

EXHIBIT 5

CFS8DLLYNX

Report of Measurements.

Measurements were made in accordance with the procedures and reporting requirements of ANSI C63.4-1992.

Since this is a transceiver device, requiring certification of the transmitter and verification of the superhet receiver, only the transmitter emissions are reported (below).

The Test Set-Up (C63.4 section 10.1.3) is shown in the attached drawing. The attached photographs shows the attached power supply and telephony connections during the emissions measurements. The sequence of testing (C63.4 section 10.1.7) for radiated emissions is as follows: A preliminary scan was conducted with the receiver antenna close to the EUT in order to identify the emission characteristics of the EUT (C63.4 section 8.3.1.1). The antenna and EUT were then placed at the proper separation with the EUT positioned on a non-conducting turntable. The EUT was rotated on the turntable to maximize the received signal strength, then the receiver antenna height was varied to further maximize the received reading. Thereafter, the device was again rotated to a peak output position and the antenna height was re-adjusted for maximum received signal. This procedure was re-iterated until there was no further increase in signal level. This procedure was performed with the EUT rotating in three orthogonal planes (C63.4 section 13.1.4.1) to generate a final maximum reading which is recorded on the radiated emissions result sheet.

Similar measurements were made on the receiver to ensure compliance as an unintentional radiator. The results of the receiver emission measurements are in the Ademco Radio Engineering FCC file at the address above.

Note, since the device may use either six 'AA' or a single 9V back-up battery, these measurements were conducted with both battery types and worse case emissions are reported.

See Exhibit 6 for list of test equipment (C63.4 section 10.1.4).

Note, Spectrum Analyzer resolution bandwidths set as follows;  
(Video Bandwidth set greater than RBW)

- For occupied bandwidth measurements, RBW = 100kHz,  
(This is in accordance with the minimum RBW allowed by C63.4,  
which requires RBW greater than 5% of the FCC required occupied  
bandwidth spec of 0.25% of center frequency).
- For radiated emissions below 1 GHz, the RBW = 100kHz.  
Detector function set to peak.
- For radiated emissions above 1 GHz, the RBW = 1MHz.  
Detector function set to peak.

**OCCUPIED BANDWIDTH** is shown on attached plot.

**RADIATED EMISSIONS** are recorded on attached sheet.

# RADIATED EMISSIONS DATA SHEET

DATE: 5/22/98 TESTED BY: Steve Allred APPROVED BY: Nan Adity

TEST SAMPLE (model): ADEMCO Transmitter LYNX

TEST METHOD: ANSI C63.4 - 1992

TEST SPECIFICATION: FCC Part 15, Subpart C

NOTES: 1) Fc = 345 MHz, 2) Detector = Peak, 3) Frequency range scanned to

4 GHz. Emissions not reported were more than 20 dB below the specified limit.

4) Conv. reading =  $10^{\frac{(\text{Meter reading} + \text{Cable/Amp factor} + \text{Antenna factor})}{20}}$

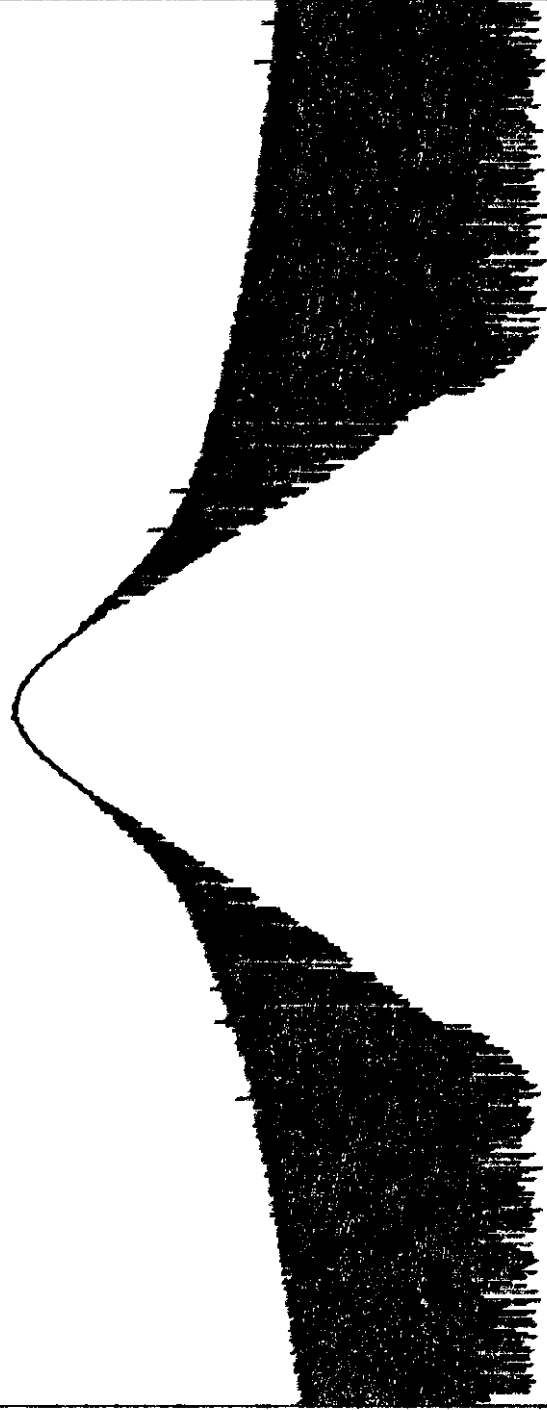
5) Corr. reading = Conv. reading X Duty cycle

