



Entela, Inc. World Headquarters
A Certified Woman-Owned Business
3033 Madison Ave. SE
Grand Rapids, MI 49548-1289
Ph: (616) 247-0515
Fax: (616) 247-7527
1-800-888-3787
www.entela.com

HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

Report No.: 03-0217-5067K
Page 1 of 13

Test Report For:

HIGH POINT FURNITURE INC.

**CALIFORNIA TB-133
FURNITURE SEATING FIRE TEST**

5901 Fully Upholstered Lounge Chair



James Eantz
Project Manager/kvm



Entela, Inc. World Headquarters
A Certified Woman-Owned Business
3033 Madison Ave. SE
Grand Rapids, MI 49548-1289
Ph: (616) 247-0515
Fax: (616) 247-7527
1-800-888-3787
www.entela.com

HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

Report No.: 03-0217-5067K
Page 2 of 13

Attention: Sue Rogers
HIGH POINT FURNITURE
1104 Bedford St.
High Point, NC 27261
Phone: 336-431-7101
Fax: 336-431-3070

Dear Sue:

Please see the attached data sheets and graphs for tests recently performed by Entela, Inc. on your 5901 Fully Upholstered Lounge Chair.

This report contains results arrived at after employing test procedures described herein on the specific test sample submitted. It is not intended to constitute a recommendation, endorsement, or certification of the product or material tested.

This report certifies that those tests were conducted by a professional test engineer or by supervised, qualified technicians. It also certifies that all equipment used in the testing process is suitable for the test objectives. Test samples will be retained for 30 days after completion of test, and will be discarded unless otherwise advised by the client.

Thank you for permitting Entela, Inc. to conduct this testing program for you.

Sincerely,

ENTECLA, INC.


James Jantz
Project Manager/kvm

HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

Report No.: 03-0217-5067K
Page 3 of 13

CALIFORNIA TB-133 TEST PROCEDURE

Flammability Test Procedure for Seating
Furniture for use in Public Occupancies

Test Procedure:

The submitted sample was tested according to the procedure outlined in the Bureau of Home Furnishings' Technical Bulletin Number 133, dated January, 1991.

Test Facility:

Full-Scale Fire Test Facility

Test Ignition Source:

Square Gas Burner as described in Appendix C.

Test Sample Conditioning:

Pre-conditioned 48 hours at $70 \pm 5^\circ\text{F}$ and relative humidity of less than 55%.

Test Criteria:

Seating furniture fails to meet the requirements of Technical Bulletin 133 under Group A if any of the following criteria are exceeded:

Criteria Group A:

1. Temperature increase of 200°F or greater at the ceiling thermocouple.
2. A temperature increase of 50°F or greater at the four (4) foot thermocouple.
3. Greater than 75% opacity at the four (4) foot smoke opacity monitor.
4. Carbon monoxide concentration shall not continuously exceed 1000 ppm for five (5) minutes.
5. Greater than 3 lbs. weight loss in the first ten (10) minutes of test.

Seating furniture fails to meet the requirements of Technical Bulletin 133 under Group B if any of the following criteria are exceeded:

Criteria Group B

1. A maximum rate of heat release of 80 kW or greater
2. A total heat energy release of 25 MJ or greater in the first 10 minutes of the test.
3. Greater than 75% opacity at the four (4) foot smoke opacity monitor.
4. Carbon Monoxide concentration shall not continuously exceed 1000 ppm for five (5) minutes.

HIGH POINT FURNITURE INC.

Date: June 10, 2003

P.O. No.: P706669

Report No.: 03-0217-5067K

Page 4 of 13

Date Received:

05/28/03

Date Tested:

06/4/03

TEST SAMPLE DESCRIPTION (PER PAOLI INCORPORATED)-DESK DIV.:

Product:	5901 Fully Upholstered Lounge Chair
Model Number:	CA5901IIICHY
Fabric Type:	100% Polyester
Fabric Color:	Foundation X Concord
Blocking Description (if present):	187 Intek Barrier
Filler Description (order of layering):	Foam, Dacron, Barrier, Fabric
Seat Cushion Dimensions:	6.5" x 21.5" x 23"
Back Cushion Dimensions:	2.5" x 19" x 22.5"
Arm Description (if present):	Bolt on Upholstered Arms
Additional Comments:	N/A

Conduct the California TB-133 Seating Product Burn Test on the 5901 Fully Upholstered Lounge Chair. Determine if the submitted sample meets the test requirements.

