configuration as listed on a TC (on the TCDS) or STC (as a limitation) does not refer to the maximum number of seats occupied, but instead, the maximum number of seats allowed to be installed in the airplane. The seating configuration is the maximum allowable, not necessarily the number of seats installed in the number of seats installed in the TC (TCDS) or STC (limitations). The EATM also states the maximum reading configuration
22		Cabin Safety		Certificate (TC) or by a Supplemental Type Certificate (STC). The established maximum seating configuration as listed on a TC (on the TCDS) or STC (as a limitation) does not refer to the maximum number of seats allowed to be installed in a given an examination of the configuration used to dictate aircraft maintenance requirements are determined by the number of allowed seats listed in the TC (TCDS) or STC (limitations). The AEM also states the maximum allowed seats listed in the TC (TCDS) or STC (limitations).
Small Airp	plane A-0502			consistent with the TC or STC. An STC that reduces seat count must actually remove seats from the airplane down to the established maximum number of allowable seats and there should be a limitation on the face of the STC that clearly indicates number of allowable seats installed. If seating is integral to the product (i.e. tollet, divan, bench) it must be (1) placarded that the seat may not be occupied for take-off and landing or (2) it must be counted as part of the total seat count. Note: For Part 21/41 limitations are stated on the TCDS (or STC) and prior seating limitation should be part of TCDS (as indicated by part 21), this is not specifically addressed at amendment 23-9 and prior. At amendment 23-0 through 23-63 §23.1524 and§23.1583 address the maximum permissable seating configurations to be indicated in the TCDS and AFM. At amendment 23-64 seating configurations are addressed in§23.2005 (airplane "level") and§ 23.2620 (via accepted MOC ASTM3264-17, section 5.15.1, and ASTM 3174-15, section 4.9). These limitations should be listed on TCDS (or STC) and in AFM.
		Electrical Systems	Battery - Rechargeable Lithium/Battery Systems Installation	If the applicant is seeking approval of rechargeable lithium batteries and/or battery system(s) installations on a 14 CFR part 23 aircraft, then the following are needed: a means of compliance issue paper (Means OCIP) containing rechargeable lithium battery safety objective (SO) requirements and, a method of compliance issue paper (Method OCIP) containing a method of compliance to the means OCIP The RTCA DO-311A is the Minimum Operating Performance Standard of the FAA TSO C179b. The RTCA DO-311A is also the industry consensus standard that is a method used to comply with the Means OCIP.
23				The Method OCIP documents the compliance method for each of the SOs listed in the Means OCIP Acceptable methods of compliance for button/Coin cells less than 2 watt-hours of energy are: UL 1642 UL 2054 IEC 62133
				This SAIL item includes two template issue papers on rechargeable lithium batteries to address installations on a 14 CFR part 23 aircraft: a) Means of compliance Issue Paper (Means OCIP) b) Method of compliance Issue Paper (Method OCIP) Note: The appendix of part 23 in Draft Advisory Circular 20-184A published for public comment on 10/12/2018 and posted on ANMirrio is not to be used as a Method of compliance to the Means OCIP. Applicants are required to step up to 14 CFR part 23 amendment 64 to avoid the need of issuing special conditions
Small Airp	plane A-0503	Electrical Systems	Battery - Non-Rechargeable Lithium/Battery Systems Installation	If the applicant is seeking approval of Non-rechargeable lithium batteries and/or battery system(s) installations on a 14 CFR part 23 aircraft, then the following are needed: a means of compliance issue paper (Means OCIP) containing Non-rechargeable lithium battery safety objective (SO) requirements and, a method of compliance issue paper (Method OCIP) containing a mehod of compliance to the Means OCIP The RTCA DO-227A is the Minimum Operating Performance Standard of the FAA TSO C142b. The RTCA DO-227A is also the industry consensus standard that is a method used to comply with the Means OCIP. The method OCIP documents the compliance method for each of the SOs listed in the Means OCIP.
24				The acceptable method of compliance for button/Coin cells less than 2 watt-hours of energy is UL1642. This SAIL item includes two template issue papers on Non-rechargeable lithium batteries to address installations on a 14 CFR part 23 aircraft: a) Means of compliance Issue Paper (Means OCIP) b) Method of compliance Issue Paper (Method OCIP) Note: The appendix of part 23 in Draft Advisory Circular 20-192 published for public comment on 7/31/2018 and posted on ANMinfo is not to be used as a Method of compliance to the Means OCIP. Applicants are required to step up to amendment 23-64 to avoid the need of issuing special conditions.
Small Airp	plane A-0504	Electrical Systems	Battery - Storage Battery	If the applicant proposes to use an aircraft electrical system design that has the storage battery being used as starter power and emergency power, then they may require an Equivalent Level of Safety (ELOS) finding at amendment 23-63 or earlier to comply with 14 CFR 23.1353(h). Per this design, the aircraft must use the same battery that is used for engine starting as well as to meet the 30 emergency minute requirement. At amendment 23-64 and after, applicants should incorporate FAA accepted means of compliance (MOC) into certification planning in lieu of an ELOS finding.