| FREQUENCY<br>(MHz) | POLARITY<br>(V / H) | METER<br>READING<br>(dB uV) | CABLE/AMP<br>FACTOR<br>(dB) | ANTENNA<br>FACTOR<br>(dB/M) | CONV.<br>READING<br>(uV/M) | DUTY<br>CYCLE<br>( % ) | CORR.<br>READING<br>(uV/M) | LIMIT<br>@ 3M<br>(uV/M) |
|--------------------|---------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|------------------------|----------------------------|-------------------------|
| 30                 |                     |                             |                             |                             |                            |                        |                            | 729                     |
| ↓                  |                     |                             |                             |                             |                            |                        |                            | ↓                       |
| 345                | H                   | 72                          | 1.3                         | 19.8                        | 45186                      | 10%                    | 4519                       | 7292                    |
|                    |                     |                             |                             |                             |                            |                        |                            | ↓                       |
| 690                | H                   | 45                          | 1.8                         | 25.5                        | 4121                       | 10%                    | 412                        | 729                     |
|                    |                     |                             |                             |                             |                            |                        |                            | ↓                       |
| 1035               | V                   | 42                          | 2.0                         | 25.1                        | 2851                       | 10%                    | 285                        | 500                     |
|                    |                     |                             |                             |                             |                            |                        |                            | ↓                       |
| 1380               | V                   | 36                          | 2.6                         | 29.0                        | 2399                       | 10%                    | 240                        | 500                     |
|                    |                     |                             |                             |                             |                            |                        |                            | ↓                       |
| 1725               | V                   | 40                          | 3.0                         | 30.0                        | 4467                       | 10%                    | 447                        | 729                     |
| 2070               | V                   | 42                          | 3.4                         | 30.5                        | 6237                       | 10%                    | 624                        | ↓                       |
| 4000               |                     |                             |                             |                             |                            |                        |                            | 729                     |

**®ADEMCO**

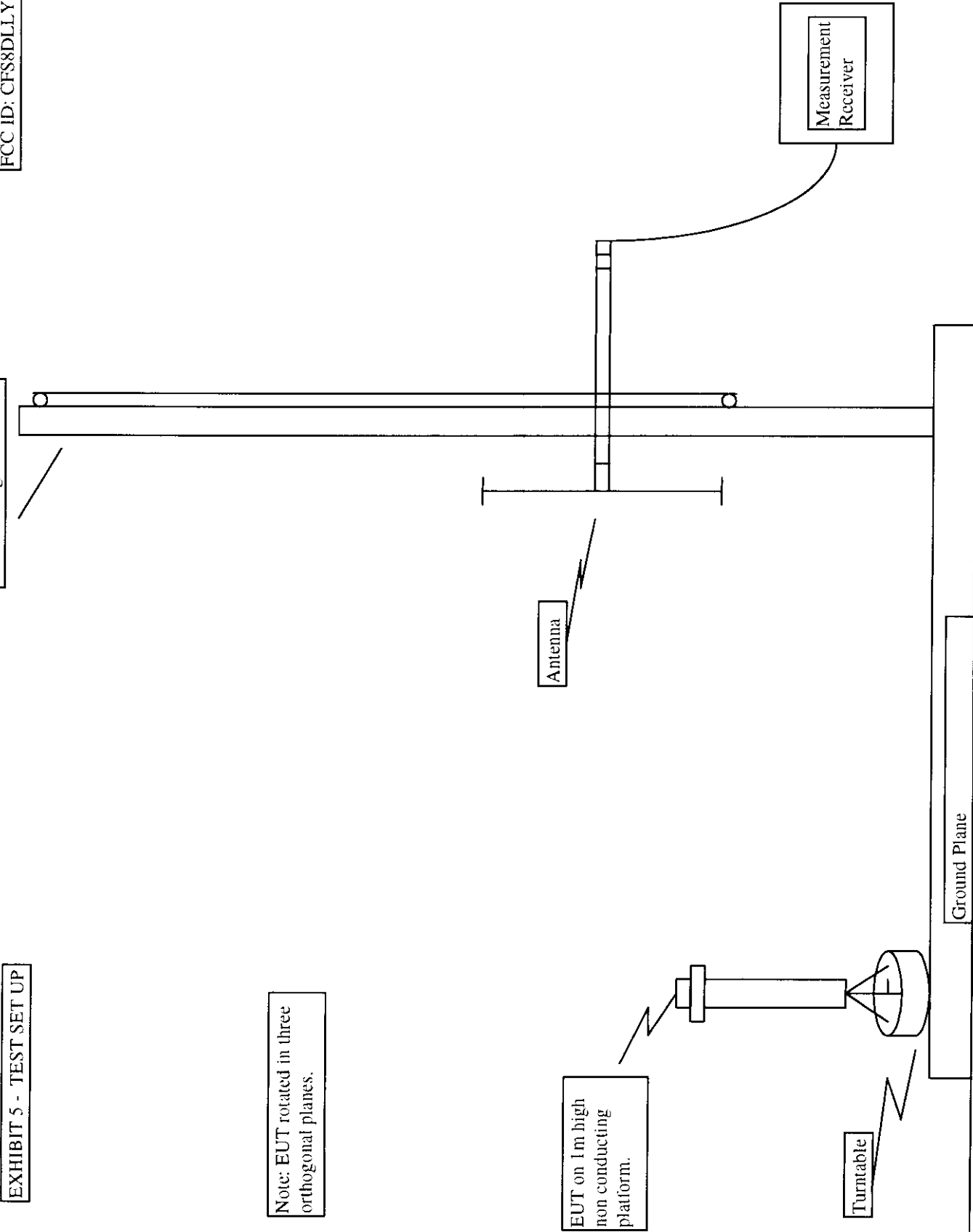
Alarm Device Manufacturing Company  
A Division of Pittway Corporation  
165 Eileen Way  
Syosset NY 11791