Acceptance Criteria:

Acceptance level criteria are listed in the summation table on the following page.

Conclusion:

The test results show that the 5901 Fully Upholstered Lounge Chair passed both Criteria A and Criteria B of the California TB-133 Burn Test.

Test Equipment:

Pennsylvania 5600 scale	Asset # 138051.7
LSI Dynatron 301 Smoke Density Monitor	Asset # 138051.9
Carbon Dioxide and Carbon Monoxide Dual Gas Analyzers	Asset # 138051.6
Rosemount Analytical OM11EA Oxygen Analyzer	Asset # 138051.5
Omega Differential Pressure Transmitter	Asset # 138051.12

HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

Report No.: 03-0217-5067K
Page 5 of 13

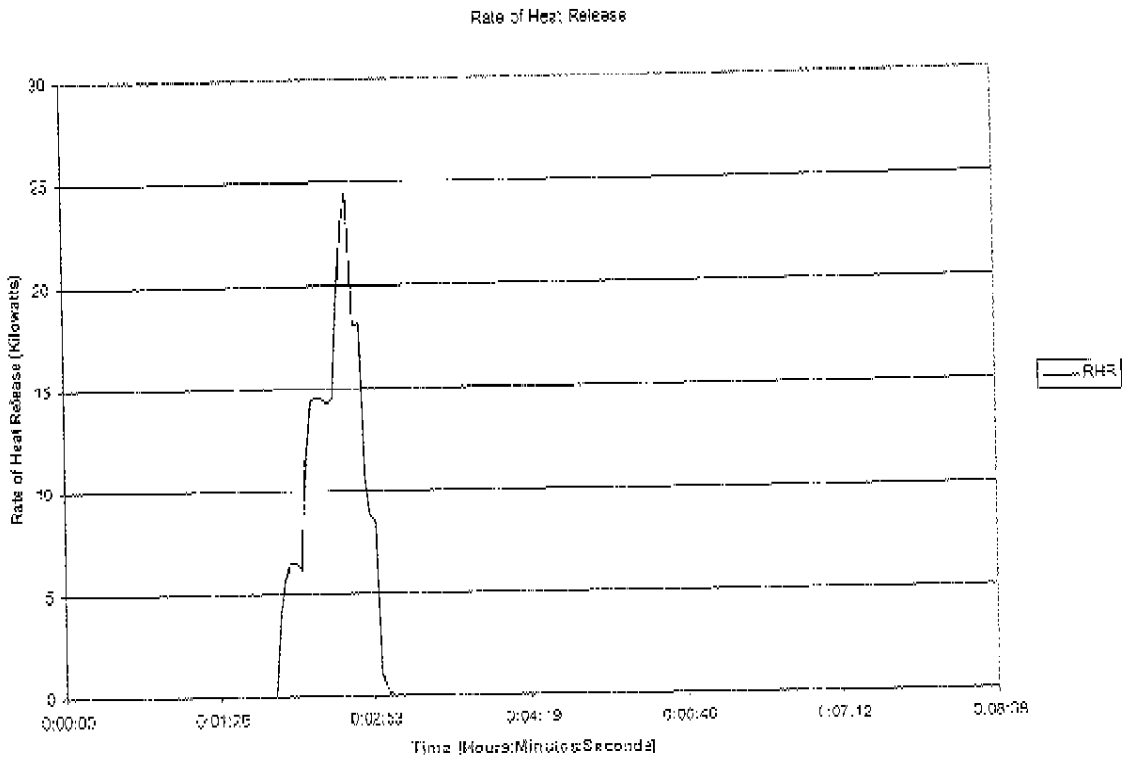
CALIFORNIA TB-133 FIRE TEST SUMMATION

Date Received: 05/28/03
Date Tested: 06/04/03
Product: 5901 Accompany Lounge Chair

