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22 July 2014

Ms. Annette Allender  
Federal Aviation Administration  
Spectrum Engineering Services, AJW-1C  
800 Independence Avenue, S.W.  
Room 507  
Washington, D.C. 20591

202.267.3893

Subject: Notification of FCC Equipment Certification Application for ACSS NXT Transponder part numbers 9006000-55000 (Model NXT-600), and 9008000-10000 and 9008000-55000 (Models NXT-800).

FCC ID #: 2ACTZNXTXPONDER

ACSS FRN: 0004999231

Dear Ms. Allender,

In accordance with FCC Rules and Regulations, CFR Title 47, Part 87, Subpart D, Paragraph 87.147(d), Paragraph 87.147(d)(1), and Paragraph 87.147(d)(3), notification is hereby given from ACSS to file for FCC Equipment Certification for the ACSS NXT Transponder part numbers 9006000-55000 (Model NXT-600), and 9008000-10000 and 9008000-55000 (Models NXT-800).

The NXT Transponders have FAA TSO Authorization for the following TSOs:

- TSO-C112d - Air Traffic Control Radar Beacon System/Mode Select Airborne Equipment
- TSO-C166b - Extended Squitter Automatic Dependent Surveillance–Broadcast (ADS-B) and Traffic Information Service – Broadcast (TIS-B) Equipment Operating on the Radio Frequency of 1090 Megahertz

The equipment is an ATRCBS Mode S Airborne Transponder with a rated power of 500 watts. The emission type is 18MOP1D and has a frequency range of 1090 MHz  $\pm$  1 MHz. Additional detailed characteristic information is included in the documentation on the enclosed CD that supports this Notification. The enclosed CD is labeled 'ACSS NXT Transponder FCC Documentation', and its contents are as listed in ATTACHMENT A.

If you have any questions or concerns or feel additional documentation is necessary, please contact me by one of the methods below.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Philip D. Heinicke', is written over a horizontal line.

Philip D. Heinicke  
Technical Staff Engineer  
FAA DER

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# ATTACHMENT A

## Included Support Documentation

1. NXT FCC Compliance Plan and Results, ACSS Drawing 8010021-001, Rev -.
2. NXT Transponder Acceptance Test Procedures (ATP), ACSS Drawing No. 8010114-001 Rev C.
3. NXT-600 Transponder End Item Test (EIT) Test Requirements Document (TRD), ACSS Drawing No. 8010118-001, Rev E.
4. NXT-800 Transponder End Item Test (EIT) Test Requirements Document (TRD), ACSS Drawing No. 8010008-001, Rev D.
5. NXT-600 End Item Assembly Drawing, ACSS Drawing No. 9006000-55000, Rev A.
6. NXT-800 End Item Assembly Drawing, ACSS Drawing No. 9008000-10000, Rev A.
7. NXT-800 End Item Assembly Drawing, ACSS Drawing No. 9008000-55000, Rev A.
8. Assembly, Hardware – NXT-600, ACSS Drawing No. 9006000-55, Rev A
9. Parts List, Assembly, Hardware – NXT-600, ACSS Drawing No. PL9006000-55, Rev A
10. Assembly, Hardware – NXT-800, ACSS Drawing No. 9008000-10, Rev A.
11. Parts List, Assembly, Hardware – NXT-800, ACSS Drawing No. PL9008000-10, Rev A.
12. Assembly, Hardware – NXT-800, ACSS Drawing No. 9008000-55, Rev -.
13. Parts List, Assembly, Hardware – NXT-800, ACSS Drawing No. PL9008000-55, Rev -.
14. Circuit Card Assembly – NXT-600 Interconnect, A1, ACSS Drawing No. 9006010-001, Rev A.
15. Circuit Card Assembly – NXT-800 Interconnect, A1, ACSS Drawing No. 9008010-001, Rev A.
16. Circuit Card Assembly - Processor NXT (A2), ACSS Drawing No. 9008020-001, Rev B.
17. Circuit Card Assembly - Power Supply NXT (A4), ACSS Drawing No. 9008030-001, Rev D.
18. Circuit Card Assembly – TXRX NXT (A3), ACSS Drawing No. 9008040-001, Rev E.
19. Outline and Installation NXT-600, ACSS Drawing No. 9006001-001, Rev A.
20. NXT-800 Outline and Installation, ACSS Drawing No. 9008001-001, Rev -.
21. NXT-800, 28 VDC Outline and Installation, ACSS Drawing No. 9008001-002, Rev -.
22. System Description and Installation Manual NXT-600 Mode S/ADS-B Transponder/Part No. 9006000, Pub. No. 8600600-001, Rev 001.
23. System Description and Installation Manual NXT-800 Mode S/ADS-B Transponder/Part No. 9006000, Pub. No. 8600800-001, Rev -.
24. NXT-600 Data Link Transponder Label, ACSS Drawing No. 9006002 Rev B.
25. NXT-800 Data Link Transponder Label, ACSS Drawing No. 9008002 Rev -.
26. Copy of FAA TSO Authorization for NXT Release 1 Transponder, dated APR 17 2014
27. Copy of FAA TSOA concurrence letter for NXT Release 1.1 Transponder, FAA dated 6/19/14.