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14 August 2014

Mr. Andy Leimer
Federal Communications Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, Maryland 21046

Subject: Application for FCC Certification 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 Mr. Leimer:

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).

Included with this request is the NXT FCC Compliance Plan and Results and additional documentation which includes photographs, technical circuitry descriptions with block and schematic diagrams, and user/installation instructions.

A letter of "Intent to File for FCC Certification" for the NXT Transponder was sent to the Federal Aviation Administration Spectrum Office, a copy of which is included with this application as required by CFR Title 47, Part 87, Paragraph 87.147(d3). A copy of their favorable reply to you, dated AUG 5 2014, is also included with this application.

The documentation to support this Application is included on the attached CD, labeled 'ACSS NXT FCC Documentation'. The documentation is as listed in ATTACHMENT A.

Your favorable consideration of this application will be appreciated.

Sincerely,

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

Philip D. Heinicke
Technical Staff Engineer
FAA DER

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ATTACHMENT A

Included Support Documentation (CD)

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.

ATTACHMENT A (cont)

Included Support Documentation (CD)

28. Copy of ACSS' letter of 'Intent to Apply for FCC Certification' to the FAA Spectrum office, dated 22 July 2014
29. Copy of FAA Spectrum Offices letter to the FCC, dated AUG 5 2014.
30. Copy of ACSS' letter to the FCC for Application for FCC Certification (this letter), dated 14 August 2014