Small Airp		Fire Protection	Fire Protection of Flight Controls, Engine Mounts, and Other Flight Structure	If the applicant proposes to use materials not previously accepted as fire proof, such as composite materials, then they may need to obtain an FAA accepted means of compliance(MOC) to 14 CFR 23.865 at amendment 23-63 and prior. Testing is usually required to validate the performance of these materials.
27 Small Airp	plane A-0602	Fire Protection	Composite or Nonmetallic Firewall	If the applicant proposes a firewall constructed with composite materials, then they must obtain and incorporate FAA accepted means of compliance (MOC) to 14 CFR 23.601, 23.605, 23.859, 23.863, 23.903, 23.1013, 23.1014, 23.1121, 23.1123, 23.1141, 23.1182, 23.1183, 23.1191, 23.1192, and 23.1193 at amendment 23-63 and prior to ensure their proposed test and evaluation will be adequate.
Small Airp	plane A-0603	Fire Protection	Fire Protection - Turbine Engine Oil Systems POC: Pretz, Jeff Without a Shutoff Valve	If the applicant is seeking to install a turbine-engine-oil system and all parts of the system are not shown to be fireproof when a shutoff valve is not incorporated into the system, then they may need to obtain an FAA accepted means of compliance (MOC) to 14 CFR 23.1013(e) and 23.1189(b) has proven problematic in the past. At all almendment levels, applicants should incorporate FAA accepted means of compliance (MOC) into their certification planning.
Small Airp	plane A-0604	Fire Protection	Fire Extinguishing/Suppression Agent	If the applicant proposes the use of non-Halon fire extinguishing/suppression agents for use in lavatory trash receptacle bottles, handheld fire extinguishers, engine/APU fire extinguishing, cargo compartment fire suppression, etc., then they may need to obtain an FAA accepted means of compliance (MOC) to 14 CFR 23.851, 23.855, 23.863, 23.1195, 23.1197, 23.1201, at amendment 23-63 and prior. Halon is being phased out of airplane applications per ICAO deadlines. At amendment 23-64 and rate, applicants should incorporate FAA accepted means of compliance (MOC) in the recretification planning.
Small Airp		Flight Controls	Highly Augmented Flight Path Control Systems/Fly By Wire (FBW)	If the applicant proposes to use Highly Augmented Flight Path Control Systems/Fly By Wire (FBW), then they may require special conditions, Equivalent Level of Safety (ELOS) findings, or may need to obtain FAA accepted means of compliance (MOC) at any part 23 amendment. FBW control systems are new to the Part 23 fleet and has only been certified to date under Parts 25 & 29 with the use of Special Conditions and Equivalent Levels of Safety. FBW systems are highly integrated flight controls and propulsion systems that may require new display symbology, and may require new performance and handling quality testing requirements. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.
31 Small Airp	plane A-0702	Flight Controls	Fully Autonomous Flight Control Systems	If the applicant is proposing to use Adaptive Controllers/Autopilots, then they must coordinate their proposals with the SASB to determine the level of involvement the FAA requires with respect to policy or guidance. Adaptive controllers/autopilots are non-deterministic systems and are new to the Part 23 fleet. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.

P	Product Type	Issue ID#	Category	Subject	Description
32 S	mall Airplane	A-0801	Flight Test	Non - Functioning Cockpit Control	If the applicant is seeking to install a non-functioning cockpit control, then they may be required to apply an Equivalent Level Of Safety (ELOS) to establish adequate requirements at amendment 23-63 or earlier. At amendment 23-64 and after, applicants should coordinate with the Policy and Innovation Division and incorporate the requirements of the ELOS into their certification planning for 14 CFR 23.2500, 23.2505, 23.2605 and 23.2610 as FAA accepted means of compilance (MOC) in lieu of an ELOS.
33 S	imall Airplane	A-0802	Flight Test	Active Stick Technology	If the applicant proposes to use Active Stick Technology, then they must coordinate their proposals with the SASB to determine the level of FAA involvement with respect to policy or guidance. Active stick technology is typically associated with Fly By Wire (FBW) control systems are new to the Part 23 fleet. Active stick systems are not covered at Amendment 23-63 and earlier and may require new means of compliance (MOCs) at Amendment 23-64 and later. They may require new inceptor feel characteristics, human qualities, and performance& handling quality testing requirements. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.
34 S	mall Airplane	A-0803	Flight Test	Compliance to Stability Regulations	If the applicant is seeking to show compliance to stability regulations for unlimited acrobatic airplanes, then they may need a special condition for amendment 23-63 or earlier. At amendment 23-64 and after, applicants should incorporate the requirements of the special condition into their certification planning as an FAA accepted means of compliance (MOC) in lieu of a special condition.
