

FINAL
REPORT FOR GLOBAL INSTRUMENTS
FIELD SITE OBSERVATIONS

PREPARED BY
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AND
INDEPENDENT RESEARCHER
FOR ELECTRONIC PEST CONTROL DEVICE

EFFICACY
ON
ROACHES
ONLY!

H. Shytel Glover Consultation



HPM Worldwide Electronic Pest Control

Appointments Only
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INTRODUCTION

As an independent Consultant-Researcher, I have been asked by Global Instruments Ltd. to test an Electronic Device for the control of roaches.

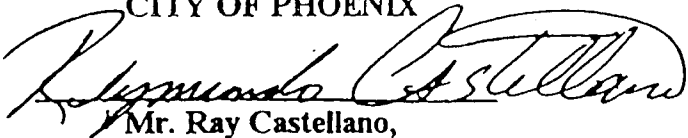
This report will show the result of how effective this device is on American, German, Turkish, and Oriental roaches. At this time, the City of Phoenix is experiencing a infestation problem with these species of roaches in their housing projects. The test sites used in this study are apartment buildings built in the Phoenix area in 1940. The Electronic Pest Control ("EPC") Device was tested on "real life" severe infestation situations.

In my opinion, the testing of the EPC device accomplished the following:

1. Adult roaches were brought out of hiding into the open area of the testing site and onto glue board/traps for counting and disposal;
2. Adult roaches with egg cases were driven out of hiding into the open area of the testing site and onto glue board/traps for counting and disposal; and
3. Nymphs, also known as "baby roaches," were drawn out into the open area of the testing site onto glue board/traps from their nests.

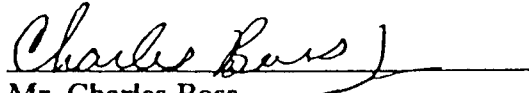
Validated observations are presented herein as observed by City of Phoenix Certified Pest Control Operator, Ray Castellano, his Assistant, Charles Boss, City of Phoenix Building Maintenance Forman, Kyle Kyselka and Consultant, H. Shytel Glover.

CITY OF PHOENIX



Mr. Ray Castellano,
Certified Pest Control Operator

CITY OF PHOENIX



Mr. Charles Boss,
Assistant to Mr. Castellano

CITY OF PHOENIX



Mr. Kyle Kyselka,
Building Maintenance Foreman

EPC



H. Shytel Glover, Consultant

II.

OBSERVATIONS

Pre-Inspection of roach test site for Global Instruments Ltd.

Starting Date to Check Units: March 14, 1997

Time in: 9:00 a.m. Time Out: 10:00 a.m.

I. TEST SITE:

Test sites are two (2) City of Phoenix Public Housing buildings consisting of four (4) apartments in one building and two (2) apartments in the other building, totaling six (6) apartments.

II. BUILDING # 1:

A. 305 West Yuma, Apartment No. 513, Phoenix, AZ

There was no sign of roach activity in this one bedroom apartment. The City of Phoenix Pest Control Operator, Ray Castellano, who is a Certified Pest Control Operator stated that this apartment is not an apparent problem. Mr. Castellano further states that the other three (3) apartments in Building #1, are seriously roach infested.

B. 307 West Yuma, Apartment No. 514, Phoenix, AZ

Very active roach activity is present in the kitchen. Roach feces were observed on the kitchen walls and corners. In addition, spider webs were observed throughout the apartment.

C. 309 West Yuma, Apartment, No. 515, Phoenix, AZ

Roach feces were observed on kitchen walls and corners. When checking underneath the kitchen sink, no crawling roach activity was observed. In addition, spider webs were found throughout the apartment.

D. 311 West Yuma, Apartment No. 516

This apartment appears to be kept in better condition than apartments 513, 514, 515 and 516. However, roach feces were present. In addition, spider webs were found throughout the apartment.

III. BUILDING #2:

A. Building No. 1207A, Apartment No. 483, Phoenix, AZ

Apartment No. 483 is a four bedroom apartment with less than 2,000 square feet of living area. Four crawling roaches were observed in the kitchen area. In addition, spider webs could be found throughout the apartment.

