Flom Test Labs
EMI, EMC, RF Testing Experts Since 1963
toll-free: (866) 311-3268
fax: (480) 926-3598
http://www.flomlabs.com
info@flomlabs.com

Date of Report: February 27, 2006
Date of Submission: March 10, 2006

Federal Communications Commission
Via Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Moultrie Feeders
Equipment: Feeder Activator
FCC ID: T2VMFH-ACT
FCC Rules: 15.231, Confidentiality

Gentlemen:

On behalf of the Applicant, enclosed please find Application Form 731, Engineering Test Report and all pertinent documentation, the whole for approval of the referenced equipment as shown.

Filing fees are attached.

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

Sincerely yours,

David E. Lee, FCC/IC Compliance Manager

enclosure(s)
cc: Applicant
DEL/del

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Transmitter Certification

of

FCC ID: T2VMFH-ACT
Model: CHICKEN FEEDER

to

Federal Communications Commission

Rule Part 15.231, Confidentiality

Date of report: February 27, 2006

On the Behalf of the Applicant:

Moultrie Feeders

At the Request of:

Ulvation, LLC.
3134 New London Road
Hamilton, OH 45013

Attention of: Daniel Ulrich
513-708-4885
Email: ulrichd@ulvation.com

Supervised by: David E. Lee, Compliance Test Manager

List of Exhibits

(FCC **Certification** (Transmitters) - Revised 9/28/98)

Applicant: Moultrie Feeders

FCC ID: T2VMFH-ACT

By Applicant:

1. Letter of Authorization

2. Confidentiality Request: 0.457 And 0.459

3. Identification Drawings, 2.1033(c)(11)
   - Label
   - Location of Label
   - Compliance Statement
   - Location of Compliance Statement

4. Photographs, 2.1033(c)(12)

5. Documentation: 2.1033(c)
   - (3) User Manual
   - (10) Schematic Diagram
   - (10) Theory of Operation
   - Block Diagram
   - Active Devices

By M.F.A. Inc.:

A. Testimonial & Statement of Certification

The applicant has been cautioned as to the following:

15.21 Information to User.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) Special Accessories.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

Table Of Contents

Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a)	**Test Report**
b) Laboratory: (FCC: 31040/SIT) (Canada: IC 2044)	M. Flom Associates, Inc. 3356 N. San Marcos Place, Suite 107 Chandler, AZ 85225
c) Report Number:	d0620041
d) Client:	Ulvation, LLC. 3134 New London Road Hamilton, OH 45013
e) Identification: Description:	FCC ID: T2VMFH-ACT Feeder Activator
f) EUT Condition:	Not required unless specified in individual tests.
g) Report Date: EUT Received:	February 27, 2006 February 21, 2006
h, j, k):	As indicated in individual tests.
i) Sampling method:	No sampling procedure used.
l) Uncertainty:	In accordance with MFA internal quality manual.
m) Supervised by:	 David E. Lee, FCC Compliance Manager
n) Results:	The results presented in this report relate only to the item tested.
o) Reproduction:	This report must not be reproduced, except in full, without written permission from this laboratory.

List Of General Information Required For Certification

In Accordance With FCC Rules And Regulations,
Volume II, Part 2 and to 15.231

Sub-part 2.1033

(c)(1): **Name and Address of Applicant**:

Moultrie Feeders
150 Industrial Road
Alabaster, AL 35007

Manufacturer:

Applicant

(c)(2): **FCC ID**:

Model Number: Feeder Remote Control

(c)(3): **Instruction Manual(s):**

Please See Attached Exhibits

(c)(4): **Type of Emission**: 00K

(c)(5): **Frequency Range, MHz**: 315.00

(c)(6): **Power Rating, mV/m @ 3m**: 3.82

____ Switchable ____ Variable _X_ N/A

(c)(7): **Maximum Power Rating, mV/m @ 3m** 6.05

15.203: **Antenna Requirement**:

_X_ The antenna is permanently attached to the EUT
____ The antenna uses a unique coupling
____ The EUT must be professionally installed
____ The antenna requirement does not apply

Subpart 2.1033 (continued)

(c)(8): **Voltages & currents in all elements in final RF stage, including final transistor or solid state device**:

Collector Current	=	Less than 10mA
Collector Voltage, Vdc	=	12.0
Supply Voltage, Vdc	=	12.0

(c)(9): **Tune-Up Procedure**:

Please See Attached Exhibits

(c)(10): **Circuit Diagram/Circuit Description**:

Including description of circuitry & devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation and limiting power.