35 S	mall Airplane	A-0901	Fuel System	Fuel- Approval of New Fuel	If the applicant is seeking approval to use a new fuel type, then they must coordinate their proposal with the SASB (and AIR 20 Alternative Fuels Program Office) to determine the level of FAA involvement with respect to policy or guidance. There is considerable activity across the aviation industry, therefore, energy behind the introduction of new aviation fuels is high. These efforts are highly visible and potentially controversial. NOTE: This is intended for fuels new to aviation where there is no existing FAA accepted standard for that fuel, not the approval of an existing aviation fuel for use on a specific model.
36 S	mall Airplane	A-0902	Fuel System	Fuel System - Pressure Defueling	If the applicant is seeking to install a pressure defueling system in accordance with 14 CFR 25.979(e), then they may require special conditions at amendment 23-63 and earlier to establish adequate requirements. At amendment 23-64 and after, applicants should coordinate 23.2400(c) and 23.2430(c) with the SASB to incorporate the requirements of the special condition into their certification planning as FAA accepted means of compliance (MOC) in lieu of a special condition.
37 S	mall Airplane	A-0903	Fuel System	Fuel System - Temperature	If the applicant is seeking to establish the minimum level of safety expected for the effect of elevated fuel system temperatures on the airplane, then they may require special conditions at amendment 23-63 and earlier. Fuel systems configured to reject engine heat through the airplane fuel tanks by use of an engine oil/fuel heat exchanger or other means may result in fuel tank temperatures above the critical temperature test requirements of 14 CFR 23,981 and 23,985(d). At amendment 23-64 and after, applicants should coordinate 23.2430(a)(3) and (b)(1) with the SASB to incorporate the requirements of the special condition into their certification planning as FAA accepted means of compliance (MOC) in lieu of a special condition.
38 S	mall Airplane	A-1001	Human Factors	Electronic Flight Instrument Systems	If the applicant is proposing to install an electronic flight instrument system (EFIS) that has not been previously evaluated by the SASB, then the FAA may require a multi-pilot usability and human factors evaluation. This evaluation (or past EFIS) have resulted in the need for Equivalent Level of Sately (ELOS) finding(s) or additional FAA accepted means of compliance (MoC) to 14 CFR 23. 139(d), 23.1311, 23.1321 and 23.1322 at amendment 23-63 and prior. At amendment 23-64 and after, applicants should incorporate FAA accepted means of compliance (MoC) into their certification planning in lieu of an ELOS finding.
39 S	mall Airplane	A-1002	Human Factors	Touch Screens	If the applicant is seeking to install touch screens (multi-function controls), then they should follow the FAA accepted means of compliance (MOC) contained in the applicable chapters of FAA Advisory Circular AC 20-175, "Controls for Flight Deck Systems." If the touchscreen has not previously evaluated by the FAA, then the FAA will evaluate their level of involvement in the project.
40 S	mall Airplane	A-1101	Icing	Flight Into Known Icing (FIKI)	Applicants must coordinate with the SASB if they are. Seeking FIKI approvals, or Proposing changes that affect or could affect existing FIKI approvals, or Proposing to modify an aircraft that has icing related airworthiness directives (AD), or Proposing to make autopiolit on modifications on an airplane certificated for icing prior to Amendment 23-43 to ensure the airplane has adequate low airspeed awareness. Regulatory Reference: 14 CFR 23:0491, 23:1416, 23:1419 at amendment 23-63 and prior. 14 CFR 23:23:2415, 23:2540 at a mendment 23-63 ead prior. Into Known licing (FIKI)
41 S	imall Airplane	A-1103	Icing	Engine Operation in Ice Crystal Conditions	If the applicant is using Electronic Engine Control (EEC) logic on an icing certified airplane to determine if the airplane is operating in ice crystal conditions, then the SASB will be involved in the project. For example, blockage of the Tt0 probe by ice crystals has resulted in engine thrust rollbacks in ice crystal environments.
42 S	mall Airplane	A-1401	Propulsion	Dual Electronic Ignition Systems	If the applicant is seeking to replace both traditional magnetos with a dual electronic ignition system, then they may be required to address the relevant topics in Policy Memo PS-ACE100-2004-10024 in a means of compliance issue paper for \$23.103(c) for multi-engine installations at amendment 23-63 rearlier. At amendment 23-64 and after, applicants should address the relevant topics in Policy Memo PS-ACE100-2004-10024 in a means of compliance issue paper for \$23.2410 until the appropriate ASTM standards can be revised.
