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FCC CFR 74 D Test Report

APPLICANT	STANDARD COMMUNICATIONS PTY.LTD.		
ADDRESS	17 GIBBON		
ADDRESS	WINSTON HILLS 2153 AUSTRALIA		
FCC ID	TXJCM60U25		
MODEL NUMBER	CM60-U25B, CM60-U25D, CM60-U25L, CM60-U25P, CM60-U25R, CM60-U25S		
PRODUCT DESCRIPTION	UHF MOBILE TRANSCEIVER		
DATE SAMPLE RECEIVED	4/9/2018		
FINAL TEST DATE	4/16/2018		
TESTED BY	Franklin Rose		
APPROVED BY	Tim Royer		
TEST RESULTS	□ PASS □ FAIL		

Report Number	Report Version	Description	Issue Date
492BUT18 PT74_TestReport_	Rev1	Initial Issue	04/30/2018
492BUT18 PT74_TestReport_	Rev2	Clerical Update	05/25/2018
492BUT18 PT74_TestReport_	Rev3	Updated Model Numbers and Emission Designator	11/06/2018
492BUT18 PT74_TestReport_	Rev4	Updated Address	12/28/2018

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.



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GENERAL REMARKS

Summary

The device under test does:

Fulfill the general approval requirements as identified in this test report and was selected by the customer.

Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #: US1070

Tested by:



Name and Title Franklin Rose, Project Manager / EMC Testing Technician 04/26/2018

Reviewed and Approved by:



Name and Title Tim Royer, Project Manager / EMC Testing Engineer

Date 04/26/2018

Applicant: STANDARD COMMUNICATIONS PTY.LTD.

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GENERAL INFORMATION

EUT Specification

EUT Description	VHF TRANSCEIVER		
•			
FCC ID	TXJCM60U25		
Model Number	CM60-U25B, CM60-U25D, CM60-U25L, CM60-U25P, CM60- U25R, CM60-U25S		
Operating Frequency	Band 1: 450 – 454 MHz		
	11K2F3E (Narrowband Analog FM Voice),		
Type of Emission	8K10F1E (P25 Phase I C4FM Voice),		
	8K10F1D (P25 Phase I C4FM Data)		
Modulation	FM		
	☐ 110-120Vac/50- 60Hz		
EUT Power Source	☑ DC Power (13.8 V)		
	☐ Battery Operated Exclusively		
	☐ Prototype		
Test Item	□ Pre-Production		
	☐ Production		
	Fixed		
Type of Equipment	⊠ Mobile		
	☐ Portable		
Antenna Connector	BNC		
Test Conditions	The temperature was 26°C		
Test conditions	Relative humidity of 50%.		
Modification to the EUT	No Modification to EUT.		
Test Exercise	The EUT was placed in continuous transmit and was operated in "Test Mode" for digital emissions tests.		
Applicable Standards	ANSI/TIA 603-E:2016, ANSI C63.26, FCC CFR 47 Part 2, Part 74, Part 90		
Test Facility	Timco Engineering Inc. at 849 NW State Road 45 Newberry, FL 32669 USA. Designation #: US1070		

Applicant: STANDARD COMMUNICATIONS PTY.LTD. <u>Table of Contents</u>

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RESULTS SUMMARY

Rule Part No.	Test Item	Results
74.451(a)	Part 90 Testing & Certification	PASS
74.451(a), 74.461(b)	Power Output	PASS

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Part 90 Testing & Certification

FCC Rule Parts: FCC Part 74.451(a)

(a) Applications for new remote pickup broadcast stations or systems or for changing transmitting equipment of an existing station will not be accepted unless the transmitters to be used have been certificated by the FCC pursuant to the provisions of this subpart, or have been certificated for licensing under part 90 of this chapter and do not exceed the output power limits specified in §74.461(b).

The following test results from FCC CFR 47, Part 90 test report "492AUT18 PT90_TestReport_Rev3" are shown below, for reference:

Rule Part No.	Test Item	Results
2.1046(a), 90.205(h),(i)	RF Power Output	PASS
2.1033(c)(4), 90.209(b)(5)	Modulation Characteristics	PASS
2.1047(a)	Audio Frequency Response and Low Filter	PASS
2.1047(b)	Modulation Limiting	PASS
2.1049 (c)	Occupied Bandwidth	PASS
90.210(d)(1), (2)	Emission Masks	PASS
2.1051(a), 90.210(d)(3)	Spurious Emissions at Antenna Terminals	PASS
2.1053(a), 90.210(d)(3)	Field Strength of Spurious Emissions	PASS
2.1055(a)(2), 90.213	Frequency Stability < 5 ppm	PASS
90.214	Transient Frequency Response	PASS

Result: Meets Requirements

Applicant: STANDARD COMMUNICATIONS PTY.LTD.

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RF POWER OUTPUT

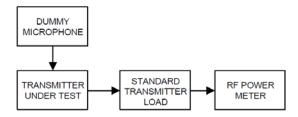
FCC Rule Parts: FCC Part 74.461(b)

(b) The authorized transmitter power for a remote pickup broadcast station shall be limited to that necessary for satisfactory service and, in any event, shall not be greater than 100 watts, except that a station to be operated aboard an aircraft shall normally be limited to a maximum authorized power of 15 watts. Specific authorization to operate stations on board aircraft with an output power exceeding 15 watts will be issued only upon an adequate engineering showing of need, and of the procedures that will be taken to avoid harmful interference to other licensees.

Note: Per 74.461(b), under no circumstance shall the EUT operate aboard an aircraft above the power output level of 15 Watts.

The following test data from FCC CFR 47, Part 90 test report "492AUT18 PT90_TestReport_Rev3" is shown below, for reference:

Method of Measurement: TIA-603-E, 2.2.1



Test Data: Power Measurement Table

Peak Power Output					
dBm			Watts		
High	Med	Low	High	Med	Low
43.96	39.98	29.99	24.89	9.95	1.00

Result: Meets Requirements

Applicant: STANDARD COMMUNICATIONS PTY.LTD.

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