Please See Attached Exhibits

(c)(11): **Label Information**:

Please See Attached Exhibits

(c)(12): **Photographs**:

Please See Attached Exhibits

(c)(13): **Digital Modulation Description**:

___ ATTACHED EXHIBITS
_x_ N/A

(c)(14): **Test and Measurement Data**:

Follows

Sub-part **2.1033(b)**: **Test And Measurement Data**

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2, Sub-part J, Sections 2.1031, 2.1033, 2.1035, 2.1041, 2.1043, 2.1045, and the following individual Parts:

____	15.209	Radiated emission limits; general requirements
____	15.211	Tunnel radio systems
____	15.213	Cable locating equipment
____	15.214	Cordless telephones
____	15.217	Operation in the band 160-190 kHz
____	15.219	Operation in the band 510-1705 kHz
____	15.221	Operation in the band 525-1705 kHz (leaky coax)
____	15.223	Operation in the band 1.705-10 MHz
____	15.225	Operation in the band 13.553-13.567 MHz
____	15.227	Operation in the band 26-27.28 MHz (remote control)
____	15.229	Operation in the band 40.66-40.70 MHz
X	15.231	Periodic operation in the band 40.66-40.70 MHz and above 70 MHz
____	15.233	Operation within the bands 43.71-44.49, 46.60-46.98 MHz 48.75-49.51 MHz and 49.66-50.0 MHz
____	15.235	Operation within the band 49.82-49.90 MHz
____	15.237	Operation within the bands 72.0-73.0 MHz, 74.6-74.8 MHz and 75.2-76.0 MHz (auditory assistance)
____	15.239	Operation in band 88-108 MHz
____	15.241	Operation in the band 174-216 MHz (biomedical)
____	15.243	Operation in the band 890-940 MHz (materials)
____	15.245	Operation within the bands 902-928 MHz, 2435-2465 MHz, 5785-5815 MHz, 10500-10550 MHz, and 24075-24175 MHz (filed disturbance sensors)
____	15.247	Operation within bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz (spread spectrum)
____	15.249	Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz
____	15.251	Operation within the bands 2.9-3.26 GHz, 3.267-3.332 GHz, 3.339-3.3458 GHz, and 3.358-3.6 GHz (vehicle identification systems)
____	15.321	Specific requirements for asynchronous devices operating in the 1910-1920 MHz and 2390-2400 MHz bands (Unlicensed PCS)
____	15.323	Specific requirements for isochronous devices operating in the 1920-1930 MHz sub-band (Unlicensed PCS)

Standard Test Conditions and Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992/2003, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst case measurements.

Name of Test: Signaling Restriction

Specification: 47 CFR 15.231(a)

Provisions

To Paragraph 15.231

(a) Types of momentary signals
X The EUT only transmits a control signal.
_____ The EUT meets the requirements provided in (e).

(a)(1) Manually operated transmitters
_____ The EUT can not be manually activated.
X The EUT ceases transmission within 5 seconds or deactivation.
_____ The EUT is employed during emergencies.

(a)(2) Automatically activated transmitters
X The EUT can not be automatically activated.
_____ The EUT does not transmit for more than 5 seconds.
_____ The EUT only operates during an alarm condition.

(a)(3) Automatically activated transmitters
_____ The EUT does not transmit at regular predetermined intervals.
_____ The EUT meets the requirements provided in (e).
_____ The EUT does not transmit more than one, one second per hour.

(a)(4) Emergency transmitters
_____ The EUT is not an emergency transmitter.
_____ The EUT only operates during an alarm condition.

