

INTERMODAL MATERIÉL
AND
NAUTICAL/NUCLEAR ANALYSIS
IMANNA
LABORATORY INC.

CERTIFICATION TEST REPORT

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CERTIFICATION TEST REPORT 14773-1
OF
UV EXPOSURE
ON
KEYPADS FOR CORRECT CRAFT DASH POD

CUSTOMER:

GRAYHILL, INC.
P.O. BOX 10373
LA GRANGE, IL 60525

MANUFACTURER
OF TEST ARTICLE: GRAYHILL, INC.
LA GRANGE, IL

DATE: SEPT. 7, 1999

REPORT NO.: 14773-1
IMANNA JOB NO.: 14773
CUSTOMER P.O. NO.: PN14510
CONTRACT: N/A
PAGES IN REPORT: 3

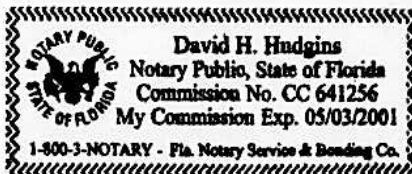
STATE OF FLORIDA

ROBERT L. WHITE, being duly sworn, deposes and says: The information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

Robert L. White

SUBSCRIBED and sworn to before me this 7th day of September, 1999

David H. Hudgins



Imanna shall have no liability for damages of any kind to person or property, including special or consequential damages resulting from Imanna's providing the service covered by the report.

IMANNA LABORATORY, Inc.

TEST BY

Robert L. White
PROJ. ENGINEER

1. SPECIMEN

Four Correct Craft Keypads w/ Bezels were received for test.

2. REQUIREMENTS

The requirements for this effort are to perform a 400 HR. UV accelerated weathering test on the supplied samples in accordance with ASTM D4329.

3. PROCEDURES

The procedures utilized in the performance of this effort are ASTM D4329. The parts were placed in an accelerated weathering machine and subjected to the following conditions:

8 hours UV-B Light, Black Body Temp. of 60°C

4 hours condensate water, Black Body Temp. of 30°C

This cycle was repeated continuously during the 400 hour test period.

4. RESULTS OF UV ACCELERATED WEATHERING

No changes could be detected as a result of the 400 hours of exposure. Each of the tested pieces matched the control samples following the test cycle.

4.1

The large Keypad was exposed for a total of 400 hours. No change was noted.

4.2

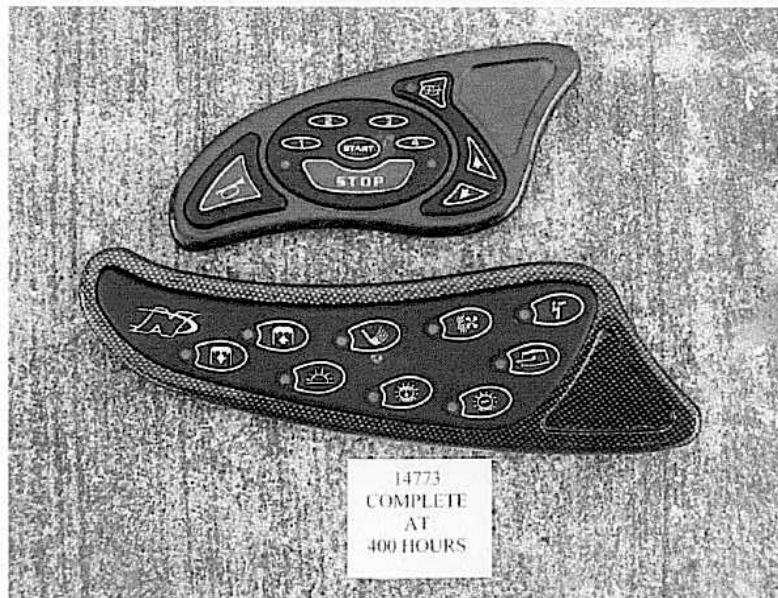
The large black & grey Bezel was exposed for a total of 400 hours. No change was noted.

4.3

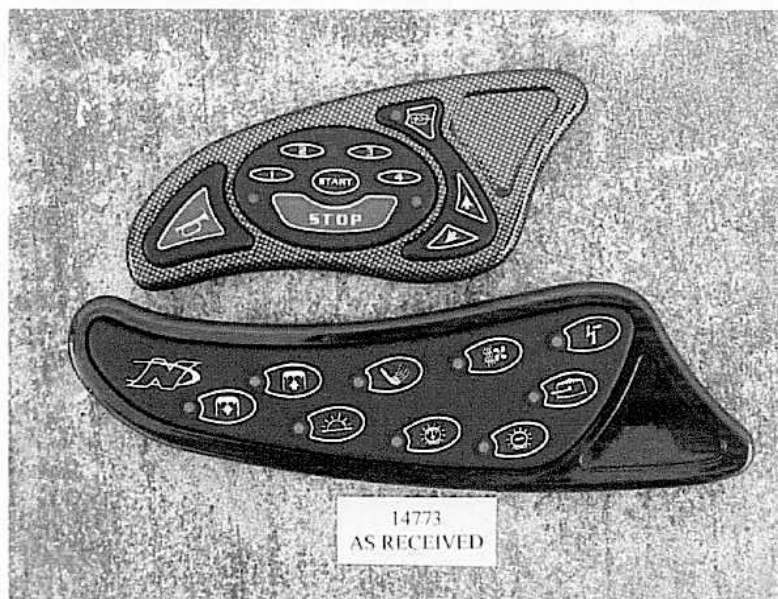
The small Keypad was exposed for a total of 400 hours. No change was noted.

4.4

The small woodgrain Bezel was exposed for a total of 400 hours. No change was noted.



VIEW OF TESTED SPECIMENS (400 HOURS)



VIEW OF CONTROL SAMPLES