43 S	mall Airplane	A-1402	Propulsion	Electric or Hybrid Electric Propulsion Systems	If the applicant is proposing to install electric or hybrid-electric propulsion systems, then they may require equivalent level of safety (ELOS) findings, special conditions (SC), or additional design criteria to address features not envisioned. The need for SC, ELOS, design criteria and corresponding means of compliance (MOC) must be determined on a case-by-case basis for each installation. Specific policy does not exist at this time. Projects with electric propulsion or hybrid electric multi-electric propulsion electric multi-electric mul
44 S	mall Airplane	A-1404	Propulsion	Autothrust System	If the applicant is seeking to install an autothrust (autothrottle) system, then they may be required to apply special conditions to establish adequate requirements at amendment 23-63 or earlier based on the requirements of 14 CFR 25.1329. At amendment 23-64 and after, applicants should coordinate with the SASbB and incorporate the requirements of the special conditions into their certification planning for 14 CFR 23.2500, 23.2505. 23.2510, 23.2505 as FAA accepted means of compliance (MOC) in lieu of a special condition.
45 S	mall Airplane	A-1405	Propulsion	Engine Control System	If the applicant is seeking to install a full authority or supervisory engine control system (EEC/FADEC), then they may be required to apply special conditions to establish adequate requirements at amendment 23-63 or earlier. At amendment 23-64 and after, applicants should incorporate the requirements of the special condition into their certification planning as FAA accepted means of compliance (MOC) in lieu of a special condition.
46 8	mall Airplane	A-1406	Propulsion	Turbine Engines Shutdown	If the applicants turbine engine control system only includes a single means to shutdown the engine, then the applicant may require an FAA accepted means of compliance (MOC) to 14 CFR 23.1141(e) at amendment 23-83 and prior. The installation requirements of § 23.1141(e) require that no single failure of a turbine-require control system causes failure of any powerplant function necessary for safety. Most engine control systems provide a redundant means for engine shutdown. For example, if the installed engine control system only provides a single means for shutting off fuel to the engine, then redundant means for engine shutdown must be provided to ensure a simple, quick, and safe shutdown if the primary means of shutdown fails. At amendment 23-84 and after, applicants should coordinate 23.2410(a) with the SASB to incorporate an FAA accepted MOC into their certification planning.
47 S	mall Airplane	A-1407	Propulsion	Powerplant Indications - Use of Digital Only Indications	If the applicant is seeking to install digital only display(s) in lieu of analog displays for powerplant instruments when complying with 14 CFR 23.1305 (where the term "indicator" is included in the regulation) and § 23.1549, since digital only indicators do not provide for arc, line, or radial markings, then they may require an Equivalent Level of Safety (ELOS) finding for §23.1301, 23.1305, 23.1311, 23.1321 and 23.1549 at amendment 23-63 or earlier. At amendment 23-64 and after, applicants should coordinate 23.2500, 23.2505, 23.2606, 23.2615, 23.2610 with the SASB to incorporate FAA accepted means of compliance (MOC) into their certification planning in lieu of an ELOS finding.
48 8	mall Airplane	A-1408	Propulsion	Engine Cooling - Climb Speeds	If the applicant is proposing compliance with 14 CFR 23 1047, amendment 23-51, "Cooling test procedures for reciprocating engine powered airplanes", using an airspeed greater than the best rate of climb speed (Vy) or balked landing climb (VREF) speeds, then they may need to obtain an FAA accepted means of compliance (MOC). Section 23.63(a)(2), amendment 23-62, requires §§ 23.65 Climb: All engines operating; and 23.77, balked landing, to use speeds not less than the speed used to demonstrate compliance with the powerplant cooling requirements (§§ 23.1041, amendment 23-51, through 23.1047). Applicants shorp to a management of compliance that will ensure adequate engine cooling during all expected operating conditions. Applicants should coordinate with the SABs to determine an appropriate MOC and incorporate the FAA accepted MOC into their certification planning.
49 S	mall Airplane	A-1409	Propulsion	Engine Cooling - Coolant Tank Capacity Requirements	If the applicant is seeking to install liquid cooled reciprocating engines, then an Equivalent Level of Safety (ELOS) finding to 14 CFR 23.1061(b) may be required at any amendment up to and including amendment 23-63. Some 14 CFR part 33 approved reciprocating engines include a self-contained cooling system that may not meet the installation coolant tank capacity and expansion space requirements of 14 CFR 23.1061(b). At amendment 23-64 and after, applicants should incorporate FAA accepted means of compliance (MOC) into their certification planning in lieu of an ELOS finding.
50 S	mall Airplane	A-1410	Propulsion	Energy/Thrust Management Systems/Displays for Electronic Propulsion	If the applicant proposes to use Energy and/or Thrust Management Systems, then they must coordinate their proposals with the SASB to determine the level of FAA involvement with respect to policy or guidance. Aircraft designed to incorporate electric propulsion systems, distributed propulsion systems, or operate in different flight modes (vertical, transitory, forward flight) may be required to utilize energy and/or thrust management systems which are new to the Part 23 fleet. Considerations include the monitoring of battery states, individual thrust vectors (magnitude and direction) as well as malfunction annunciations. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.