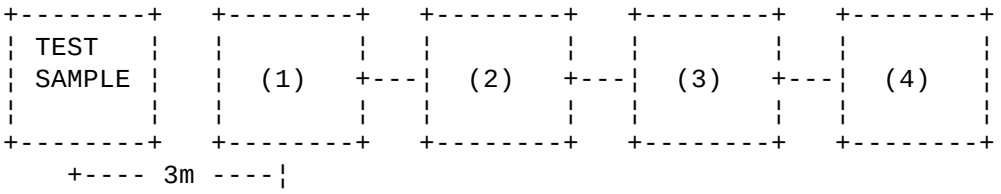
Verified By: David E. Lee, FCC/IC Compliance Manager

Name of Test: Field Strength of Emissions

Specification: 47 CFR 2.1053(a)

Guide: ANSI C63.4 2003

Radiated Test Setup



Measurement Procedure

1. In the field, tests were conducted over the range shown, The test sample was set up on a wooden turntable above ground, and at a distance of three meters from the antenna connected to the Spectrum Analyzer.

2. In order to obtain the maximum response at each frequency, the turntable was rotated, and the search antenna was raised and lowered. The EUT was also adjusted for maximum response. Tests were conducted in Horizontal & Vertical polarization modes.

3. The field strength was calculated from:

$$E\ \mu V/m\ @\ 3\ m = \mathrm{Log}_{10}^{-1}\left(\frac{dB\mu V + A.F. + C.L.}{20}\right)$$

4. Measurement Results: Attached for "Worst Case" conditions.

Test Equipment:

	Asset (as applicable)	Description	s/n	Cycle (Per ANSI C63.4-1992/2000 Draft, 10.1.4)	Last Cal
Transducer					
X	i00088	EMCO 3109-B 25MHz-300MHz	2336	24 mo.	Sep-05
	i00065	EMCO 3301-B Active Monopole	2635	24 mo.	Sep-05
X	i00089	Aprel 2001 200MHz-1GHz	001500	24 mo.	Sep-05
X	i00103	EMCO 3115 1GHz-18GHz	9208-3925	24 mo.	Jan-06
Amplifier					
	i00028	HP 8449A	2749A00121	12 mo.	Mar-05
Spectrum Analyzer					
	i00029	HP 8563E	3213A00104	12 mo.	Jan-06
X	i00033	HP 85462A	3625A00357	12 mo.	Jan-05
	i00048	HP 8566B	2511AD1467	12 mo.	Jan-05

Test Setup: Radiated Emissions

Name of Test: Radiated Spurious Emissions (Harmonic)

Limits: Fundamental – 6.041mV/m @ 3m
Harmonics – 0.6041 mV/m @ 3m

g0620063: 2006-Feb-14 Tue 11:24:00
State: 2:High Power Ambient Temperature: 23°C ± 3°C

Frequency Tuned, MHz	Frequency Emission, MHz	Meter, dBuV	Detector	CF, dB	uV/m @ 3m
315.000000	315.045000	52.66	QP	18.97	3815.0
315.000000	630.090000	17.28	QP	29.39	213.0
315.000000	945.150000	16.76	QP	35.21	389.0
315.000000	1259.675000	11.71	QP	27.14	87.0
315.000000	1889.470000	17.12	QP	30.73	245.0
315.000000	2204.390000	15.37	QP	32.27	239.0
315.000000	2519.310000	12.89	QP	33.45	204.0
315.000000	3149.150000	8.07	QP	34.95	142.0

All other emissions are more than 20dB below the limit.

