



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

**Transport Airplane Directorate  
Los Angeles Aircraft  
Certification Office**

3960 Paramount Boulevard  
Lakewood, California 90712-4137

**MAY 28 2010**

Chelton Avionics, Incorporated  
d/b/a Wulfsberg Electronics Division  
6400 Wilkinson Drive  
Prescott, Arizona 86301

Dear Mr. Buehring:

Re-Issuance of Technical Standard Order (TSO) Authorizations  
From NAT Seattle, Inc., to Chelton Avionics, Inc.

This is reply to your letter of May 18, 2010 requesting for reissuance of Technical Standard Order (TSO) authorizations held by NAT Seattle Inc., to Chelton Avionics, Inc., doing business as Wulfsberg Electronics Division per FAA Exemption Number 10054. Based upon our re-issuance review, we've found it acceptable to accommodate the change in names and the relocation of design and manufacturing to the following address:

Chelton Avionics, Incorporated  
d/b/a Wulfsberg Electronics Division  
6400 Wilkinson Drive  
Prescott, Arizona 86301

The labeling of the parts has been changed to reflect the company name change and the new manufacturing address. Your Quality Management System Manual, Revision 850-142359, Revision B, dated June 23, 2009, or a later Federal Aviation Administration approved version, is considered adequate and is on file at the Phoenix Manufacturing Inspection District Office in Scottsdale, Arizona.

TSO	Wulfsberg Model (same as the NAT-Seattle)	Wulfsberg Part No. (same as the NAT-Seattle)	Description
C-50c	213	213-(XXX)	TSO Approval Identification
C-50c	213	213	Microphone Amp
C-50	213	213-001	Microphone Amp
C-50c	218	218-(XXX)	TSO Approval Identification

			Identification
C-50c	218	218	Amplifier
C-50c	218	218-001	Amplifier
C-50c	218	218-002	Amplifier
C-50c	219	219-(XXX)	TSO Approval Identification
C-50c	219	219	Interphone Amplifier
C-50c	263	263-(XXX)	TSO Approval Identification
C-50c	263	263	Microphone Amplifier
C-50c	263	263-000	Microphone Amplifier
C-50c	263	263-001	Microphone Amplifier
C123b & C139	265	265-(XXX)	TSO Approval Identification
C123b & C139	265	265-000	CVR Area Microphone Preamplifier
C123b & C139	265	265-001	CVR Area Microphone Preamplifier
C123b & C139	265	265-002	CVR Area Microphone Preamplifier
C123b & C139	265	265-003	CVR Area Microphone Preamplifier
C123b & C139	265	265-004	CVR Area Microphone Preamplifier
C-50c	311	311-(XXX)	TSO Approval Identification
C-50c	311	311-000	Audio Selector Panel
C-50c	311	311-001	Audio Selector Panel
C-50c	311	311-002	Audio Selector Panel
C-50c	311	311-003	Audio Selector Panel
C-50c	311	311-004	Audio Selector Panel
C-50c	343	343-(XXX)	TSO Approval Identification
C-50c	343	343	Audio Selector Panel
C-50c	343	343-000	Audio Selector Panel
C-50c	343	343-001	Audio Selector Panel
C-50c	352	352-(XXX)	TSO Approval Identification
C-50c	352	352	Audio Selector Panel
C-50c	352	352-001	Audio Selector Panel