51 S	mall Airplane	A-1411	Propulsion	Distributed Propulsion Systems	If the applicant proposes to use distributed propulsion systems, then they must coordinate their proposals with the SASB to determine the level of FAA involvement with respect to policy or guidance. Highly-augmented, distributed propulsion systems are new to the Part 23 fleet. They are typically defined as a highly-augmented propulsion system consisting of a single throttle controlling a multi-motor system. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.
52 S	mall Airplane	A-1412	Propulsion	Propulsion as a Flight Control Effector	If the applicant is proposing to use propulsion as a flight control effector, then they must coordinate their proposals with the SASB to determine the level of FAA involvement with respect to policy and guidance. The use of propulsion as a flight control effector is new to the Part 23 fleet. Examples of this unique type of control may be found in a distributed propulsion system or with an aircraft designed to operate in multiple flight modes. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.
53 53	mall Airplane	A-1502	Security	Security Considerations (Cybersecurity)	If the applicant proposes to use a wireless connectivity for data transfers to onboard avionics, then they may need to obtain an FAA accepted means of compliance (MOC). The applicant should incorporate Amendment 64 rules 14 CFR 23.2500, 23,2500 and 23.2510 and the MOC to their certification planning for any system or item that may require a cybersecurity assessment. Applicants should contact AIR-622 for additional guidance.
54 S	imall Airplane	A-1601	Software/Airborne Electronic Hardware	Artificial Intelligence Software	If the applicant is proposing to use artificial intelligence (AI) software, then this will require FAA involvement. References: FAA Advisory Circular (AC) 20-115D, DO-178C. Applicants should contact the SASB for additional guidance.
₅₅ S	imall Airplane	A-1602	Software/Airborne Electronic Hardware	Multi-Core Processors	If the applicant proposes to use software-based aircraft systems that utilize multi-core microprocessors (i.e., without disabling unused cores, etc.), then they must use or obtain an FAA accepted means of compliance (MOC).
56 S	mall Airplane	A-1603	Software/Airborne Electronic Hardware	Unmanned Aircraft Systems - Software and Hardware Design Assurance	If the applicant is seeking to establish the software and airborne electronic hardware (AEH) design assurance airworthiness criteria in accordance with 14 CFR 21.17(b), then they must use or obtain an FAA accepted means of compliance (MOC). The requirements currently established for Software and AEH design assurance may not be appropriate depending on the Unmanned Aircraft System (UAS) design and concept of operations (CONOPS).

	Product Type	Issue ID#	Category	Subject	Description
57	Small Airplane	A-1701	Systems and Equipment	to Oxygen Systems on Unpressurized Airplanes With a Single Pilot	about the severity of oxygen failure conditions and different approaches were used for the applicability of 23.1309/23.2510. Öxygen system failure during unpressurized flight at 25,000 feet could be potentially catastrophic, but could also be less severe, depending on the pilot's ability to recognize the failure and respond before becoming excessively impaired by hypoxia. 23.1309/23.2510 are not applied when specific requirements adequately address failure or abnormal operation, and determining the applicability is not always clear. An issue paper has been developed to improve standardization for classifying oxygen failure conditions and for standardizing the applicability of 23.1309/23.2510 for conventional oxygen equipment on unpressurized airplanes that operate up to 25,000 ft with a single pilot. Regulatory Reference: 14 CFR 23.1309 at amendment 23-41 through 23-62
58	Small Airplane	A-1703	Systems and Equipment	Data Link System Supporting Air Traffic Services (ATS) Communications (NEXTGEN)	If the applicant is seeking to install aircraft data communication systems used for air traffic services (ATS), then they must incorporate FAA accepted means of compliance (MOC). Advisory Circular AC 20-140C. "Guidelines for Design Approval of Aircraft Data Link Communication Systems Supporting Air Traffic Services (ATS), when they must incorporate FAA accepted means of compliance (MOC). Additionally, policy memorandum, AIR-6B0-17-6B0-DM281, AC 20-140C General Memo, dated December 08, 2017, provides clarification on FANS 1/A+, associated viable sub-networks, and use of operating limitations in the Airplane Flight Manual. Examples of ATS data communication systems are controller pilot data link automatic Dependent Surveillance-Contract, and Aircraft Communications Addressing and Reporting System. AC 20-140C covers different types of data link systems and interoperability criteria respectively. Applicants should incorporate FAA accepted means of compliance (MOC) into their certification planning and coordinate with the SASB of their intent to propose an alternative FAA accepted MOC in accordance with AC 23.2010-1, FAA Accepted Means of Compliance Process for 14 CFR Part 23, that can be incorporated into their certification planning.