	<u>Criteria</u>	<u>Actual Value</u>	<u>Pass/Fail</u>
8' Temp. Increase, (maximum), F	$\leq 200^{\circ}\text{F}$	61.8 $^{\circ}\text{F}$	Pass
4' Temp. Increase, (maximum), F	$\leq 50^{\circ}\text{F}$	23.2 $^{\circ}\text{F}$	Pass
4' Smoke Opacity, (maximum), %	$\leq 75\%$	13.5%	Pass
CO concentration (maximum), ppm	N/A	311ppm	N/A
Time CO is greater than 1,000 ppm (min:sec):	< 5:00	0:0	Pass
Pre-test weight of chair	N/A	67.05lbs	N/A
Weight loss at 10 minutes	$\leq 3\text{ lbs}$.30lbs	Pass
Post-test weight of chair	N/A	66.75lbs	N/A
Flame out (min:sec)	N/A	6:42	N/A
Max. Rate of Heat Release (kW)	$\leq 80\text{ kW}$	24.4kW	Pass
Total Heat Energy Release (MJ)	$\leq 25\text{ MJ}$.74MJ	Pass

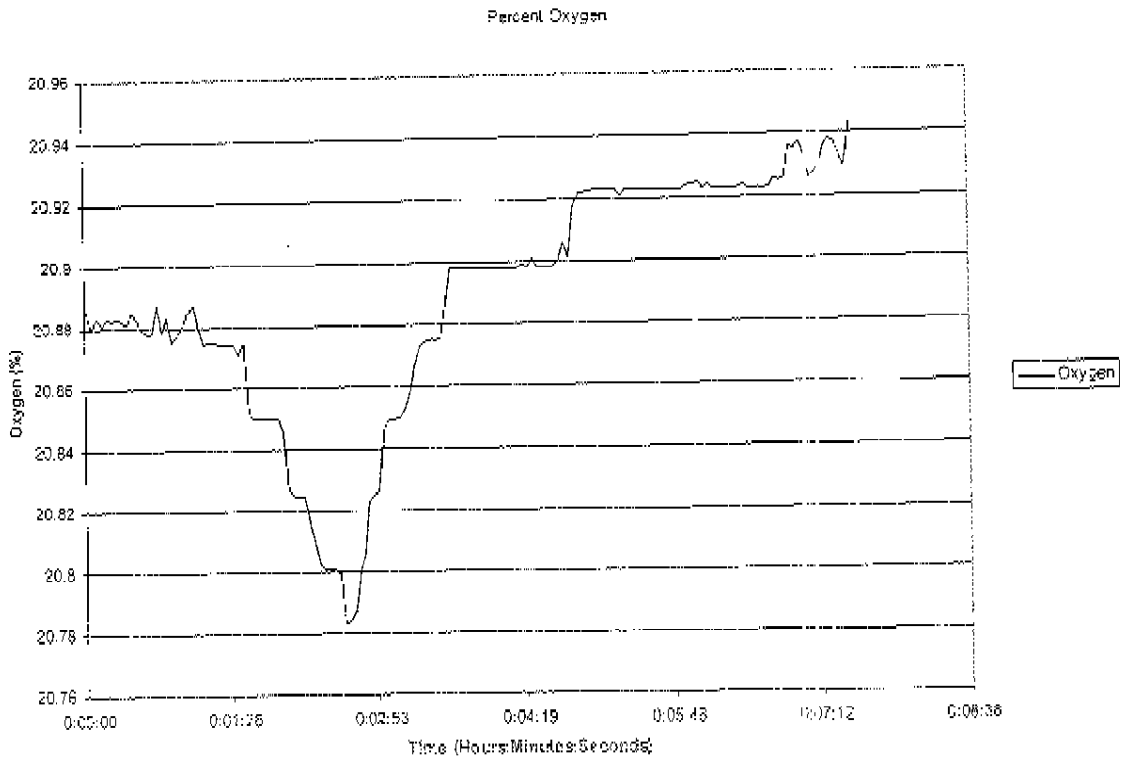
HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