C-50c	352	352-002	Audio Selector Panel
C-50c	352	352-003	Audio Selector Panel
C-50c	352	352-004	Audio Selector Panel
C-50c	352	352-005	Audio Selector Panel
C-50c	352	352-006	Audio Selector Panel
C-50c	352	352-007	Audio Selector Panel
C-50c	352	352-008	Audio Selector Panel
C-50c	352	352-009	Audio Selector Panel
C-50c	352	352-010	Audio Selector Panel
C-50c	375	375-(XXX)	TSO Approval Identification
C-50c	375	375-001	Audio Selector Panel
C-50c	375	375-002	Audio Selector Panel
C-50c	375	375-003	Audio Selector Panel
C-50c	375	375-004	Audio Selector Panel
C-50c	375	375-005	Audio Selector Panel
C-50c	375	375-006	Audio Selector Panel
C-50c	375	375-007	Audio Selector Panel
C-50c	375	375-008	Audio Selector Panel
C-50c	375	375-010	Audio Selector Panel
C-50c	375	375-011	Audio Selector Panel
C-50c	375	375-017	Audio Selector Panel
C-50c	375	375-018	Audio Selector Panel
C-50c	380	380-(XXX)	TSO Approval Identification
C-50c	380	380-001	Audio Selector Panel
C-50c	380	380-004	Audio Selector Panel
C-50c	380	380-005	Audio Selector Panel
C-50c	380	380-006	Audio Selector Panel
C-50c	380	380-007	Audio Selector Panel
C-50c	380	380-008	Audio Selector Panel
C-50c	380	380-009	Audio Selector Panel
C-50c	380	380-010	Audio Selector Panel
C-50c	380	380-011	Audio Selector Panel
C-50c	380	380-012	Audio Selector Panel
C-50c	380	380-013	Audio Selector Panel
C-50c	380	380-014	Audio Selector Panel
C-50c	380	380-015	Audio Selector Panel
C-50c	380	380-016	Audio Selector Panel
C-50c	380	380-017	Audio Selector Panel
C-50c	380	380-018	Audio Selector Panel
C-50c	380	380-020	Audio Selector Panel
C-50c	380	380-021	Audio Selector Panel
C-50c	380	380-022	Audio Selector Panel
C-50c	380	380-025	Audio Selector Panel

C-50c	380	380-027	Audio Selector Panel
C-50c	380	380-028	Audio Selector Panel
C-50c	380	380-029	Audio Selector Panel
C-50c	380	380-030	Audio Selector Panel
C-50c	380	380-031	Audio Selector Panel
C-50c	380	380-032	Audio Selector Panel
C-50c	380	380-033	Audio Selector Panel
C-50c	380	380-034	Audio Selector Panel
C-50c	380	380-035	Audio Selector Panel
C-50c	380	380-036	Audio Selector Panel
C-50c	380	380-037	Audio Selector Panel
C-50c	380	380-038	Audio Selector Panel
C-50c	380	380-039	Audio Selector Panel
C-50c	380	380-040	Audio Selector Panel
C-50c	380	380-041	Audio Selector Panel
C-50c	380	380-042	Audio Selector Panel
C-50c	380	380-043	Audio Selector Panel
C-50c	380	380-045	Audio Selector Panel
C-50c	380	380-046	Audio Selector Panel
C-50c	380	380-047	Audio Selector Panel
C-50c	380	380-048	Audio Selector Panel
C-50c	380	380-049	Audio Selector Panel
C-50c	380	380-050	Audio Selector Panel
C-50c	380	380-051	Audio Selector Panel
C-50c	380	380-052	Audio Selector Panel
C-50c	380	380-053	Audio Selector Panel
C-50c	400	400-(XXX)	TSO Approval Identification
C-50c	400	400	Audio Control Amplifier
C-50c	417	417-(XXX)	TSO Approval Identification
C-50c	417	417	Audio Control Amplifier
C-50c	417	417-001	Audio Control Amplifier
C-50c	418	418-(XXX)	TSO Approval Identification
C-50c	418	418	Audio Control Amplifier
C-50c	418	418-001	Audio Control Amplifier
C-50c	418	418-002	Audio Control Amplifier
C-50c	418	418-003	Audio Control

			Amplifier
C-50c	418	418-004	Audio Control Amplifier
C-50c	418	418-006	Audio Control Amplifier
C-50c	419	419-(XXX)	TSO Approval Identification
C-50c	419	419	Audio Control Amplifier
C-50c	438	438-(XXX)	TSO Approval Identification
C-50c	438	438	Audio Control Amplifier
C-50c	438	438-001	Audio Control Amplifier
C-50c	438	438-002	Audio Control Amplifier
C-50c	438	438-003	Audio Control Amplifier
C-50c	438	438-004	Audio Control Amplifier
C-50c	438	438-005	Audio Control Amplifier
C-50c	438	438-006	Audio Control Amplifier
C-50c	438	438-007	Audio Control Amplifier
C-50c	438	438-008	Audio Control Amplifier
C-50c	443	443-(XXX)	TSO Approval Identification
C-50c	443	443	Audio Control Amplifier
C-50c	443	443-001	Audio Control Amplifier
C-50c	455	455-(XXX)	TSO Approval Identification
C-50c	455	455	Audio Control Amplifier
C-50c	455	455-001	Audio Control Amplifier
C-50c	455	455-002	Audio Control Amplifier
C-50c	555	555-(XXX)	TSO Approval Identification
C-50c	555	555	Audio Selector Panel