Supervised By: David E. Lee, FCC/IC Compliance Manager

Name of Test: Radiated Spurious Emissions (Non-Harmonic)

Test Equipment: As per previous page

Measurement Results: Radiated Spurious Emissions (Non-Harmonic)

Frequency of Carrier, MHz = 315.00
Spectrum Searched = 0 to 10 x F_C

Results: Transmitter Spurious Emissions

g05c0082: 2005-Dec-02 Fri 14:35:00
State: 0:General

Frequency Emission, MHz	Level, dBuV	@ m	C.F., dB	µV/m	@ m	Margin, dB
109.890000	10.56	3	10.39	11.16	3	-22.1
127.820000	19.61	3	12.28	39.31	3	-11.1
178.810000	11.53	3	12.37	15.67	3	-19.1
300.710000	20.85	3	15.32	64.34	3	-9.8
472.440000	10.52	3	18.64	28.71	3	-16.8
787.543000	12.14	3	25.27	74.22	3	-8.6

Supervised By: David E. Lee, FCC/IC Compliance Manager

Name of Test: Emission Masks (Occupied Bandwidth)

Specification: 47 CFR 2.1049(c)(1)

Guide: ANSI/TIA/EIA-603-1992, Paragraph 2.2.11

Test Equipment: As per attached page

Measurement Procedure

1. The EUT and test equipment were set up as shown on the following page, with the Spectrum Analyzer loosely coupled.

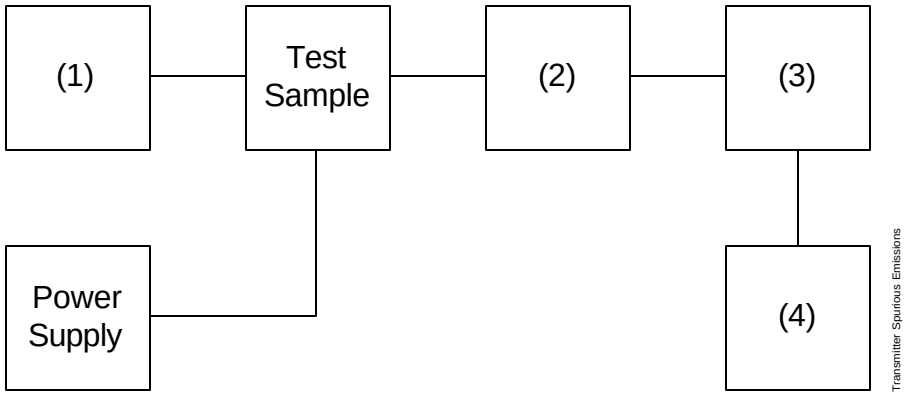
2. The transmit function was enabled.

3. The Occupied Bandwidth was measured with the Spectrum Analyzer controls set as shown on the test results.

4. Measurement Results: Attached

Transmitter Spurious Emission

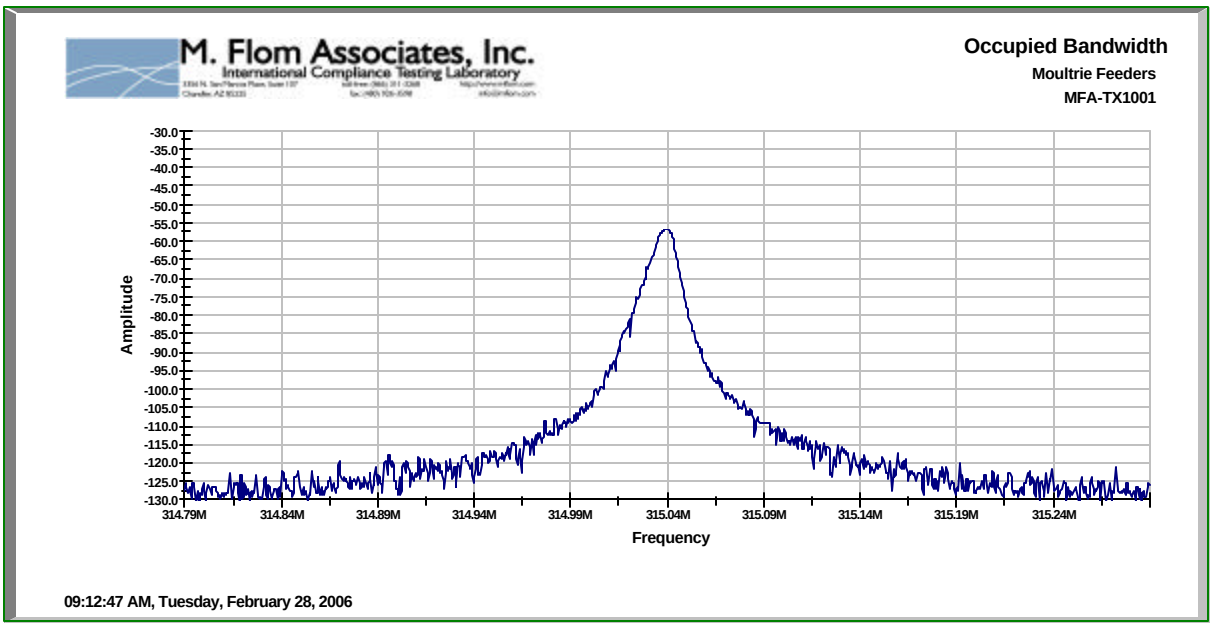
Test A. Occupied Bandwidth (In-Band Spurious)
Test B. Out-of-Band Spurious