Report No.: 03-0217-5067K
Page 6 of 13



HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

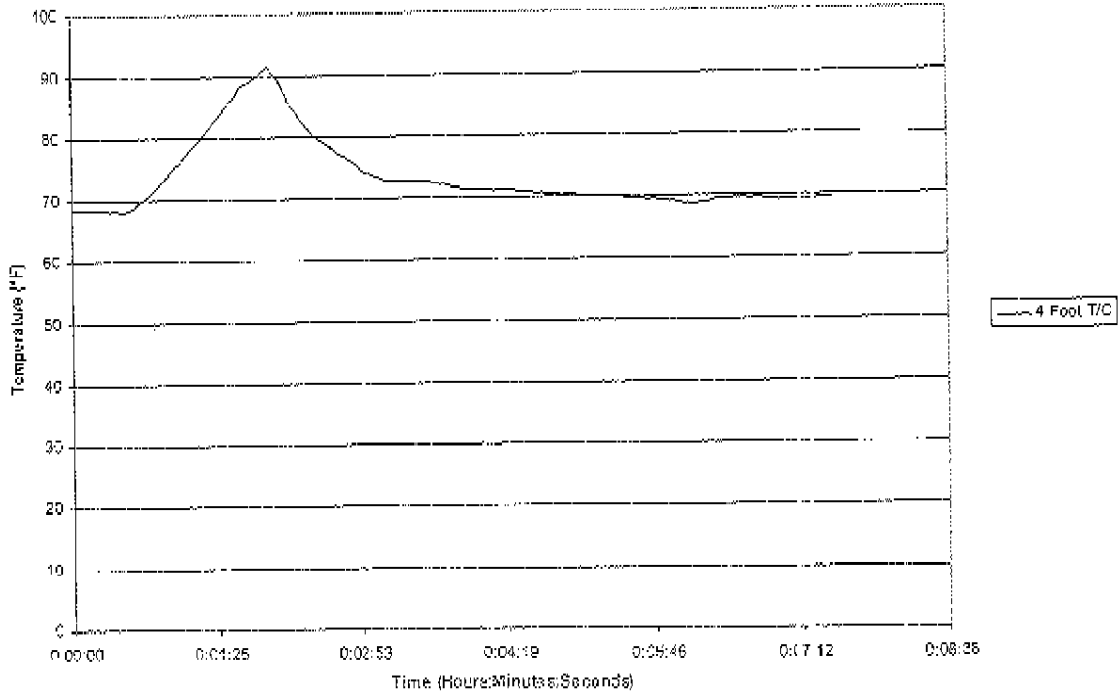
Report No.: 03-0217-5067K
Page 7 of 13



HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

Report No.: 03-0217-5067K
Page 8 of 13