59	Small Airplane	A-1707	Systems and Equipment	Remotely Piloted Systems/ Command & Control (C2) Systems	If the applicant proposes to use Remotely Piloted Systems, then they must coordinate their proposals with the SASB to determine the level of FAA involvement with respect to policy and guidance. Remotely piloted aircraft are found in the Unmanned Aircraft Systems (UAS) community and are new to the Part 23 fleet. There is UAS guidance for remotely piloted vehicles that includes definitions, specifications and testing requirements for command and control systems but this may have to be modified to adapt it to Part 23 aircraft. Additional considerations include where and how this aircraft is to be operated and whether or not it is carrying passengers. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.
60	Small Airplane	A-1708	Systems and Equipment	Airbags	If the applicant is seeking to install airbags on the airframe, then they may need to obtain an FAA accepted means of compliance (MOC) or may be required to apply a special condition. Applicants should contact the SASB for any updated information or guidance.
61	Small Airplane	A-1709	Systems and Equipment	Run Time Assurance/Health Monitoring Executive Systems	If the applicant proposes to use Run-Time Assurance/Health Monitoring Executive Systems, then they must coordinate their proposals with the SASB to determine the level of FAA involvement with respect to policy and guidance. Run-Time Assurance/Health Monitoring Executive Systems are high-level monitoring and protection systems and are new to the Part 23 fleet. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.
62	Small Airplane	A-1710	Systems and Equipment	Real Time Parameter Identification Systems	If the applicant proposes to use Real-Time Parameter Identification Systems, then they must coordinate their proposals with the SASB to determine the level of FAA involvement with respect to policy and guidance. Real-Time Parameter Identification Systems are non-deterministic systems used to mathematically model something in real-time and are new to the Part 23 fleet. The FAA is actively working on draft policy and guidance for the use of this new and novel technology.
63	Airships Gliders (Sailplanes) Very Light Airplanes	A-1801	Other	Special Class Products	Airships, Gliders (Sailplanes), and Very Light Airplanes are certificated by the FAA under 14 CFR 21.17(b) as "special class" products. These special class products use airworthiness design criteria as their certification basis rather than the airworthiness standards under Title 14, Code of Federal Regulations (14 CFR), part 23 etc. The FAA has published accepted means of compliance (MOC) that establish the airworthiness criteria for Gliders (Saliplanes), Very Light Airplanes, and Airships. The FAA published Advisory Circulars (AC) are: AC 21.17-2A, Type Certification-Fixed Wing Gliders (Saliplanes) establishes European Aviation Safety Agency (EASA) CS-22 and Joint Airworthiness Requirements (JAR-22) sailplane regulations as acceptable airworthiness criteria, AC 21.17-3, Type Certification of Very Light Airplanes under FAR 21.17(b), establishes EASA CS-Very Light Airplanes (SC-VLA) and JAR-VLA regulations as acceptable airworthiness criteria, AC 21.17-1A, Type Certification—Airship, and FAA-P-8.110-2, Airship Design Criteria and additional policy memors. The FAA must provide a public notice and respond to public comments when changes to airworthiness criteria are proposed to be applied to a new product. Any new products proposed to be certificated under 14 CFR 21.17 (b) special class and any changes to existing special class products that modify the established airworthiness criteria or deviate from the FAA accepted MOC will require Policy and Innovation involvement.
64	Balloon	A-1802	Other	Balloon - Lifting Envelope Changes	If an applicant is proposing to replace the lifting envelope of a type certificated balloon with another lifting envelope (i.e. via Supplemental Type Certificate), they must retain and reinstall the original data plate and install an additional supplemental data plate as close as physically possible to the original data plate. This information is provided to communicate the requirements of FAA data plate removed and installation of a supplemental data plate for balloon envelope changes as the data plate is typically attached to the lifting envelope. Deviations from this guidance will necessitate SASSB review of the applicant's proposed changes. This communication is provided due to confusion primarily seen among STC applicants about the appropriate handling of the data plate in stalled by the original equipment manufacturer and the need for a supplemental data plate. FAA Order 8130.2J, Section 2-3, paragraph e(2)(c) states: When an aircraft has been modified to conform to another make/model, verify the supplemental ID plate contains the information specified in 14 CFR part 45.13 FAA Advisory Circular, AC 45-2E paragraph 6.7 Notes: When an aircraft has been modified to conform to another model of the same make, a new ID plate is required to be attached as close as physically possible to the original ID plate is not to be removed or attented in any manner."
