

| Orig. Office AIR-130 | Document Description: TSO-63e | AIR-130 Project Lead Lee Nguyen | Project Lead/Reviewer Michael Millage | Reviewing Office: ANM-108 | Date of Review: 3/22/2016 |
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| | Commenter | Section # and Page # | Comment | Suggested Change and Rationale | Disposition |
| 1. | Louise Wu | Section 4, page 4 | <p>Under marking requirement –</p> <p>b. Also, mark the following permanently and legibly, with at least the manufacturer’s name, subassembly part number, and the TSO number:</p> <p>(2) Each subassembly of the article that you determined may be interchangeable.</p> <p>The use of “you” may be easily misinterpreted by the PAH and FAA.</p> | <p>Revise (2) to read:</p> <p>(2) Each subassembly of the article the PAH determines may be interchangeable.</p> | <p>Not accepted.</p> <p>Used current TSO template, in plain English. Paragraph 1, Purpose, defines you as the applicant:</p> <p>“This technical standard order (TSO) is for manufacturers applying for a TSO authorization (TSOA) or letter of design approval (LODA). In it, we (the Federal Aviation Administration, (FAA)) tell you what minimum performance standards (MPS) your airborne weather radar equipment must first meet for approval and identification with the applicable TSO marking.”</p> |

| Orig. Office AIR-130 | Document Description: TSO-63e | AIR-130 Project Lead Lee Nguyen | Project Lead/Reviewer Tom Phan | Reviewing Office: ANM-100B | Date of Review: 3/25/2016 |
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| | Commenter | Section # and Page # | Comment | Suggested Change and Rationale | Disposition |
| 1. | Tom Phan | Section 5 Application Data Requirements, Page 4 | To meet the requirements as identified in section 3(b) Failure Condition Classifications. | Include system safety assessment (SSA) or functional hazard assessment (FHA) in the Application Data Requirements. | Not accepted. Current TSO template does not include system safety assessment (SSA) or functional hazard assessment (FHA) in the Application Data Requirements. SSA or FHA addresses system level safety assessment for the installation. Section 5, Application Data Requirements, addresses software and electronic hardware qualification. |
| 2. | Tom Phan | Section 5(a), Page 5 | Missing requirements for Equipment Class A, C, and D. | Add manual requirements for Equipment Class A, C, and D. | Not accepted. §§5(a)(1), (3) – (11) address manual requirements for Equipment Classes A, C, and D. |

| Orig. Office AIR-130 | Document Description: TSO-63e | AIR-130 Project Lead Lee Nguyen | Project Lead/Reviewer Vonnie Tong | Reviewing Office: ANM-130L | Date of Review: 3/25/2016 |
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| | Commenter | Section # and Page # | Comment | Suggested Change and Rationale | Disposition |
| 1. | Vonnie Tong | Section 3, Requirements Table 1, Page 2 | TSO-C63e introduces a new equipment class D and for equipment class C has modified MPS requirements that used RTCA/DO-220A. The previous TSO version C63d has three equipment classes (A-C), and for equipment class C has MPS requirements that used RTCA/DO-173. There would be a comparability issue if the same type of equipment class name has a different MPS requirement. | Add a denotation to clarify that the MPS requirements for equipment classes in Table 1 of TSO-C63e have changed and the deviation between the C63d and C63e version is not comparable. | Not accepted. Section 2 states TSO-C63e affects new applications submitted after its effective date. TSO-C63e also adds a new equipment class D (Atmospheric Threat Awareness Capability) as described in the referenced RTCA/DO-220A. The equipment classes and the associated MPS requirements in TSO-C63e are consistent with those in the referenced RTCA/DO-220A. There is no need to add the suggested clarification. |
| 2. | Vonnie Tong | Section 4.b.2, Page 3 | Based on the functionality defined in 3.a (3) is to “detect and display echoes”, the failure condition classification for 4.b (2) needs to be clarified for “missed detection of the function” condition. Does this mean providing misleading display information? | Clarify the failure condition for “missed detection of the function” when the functionality is defined as “detect and display echoes.” | Not accepted. §3.b (2) addresses unannounced malfunction or missed detection of the function defined in §3.a (3). Unannounced malfunction includes unannounced providing misleading display information. Missed detection of the function includes missed detection of the “detect and display precipitation echoes” function. |