B. Building No. 1207B, Apartment No. 484, Phoenix, AZ

Apartment No. 484 is a vacant four (4) bedroom apartment which has less than 2,000 square feet of living area. One large, dead cockroach was observed on a bedroom floor. In addition, eight (8) newly born roaches were found inside of the kitchen oven.

III.

TESTING PROTOCOL

Six (6) field sites were made available for the testing of the EPC Device.

The sites were monitored for one week, excluding Saturday and Sunday, as City of Phoenix employees do not work on weekends. Before the EPC Device is installed, two (2) to three (3) monitoring suggestions must be used.

Commencing March 18, 1997 and concluding on March 23, 1997, tracking board/traps were installed at the test sites. The following monitoring equipment was used:

1. Twelve (12) tracking boards to record activity;
2. Twelve (12) feeding cups of peanut butter; and
3. Thirty-Three (33) roach glue board/traps.

The first week before the installation of the Electronic Pest Control Device, we encountered significant recorded roach activity, as clearly indicated in the graphs enclosed herein.

The EPC Devices were installed and monitored at all the test sites for a period of four (4) weeks, commencing on March 24, 1997 and concluding on April 20, 1997 (excluding all Saturdays and Sundays in the four week period). By stating that we "installed" the EPC Devices, simply put, we plugged the device into any 110 electrical outlet and "installation" was complete.

On April 21, 1997, we removed the EPC Devices from each test site and for two weeks recorded the roach activity without the benefit of the presence of the EPC Device (See graphs enclosed herein).

Commencing on May 6, 1997 and concluding on June 2, 1997 no monitoring or counting was done to see if the roaches had returned. However, on June 2, 1997 new tracking and glue boards were installed in all of the test sites.

Commencing on June 3, 1997 and concluding on June 16, 1997, daily counts were observed and recorded at each test site and the monitoring sheets enclosed herein, reflect the return of the roaches.

VII.

CONCLUSION

Global Instruments, Ltd.'s Electronic Pest Control Device is said to alter the normal magnetic electric field of all the electrical wiring of buildings. Each apartment tested, as stated herein, has under 2,000 square feet of living space. The altered field gets to the roach nesting areas in walls, under appliances, or even behind or in structures like cabinets forcing them out into the open, where they are captured in glue boxes for counting and disposal.

As observed and recorded, Global's EPC Device drives roaches out from hiding. After the first 24 hours the EPC Devices definitely increased the roach activity in each apartment site tested. Within the first week, a substantial amount of roaches were found on the floors of each apartment testing site. A substantial amount of Nymphs, from their nests, were also found in glue boards/traps. In addition, over 122 nymphs were trapped in the first week of testing in apartment No. 515 .

During the second testing week in Building Two (2), nymph nests were discovered in apartment 483 and 43 nymphs were trapped in glue boards/traps over a 24 hour period. These figures assure accuracy as each board/trap was thrown away after each daily count.

Accurate daily observations have been witnessed by three City of Phoenix employees, the tenants at the testing sites and this Consultant. They are to be considered accurate because:

1. The traps were thrown away daily after the count if only one roach or nymph was caught, except on Saturday and Sundays.

In summary, the field sites used in this testing for the Global Instruments, Ltd., ("real life situations") has enabled this Consultant-Researcher to come to the following conclusions in Phoenix.

1. The testing clearly showed that Global Instrument's EPC Device definitely creates some stressing effects on German, American, Oriental and Turkish roaches;

2. City of Phoenix employees were present for the duration of testing as were the tenants of the testing site apartments and this Consultant. We were all surprised with the clear and evident rapid reduction in the roach population in each testing site, without using pesticides; and

3. The EPC Device is not only effective in repelling roaches, but after removal, has a residual effect for approximately Thirty (30) days, as the record shows.

In conclusion, after reviewing testing results from all testing sites, I have concluded that if Global's EPC Device is installed for a period of four (4) to nine (9) weeks, using the appropriate number of Devices as calculated by the total square footage of each site, the Device will drive roaches from any wired, insulated structure and will prevent new roach nestings from developing. In my opinion, the data obtained in these tests shows that the Device produces about an 88% success rate.

Respectfully submitted.

EPC


H. Shytel Glover, Consultant