65	Balloon Space	A-1806	Other	Aircraft in Low Earth Orbit (LEO)	If the applicant is seeking to operate an aircraft that will reach low-Earth orbit (LEO) or build a vehicle to operate in LEO, then they are under the jurisdiction of Title 51 U.S.C. Chapter 509, and, depending on their proposed operations my also be stuitipe to Title 49 U.S.C and its accompanying regulations as well. On Seaphenium eylich law, applies to a potential balloon applicant for a commercial space tourism vehicle (51 U.S.C. or 49 U.S.C.). The balloon applicant in question was determined to be entirely under the jurisdiction of 51 U.S.C. Chapter 509 "partly" because the vehicle would make a rapid transit of and exit from controlled airspace and will not loiter. However the interpretation only applied to the altitudes being proposed by the specific applicant. When not operating as a launch vehicle, the appliance would be required to operate under the appropriate valid provision of Title 49 U.S.C. and its accompanying regulations. NOTE: The legal interpretation rondered no opinion on what constitutes outer space-and the FAA renders no opinion on that question-a person would experience the same physiological responses as 30 kilometers as if exposed to the environment of low-Earth orbit (LEO).
66	Small Airplane	A-1807	Other	Amendment 23-62 Errors	If an applicant is using part 23, amendment 23-62, for new products or product changes including STCs, then the SASB must determine whether an equivalent level of safety (ELOS) finding is necessary due to 14 CFR part 23, amendment 23-62 containing various errors. The FAA develops/issues ELOS findings per 14 CFR 21.21(b). However, the FAA will likely delegate the compliance finding to the Foreign Civil Aviation Authority for the part 23, amendment 23-62 containing various errors. ELOS finding memorandum. A copy of these errors and their corrections is available upon request. Applicants using part 23 amendment 23-62 as the Means of Compliance (MOC) to amendment 23-64 until a loss of the Safety of the Safety S
67	Small Airplane	A-1808	Other	Required Navigation Performance Authorization Required (RNP AR) Coordination	FAA headquarters retains oversight of all applications for operations approval to conduct Required Navigation Performance Authorization Required (RNP AR) operations. To avoid delays in processing these operations applications and confirming aircraft qualification, Aircraft Operations in the Navigation and Flight Technologies section (AIR-6B1) at FAA headquarters. Coordinating the application with AIR-6B1 will ensure the aircraft qualification requirements are met and documented in a manner facilitating an applicant's expeditious RNP AR operations approval.
68	Balloon	A-1810	Other	Aircraft in Low Earth Orbit (LEO)	If the applicant is seeking to operate an aircraft that will reach low-Earth orbit (LEO) or build a vehicle to operate in LEO, then they are under the jurisdiction of Title 51 U.S.C, Chapter 509, and, depending on their proposed operations my also be subject to Title 49 U.S.C and its accompanying regulations as well. On September 26, 2013, FAA legal coursel issued an interpretation under FAA's avaitation and space statuse to determine which law applies to a potential balloon applicant for a commercial space tourism vehicle (51 U.S.C. Chapter 509 partly* because the vehicle would make a rapid transit of and exit from controlled airspace and will not lotter. However, the interpretation only applied to the altitudes being proposed by the specific applicant. When not operating as a launch vehicle, the appliance would be required to operate under the appropriate avaitation provision of 149 U.S.C. and its accompanying regulations. NOTE: The legal interpretation opinion on what constitutes outer space but used 30 kilometers because at 30 kilometers (98,425 feet), water and blood boil, and an unprotected person would rapidly experience fatal decompression. Regardless of whether 30 kilometers on opinion on that question-a person would experience that as 30 kilometers as if exposed to the environment of low-Earth orbit (LEO).
69	Small Airplane	A-1811	Other	Aircraft With Different Flight Modes (Vertical, POC: Schaller, Ross Transition, Forward Flight) [eVTOL]	If the applicant proposes to design an aircraft to operate in different flight modes (vertical, transitory, and forward flight), then they must coordinate their proposals with the SASB to determine the level of FAA involvement with respect to policy or guidance. Aircraft like the new class of Vertical Takeoff and Landing (VTOL) vehicles are capable of flying in different modes of flight (vertical, transitory, and forward) and are new to the Part 23 fleet. There are many considerations not currently addressed in our requirements including new pilot vehicle interfaces, new displays for energy and thrust management, handling qualities, and unique malfunction serior. The FAA is actively working on draft policy and guidance for the use of this new and novel technology. The FAA is actively working on draft policy and guidance for the use of this new and novel technology. The FAA is actively working on draft policy and guidance for the use of this new and novel technology. The FAA is actively working on draft policy and guidance for the use of this new and novel technology. The FAA is currently deciding if these vehicles will be 14 CFR 2.1.17(b) (special class) or 14 CFR 2 with special conditions.
70	Small Airplane	A-1812	Other	Basic Med Operations	If the applicant is seeking to allow 14 CFR part 68 basic med operations in some 14 CFR part 23 airplanes, then they may need to apply for type certificate action either through an amended type certificate or supplemental type certificate (SIC) if their airplane is certificated above 6000 pounds maximum take-off weight and/or have seat counts greater than 6. The FAA has issued a policy memo that addresses these expectations more clearly and that memory is available upon request.
