

Exhibit B
Viacom International Inc.
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Modification of License
September 2016

Radiation Hazard Analysis

DOCUMENT HISTORY

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1	RESULTS SUBMITTAL	8/30/16	Gerard Johnston


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ENGINEER Ken Wieland	DATE 8/30/16	
APPROVED Ken Wieland	DATE 8/30/16	TITLE Test Procedure/Results – Viacom Radiation Analysis – ANT 1
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THIS DOCUMENT, OR PARTS THEREOF MAY NOT BE USED OR REPRODUCED IN ANY FORM, BY ANY METHOD, WITHOUT THE WRITTEN AUTHORIZATION OF GLOBECOMM SYSTEMS, INC.		CAGE CODE 02MQ7
		DWG NO. 11081-04103
		REV 1
SCALE: NONE		SHEET: 1 OF 7

TABLE OF CONTENTS

SECTION	DESCRIPTION	PAGE
---------	-------------	------

Table of Contents

1.	GENERAL	3
1.1	SCOPE	3
1.2	PURPOSE	3
1.3	CONDITIONS OF TEST	3
1.3.1	<i>General</i>	3
1.3.2	<i>Test Methods</i>	3
1.3.3	<i>Environmental</i>	4
1.3.4	<i>Equipment Calibration</i>	4
2.	APPLICABLE DOCUMENTS.....	5
2.1	RADIATION HAZARD TEST	6
2.1.1	<i>Purpose</i>	6
2.1.2	<i>Specification</i>	6
2.1.3	<i>Test Equipment</i>	6
2.1.4	<i>Procedure</i>	6

CAGE CODE	DRAWING NO.	REV.
02MQ7	11081-04103	1
SIZE A	SCALE NONE	SHEET 2 OF 7

1. GENERAL

1.1 Scope

This document establishes the test procedures and documents the results for the onsite RF radiation hazard testing provided by Globecomm Systems Inc. (Globecomm).

1.2 Purpose

This document is submitted as required in accordance with the requirements of the contract, and testing was implemented to record measured data by the Globecomm engineering team.

1.3 Conditions of Test

1.3.1 General

The tests described herein are designed for testing of ground segment systems on-site at Viacom earth station facility. Antenna systems to be tested for RF radiation should be RF transmitting at nominal levels consistent with the FCC license assigned to such terminal.

1.3.2 Test Methods

The test methods prescribed in this procedure shall be mandatory in the conductance of the test, except for those cases in which special conditions existing at the time of test dictate certain modifications or changes. In such cases, full documentation of the conditions and the nature of the changes shall be provided and recorded on the test data sheets.

CAGE CODE 02MQ7	DRAWING NO. 11081-04103	REV. 1
SIZE A	SCALE NONE	SHEET 3 OF 7

2. APPLICABLE DOCUMENTS

The following documents of the specified or current applicable issue apply to the extent as specified herein.

Globecomm Documents

11081-01000 System Block Diagram
11081-04103 Test Procedure/Results

Reference Documents

Bulletin No. 65 FCC Office of Engineering and Technology (latest version)
ANSI Applicable ANSI regulations as required for Viacom
SSOG210 Intelsat Antenna Verification Tests
25.209 FCC Standard for ground segment antennas

Manufacturer Documents

Narda RF Survey Meter, NAR/NBM-520:A

CAGE CODE 02MQ7	DRAWING NO. 11081-04103	REV. 1
SIZE A	SCALE NONE	SHEET 5 OF 7

2.1 Radiation Hazard Test

2.1.1 Purpose

This procedure outlines the steps to ensure that measured RF radiation does not exceed specified levels.

2.1.2 Specification

+5mW/cm² per FCC Office of Engineering and Technology Bulletin No. 65, 1997.

2.1.3 Test Equipment

The following test equipment, or equivalent, is required to perform the tests described herein.

Radiation Monitor and Probe, Narda Model NAR/NBM-520:A

2.1.4 Procedure

This section outlines the proper step-by-step test procedure. Verify or record each step that is indicated on the Test Data Sheet.

1. Before starting, insure that the test equipment is calibrated and is set to measure the appropriate radiation levels expected. Refer to the Narda Operation Manual.
2. Test in conjunction with the Viacom operations team. With the antenna pointed on the spacecraft, confirm all applicable carriers are operating through the uplink paths at nominal operating levels.
3. Take measurements at the specified locations indicated on the Test Data Sheet. All measurements must be less than the specification listed agreed to with Viacom based on their FCC licenses and safety levels in a controlled environment.
4. Report immediately and levels that exceed the requirements of the Test Plan, turn off the transmitters to verify that the source is external to the earth station.

Note: Charge Radiation Monitor's battery for 8-12hrs prior to testing.


CAGE CODE	DRAWING NO.	REV.
02MQ7	11081-04103	1
SIZE A	SCALE NONE	SHEET 6 OF 7

Test Data Sheet – Record highest value read (all values in mW/cm^2).

<u>Measurement Location</u>	<u>Ant1</u> 11M, SA8016B		
<u>30' behind antenna</u>	0.008		
<u>Each corner of Antenna Pad</u>	.010	.010	
	.009	.008	
<u>On antenna Hub Platform</u>	0.012		
<u>Outside Rear Antenna Hub</u> (approx. 3' from feed flange)	0.013		
<u>Bottom rear (beneath) reflector</u> (6' high, 6' back from edge)	0.012		
<u>30' in front of reflector (6'high)</u>	0.020		

Comments:

- 1) Pass / Fail (circle one)
- 2) Comments/Observations (record here): Conclusion: Based on the above analysis, it is concluded that harmful levels of radiation will not exist in regions normally occupied by the public or the earth station's operating personnel.

Test Performed By: 
 Date: 8/30/16

CAGE CODE 02MQ7		DRAWING NO. 11081-04103	REV. 1
SIZE A	SCALE NONE		SHEET 7 OF 7