Mkr 344.996MHz      -32.00dBm      Tek  
Ref Lvl -20.0dBm    10dB/    Atten 10dB



Freq 345.000MHz      Span 1.0MHz  
ResBW 100kHz    VidBW 100kHz    SWP 50ms  
LEVEL RESBW    ResBW 100kHz

Antenna Height Position



Antenna

Measurement Receiver

Ground Plane

EUT on 1m high non conducting platform.

Turntable

Note: EUT rotated in three orthogonal planes.

EXHIBIT 5 - TEST SET UP

## EXHIBIT 6

CFS8DLLYNX

## Test Equipment List.

| Model   | Description                    | Calibrated | s/n        |
|---------|--------------------------------|------------|------------|
| 2383    | Marconi Spectrum Analyzer      | 9/25/97    | 152048/006 |
| 2380    | Marconi display                | 9/25/97    | 152046/056 |
| Antenna | Roberts dipole 30 - 65 MHz     | 7/29/97    | 110        |
| Antenna | Roberts dipole 65 - 180 MHz    | 7/29/97    | 110        |
| Antenna | Roberts dipole 180 - 400 MHz   | 7/29/97    | 110        |
| Antenna | Roberts dipole 400 - 1000 MHz  | 7/29/97    | 110        |
| Antenna | Electrometrics Horn 1 - 18 GHz | 7/24/97    | 6127       |
| Cable   | RG58U                          |            | -          |
| 2784    | Tektronix spectrum analyzer    | 7/14/97    | B010165    |

# Regulatory Agency Statements

**UL NOTICE: This is a "Grade A" residential system.**

## FCC STATEMENT

**FCC ID: CFS8DLLYNX**

THIS DEVICE COMPLIES WITH PART 15 OF FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

## FEDERAL COMMUNICATIONS COMMISSION (FCC) Part 15 STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.
- Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user or installer may find the following booklet prepared by the Federal Communications Commission helpful: "Interference Handbook"

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402.

*The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.*

## FEDERAL COMMUNICATIONS COMMISSION (FCC) Part 68 STATEMENT

This equipment complies with Part 68 of the FCC rules. On the front cover of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

This equipment uses the following jacks: An RJ31X is used to connect this equipment to the telephone network.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact the manufacturer for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved.

There are no user serviceable components in this product, and all necessary repairs must be made by the manufacturer. Other repair methods may invalidate the FCC registration on this product.

This equipment cannot be used on telephone company-provided coin service. Connection to Party Line Service is subject to state tariffs.

This equipment is hearing-aid compatible.

When programming or making test calls to an emergency number, briefly explain to the dispatcher the reason for the call. Perform such activities in the off-peak hours; such as early morning or late evening.

FCC compliance statement and FCC user's warning from installation instructions.

**FCC ID: CFS8DLLYNX**



### EXHIBIT 3

**CFS8DLLYNX**

Message protocol, timing and duty cycle calculation.

The data output is phase encoded Manchester which has inherent 50% duty cycle.

The transmitted data rate is 3.95 kBs +/-0.5%, i.e. each bit is 253.1uS duration typical and 254.3uS max.

The word format consists of 72 bits,

The duration of each word is 18.31 mSec max.

Each word is transmitted 6 times at each transmission event, the words are separated (start to start) by 102mSec.

The total transmission time at each transmission event is 528.31mSec.

The duty cycle over a 100mSec measuring period is calculated as follows:

Duty Cycle = Actual RF transmission ON time / 100mSec (interval)

Actual transmission ON time = 72 bits X 50% X 254.3uSec =  
= 9.15mSec

Therefore Duty cycle = 9.15 / 100 mSec = .0915 = 9.15%