	Asset	Description	s/n	Cycle	Last Cal
(1)	**Audio Oscillator/Generator**				
____	i00017	HP 8903A	2216A01753	12 mo.	Jun-05
(2)	**Coaxial Attenuator**				
____	i00069	Bird 8329 (30 dB)	1006	NCR	
____	i00113	Sierra 661A-3D	1059	NCR	
(3)	**Filters; Notch, HP, LP, BP**				
____	i00126	Eagle TNF-1	100-250	NCR	
____	i00125	Eagle TNF-1	50-60	NCR	
____	i00124	Eagle TNF-1	250-850	NCR	
(4)	**Spectrum Analyzer**				
X	i00048	HP 8566B	2511A01467	12 mo.	Jul-05
____	i00029	HP 8563E	3213A00104	12 mo.	Jan-06

Name of Test: Emission Masks (Occupied Bandwidth)

State:



Power: High (Loose Coupled)
99% Power Bandwidth: 78kHz

Supervised By: David E. Lee, FCC/IC Compliance Manager

Name of Test: Necessary Bandwidth and Emission Bandwidth

Specification: 47 CFR 2.202(g)

Modulation = 00K

Necessary Bandwidth Measured, MHz: 0.078

Supervised By: David E. Lee, FCC/IC Compliance Manager

Radiated Measurements
For Part 15 Transmitters W/ Integral Antennas

Radiated Measurements

Range Of Measurement	Specification	Resolution B/W	Video B/A
30 to 1000 MHz	CISPR	≥ 100 kHz	≥ 100 kHz
>1000 MHz	FCC, 15.37(b)	1 MHz	≥ 1 MHz
(if averaging)	FCC, 15.37(b)	1 MHz	10 Hz

Measuring Equipment

a. **Antennas**:

	EMCO 3109	20 - 300 MHz
X	APREL AALP2001	200 - 1000 MHz
	APREL AAB20200	20 - 200 MHz
X	APREL AAH118	1 - 18 GHz

b. **Instruments**:

X	HP8566B	Spectrum Analyzer
X	HP85685A	Preselector, w/ preamp below 2 GHz
X	HP85650A	Quasi Peak Adapter
	HP8449	Preamp, above 2 GHz

Occupied Bandwidth

Occupied Bandwidth is measured as a radiated signal without attenuators and/or filter. RBW, VBW and scan settings as shown were set to produce a meaningful result in accordance with ANSI C63.4, Section 13.1.7.

Part 15.21, Information to User

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly avoided by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.205 Restricted Bands of Operation

(a) Except as shown in paragraph (b) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.25
0.495-0.505	16.69475-16.69625	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-339.4	3600-4400	
13.36-13.41			

Testimonial
and
Statement of Certification

This is to certify:

1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.
2. **That** the technical data supplied with the application was taken under my direction and supervision.
3. **That** the data was obtained on representative units, randomly selected.
4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

Certifying Engineer: David E. Lee, FCC/IC Compliance Manager