C-50c	555	555-001	Audio Selector Panel
C-50c	555	555-002	Audio Selector Panel
C-50c	555	555-003	Audio Selector Panel
C-50c	555	555-004	Audio Selector Panel
C-50c	555	555-005	Audio Selector Panel
C-50c	555	555-006	Audio Selector Panel
C-50c	555	555-007	Audio Selector Panel
C-50c	555	555-008	Audio Selector Panel
C-50c	555	555-009	Audio Selector Panel
C-50c	555	555-010	Audio Selector Panel
C-50c	611	611-(XXX)	TSO Approval Identification
C-50c	611	611	Aural Warning Generator
C-50c	611	611-001	Aural Warning Generator
C-50c	611	611-002	Aural Warning Generator
C-50c	611	611-003	Aural Warning Generator
C-50c	611	611-004	Aural Warning Generator
C-50c	611	611-005	Aural Warning Generator
C-50c	611	611-006	Aural Warning Generator
C-50c	611	611-008	Aural Warning Generator
C-50c	611	611-009	Aural Warning Generator
C-50c	611	611-010	Aural Warning Generator
C-50c	611	611-011	Aural Warning Generator
C-50c	611	611-012	Aural Warning Generator
C-50c	611	611-013	Aural Warning Generator
C-50c	611	611-014	Aural Warning Generator
C-50c	611	611-015	Aural Warning Generator
C-50c	611	611-016	Aural Warning Generator
C-50c	611	611-017	Aural Warning

			Generator
C-50c	611	611-018	Aural Warning Generator
C-50c	611	611-019	Aural Warning Generator
C-50c	611	611-020	Aural Warning Generator
C-50c	611	611-021	Aural Warning Generator
C-50c	611	611-022	Aural Warning Generator
C-50c	611	611-023	Aural Warning Generator
C-50c	611	611-024	Aural Warning Generator
C-50c	611	611-025	Aural Warning Generator
C-50c	611	611-026	Aural Warning Generator
C-50c	611	611-027	Aural Warning Generator
C-50c	611	611-028	Aural Warning Generator
C-50c	611	611-030	Aural Warning Generator
C-50c	630	630-(XXX)	TSO Approval Identification
C-50c	630	630	Aural Warning Generator
C-50c	630	630-001	Aural Warning Generator
C-50c	630	630-002	Aural Warning Generator
C-50c	630	630-003	Aural Warning Generator
C-50c	630	630-004	Aural Warning Generator
C-50c	630	630-005	Aural Warning Generator
C-50c	630	630-006	Aural Warning Generator
C-50c	630	630-007	Aural Warning Generator
C-50c	630	630-008	Aural Warning Generator
C-50c	630	630-009	Aural Warning

			Generator
C-50c	700	700-(XXX)	TSO Approval Identification
C-50c	700	700	Digital Audio Control Amp
C-50c	700	700-002	Digital Audio Control Amp
C-50c	700	700-003	Digital Audio Control Amp
C-50c	700	700-004	Digital Audio Control Amp
C-50c	700	700-005	Digital Audio Control Amp
C-50c	700	700-006	Digital Audio Control Amp
C-50c	700	700-007	Digital Audio Control Amp
C-50c	700	700-008	Digital Audio Control Amp
C-50c	700	700-009	Digital Audio Control Amp
C-50c	803	803-(XXX)	TSO Approval Identification
C-50c	803	803	Switch Panel
C-50c	803	803-002	Switch Panel
C-50c	803	803-003	Switch Panel
C-50c	803	803-004	Switch Panel
C-50c	803	803-005	Switch Panel
C-50c	803	803-006	Switch Panel
C-50c	803	803-007	Switch Panel
C-50c	803	803-008	Switch Panel
C-50c	803	803-009	Switch Panel
C-50c	803	803-010	Switch Panel
C-50c	803	803-011	Switch Panel
C-50c	803	803-012	Switch Panel
C-50c	803	803-013	Switch Panel
C-50c	803	803-014	Switch Panel
C-50c	803	803-015	Switch Panel
C-50c	804	804-(XXX)	TSO Approval Identification
C-50c	804	804-000	Switch Panel
C-50c	804	804-001	Switch Panel
C-50c	804	804-002	Switch Panel
C-50c	804	804-003	Switch Panel
C-50c	804	804-004	Switch Panel