71	Small Airplane	A-1813	Other	Novel, Unique, or Unusual Design Features	If a technology or product change is novel, unique, or has unusual design features, then applicants and ACO staff should contact the applicable standards branch. Special Conditions are issued if the existing applicable ariworthness standard cannot be contain adequate or appropriate safety standards for the ariphane, airplane engine, or propeller because of novel, unique or unusual design features of the product to be type certificated (refer to 14 CFR 11.19, 21.16, and 21.101 (d)). Equivalent Level of Safety (ELOS) findings may also be applicable when literal compliance with an aniworthiness standard cannot be shown and compensating factors exist that can be shown to provide an ELOS to the regulation in which an ELOS is sought. (refer to § 21.21(b)(1)). Novel, unique, or unusual design features may include but are not limited to the following issues(s): 1) Materials; 2) Processes; 3) Design features(s) that would produce an unsale condition, 4) Significant technology issues that are of controversial design; 5) Unique operational consideration(s), and 6) Other. When proposing changes to small airplane products certificated prior to amendment 23-64, applicants are encouraged to comply with later provisions of amendment 23-64 when doing so eliminates the need for special conditions or ELOS findings. Complying with amendment 23-64 performance-based requirements, special conditions and ELOS findings formerly required in its prescriptive predecessors—amendment 23-63 or serialier—could be potentially converted to means of compliance (MOC). The provisions and details of those former special conditions and ELOS findings formerly required in its prescriptive predecessors—amendment 23-63 or arealizer—could be potentially converted to means of compliance of the provisions of a serial conditions and ELOS findings formerly required in its prescriptive predecessors—amendment 23-63 or arealizer—could be potentially converted to means of compliance of the provisions of \$2,2010, FAA Accepted Means of Compliance of the provisions
72	Small Airplane	A-1815	Other	Restricted Category Airplanes - Airplanes Already Certificated Commuter	Per 14 CFR 23.3(e), An airplane cannot have both Commuter Category Certification and one or more of Normal, Utility, Acrobatic certification.

	Product Type	Issue ID#	Category	Subject	Description
73	Small Airplane	A-1816	Other	Significant Change - No Policy and Innovation Division Involvement	If the applicant is seeking to comply with an amendment earlier than that established on their date of application, then they must provide an argument per AC21.101-1A and this may be documented in their certification plan. The applicant's certification plan must be reviewed along with a determination on whether the applicant is complying with the latest regulations for the areas of change and if not, then they must provide an argument as to whether the level of safety is not materially improved or that compliance to the latest amendment is impractical. If a change is considered significant but with NO Policy and Innovation involvement, then the ACO should follow AC21.101-1A to ensure the process is followed. Please also see Part 23 Amendment 23-62 Errors corrections to see how to incorporate the challenges associated with the errors discovered in amendment 62 in dealing with amended TCs and new and amended STCs.
74	D&R UAS	D&R-1		D&R Unmanned Aircraft Airworthiness Criteria	Special class airworthiness criteria may need to be established. Certification Position Paper (CPP) No. CPP-D&R-1.1 provides acceptable proposed airworthiness criteria for certain unmanned aircraft that qualify to be certificated using the durability and reliability testing approach (D&R UAs). CPP No. CPP-D&R-1.1 is not applicable to all D&R VAs such as those with reciprocating engines. When applicable, applicants may use the CPP by referring to it in their project specific certification plan. A G-1 issue paper is needed if CPP No. CPP-D&R-1.1 is not applicable or if an applicable ror if an
75	D&R UAS	D&R-2		Means of Compliance with D&R Unmanned Airworthiness Criteria	Certification Position Paper (CPP) No. CPP-D&R-2.1 provides acceptable means of compliance (MOC) with the proposed airworthiness criteria in CPP-D&R-1.1 for certain D&R UAs. This MOC is not complete for UAs that conduct certain operations (e.g., operations into adverse weather conditions). If CPP No. CPP-D&R-2.1 is not applicable or an applicant proposes an alternate MOC, a G-2 MOC issue paper is needed.
76	D&R UAS	D&R-3		Operation in Adverse Weather Conditions	An issue paper may be needed to establish a method of compliance with D&R.130(c)(2) for operation in rain, snow or ice.
77	D&R UAS	D&R-4		Detect and Avoid Other Aircraft and Obstacles	An issue paper may be needed to establish a method of compliance with D&R.130(b)(5) for demonstrating the capability to detect and avoid other aircraft and obstacles.
78	D&R UAS	D&R-5		Environmental Certification Basis	A G-3 issue paper must establish the environmental certification basis (i.e., noise standards, and fuel venting and exhaust emissions standards).
79	D&R UAS	D&R-6		Noise Control Act of 1972	An N-1 issue paper may be created to request certain information from the applicant so the FAA can satisfy its statutory responsibility of a Noise Control Act (NCA) determination in accordance with the environmental provisions cited in Title 49 U.S.C. Section 44715 (Noise Control Act). This determination is required before issuing any original TC for an aircraft of any category except for experimental.