C-50c	804	804-005	Switch Panel
C-50c	804	804-006	Switch Panel
C-50c	804	804-007	Switch Panel
C-50c	804	804-008	Switch Panel
C-50c	804	804-009	Switch Panel
C-50c	804	804-010	Switch Panel
C-50c	804	804-011	Switch Panel
C-50c	804	804-012	Switch Panel
C-50c	804	804-013	Switch Panel
C-50c	804	804-014	Switch Panel
C-50c	804	804-015	Switch Panel
C-50c	804	804-016	Switch Panel
C-50c	804	804-017	Switch Panel
C-50c	804	804-019	Switch Panel
C-50c	804	804-020	Switch Panel
C-50c	804	804-021	Switch Panel
C-50c	804	804-025	Switch Panel
C-50c	805	805-(XXX)	TSO Approval Identification
C-50c	805	805-000	Switch Panel
C-50c	805	805-001	Switch Panel
C-50c	805	805-002	Switch Panel
C-50c	805	805-003	Switch Panel
C-50c	805	805-004	Switch Panel
C-50c	805	805-005	Switch Panel
C-50c	805	805-006	Switch Panel
C-50c	805	805-007	Switch Panel
C-50c	805	805-008	Switch Panel
C-50c	805	805-009	Switch Panel
C-50c	805	805-010	Switch Panel
C-50c	805	805-011	Switch Panel
C-50c	805	805-012	Switch Panel
C-50c	805	805-013	Switch Panel
C-50c	805	805-014	Switch Panel
C-50c	805	805-015	Switch Panel
C-50c	805	805-016	Switch Panel
C-50c	805	805-017	Switch Panel
C-50c	805	805-019	Switch Panel
C-50c	805	805-020	Switch Panel
C-50c	805	805-021	Switch Panel
C-139	808	808-(XXX)	TSO Approval Identification
C139	808	808-000	Switch Panel
C139	808	808-001	Switch Panel
C139	808	808-002	Switch Panel

C139	808	808-003	Switch Panel
C-139	809	809-(XXX)	TSO Approval Identification
C139	809	809-000	Switch Panel
C139	809	809-001	Switch Panel
C139	809	809-002	Switch Panel
C139	809	809-003	Switch Panel
C-139	4420	4420-(XXX)	TSO Approval Identification
C139	4420	4420-000	Audio Management Unit
C-139	5520	5520-(XXX)	TSO Approval Identification
C139	5520	5520-001	Audio Management Unit
C139	5520	5520-002	Audio Selector Panel
C139	5520	5520-003	Audio Selector Panel
C139	5520	5520-004	Audio Selector Panel

Effective this date of this letter, you are authorized to use TSO procedures as prescribed by Subpart O of Federal Aviation Regulations (FAR) part 21 and to identify those parts listed above with the applicable TSO markings as required by their respective TSO. This office must be notified of any design or manufacturing changes to the parts listed above as outlined in FAR §21.611(a), with minor change submittal intervals not to exceed six months.

As a recipient of this authorization, you are required to report any failure, malfunction, or defect relating to this authorization in accordance with the provisions of § 21.3. The report should be communicated initially by telephone to the Supervisor, Technical and Administrative Support Staff, ANM-103L, (562) 627-5300, within 24 hours after it has been determined the failure has occurred and followed up with a written notice. FAA Form 8010-4 (Malfunction or Defect Report) or other appropriate format is acceptable in transmitting the required details.

This authorization is not transferable to another person or location and is effective until surrendered, withdrawn, or otherwise terminated by the Administrator. This authorization pertains only to manufacturing operations at the above address. This office must be notified at least 30 days in advance of any proposed facility relocation to preclude interruption while awaiting quality control approval of that facility. As required by § 21.613(b), you must also notify the Federal Aviation Administration (FAA) when you no longer manufacture a TSO approved article.

Please note that technical data retained by the FAA may be subject to Freedom of Information Act (FOIA) request. As such, this office will notify you of all such request pertaining to your data and afford you the opportunity to defend the release of the data.

If you have any questions regarding this authorization, please contact Mr. Ted Ebina, Project Manager, by telephone at (562) 627-5327, by e-mail at [ted.ebina@faa.gov](mailto:ted.ebina@faa.gov), or by fax at (562) 627-5210.

Sincerely,



*feh* Haifa Haj-Eid  
Supervisor, Technical and Administrative  
Support Staff