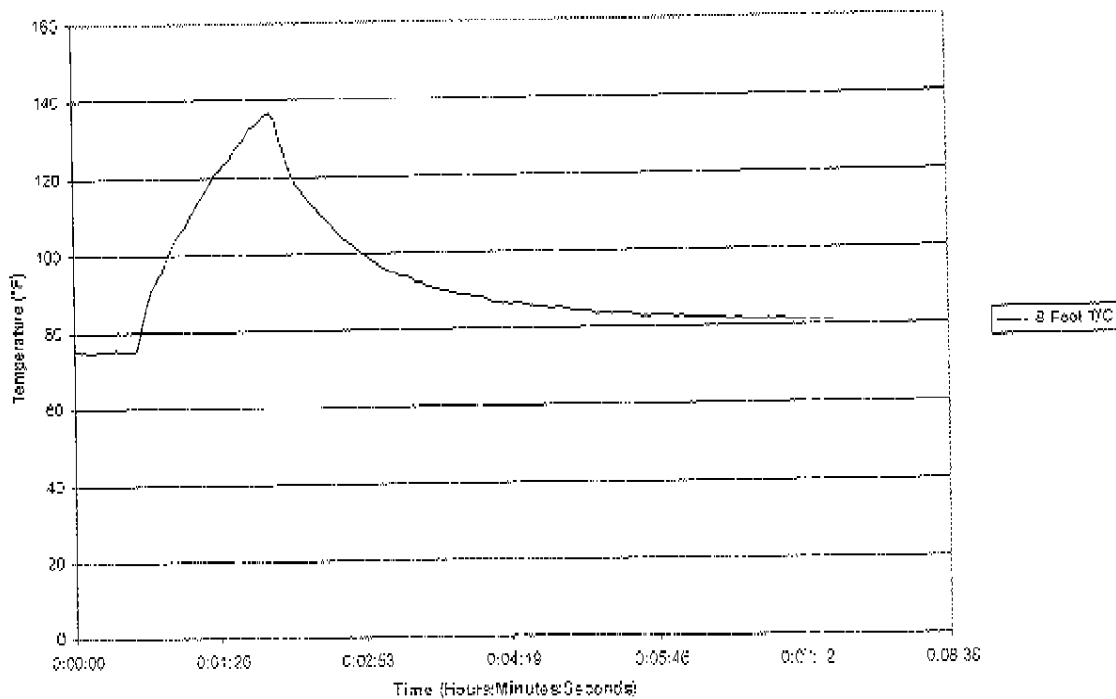
4-Foot Thermocouple Temperature



HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

Report No.: 03-0217-5067K
Page 9 of 13

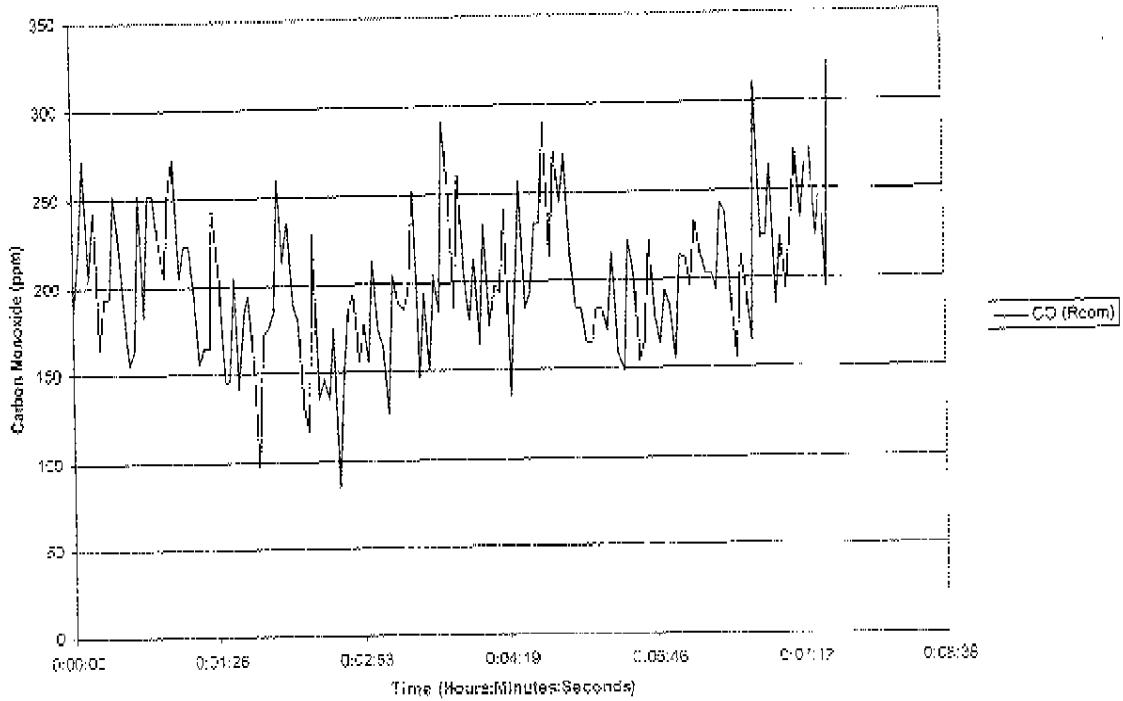
8-Foot Thermocouple Temperature



HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

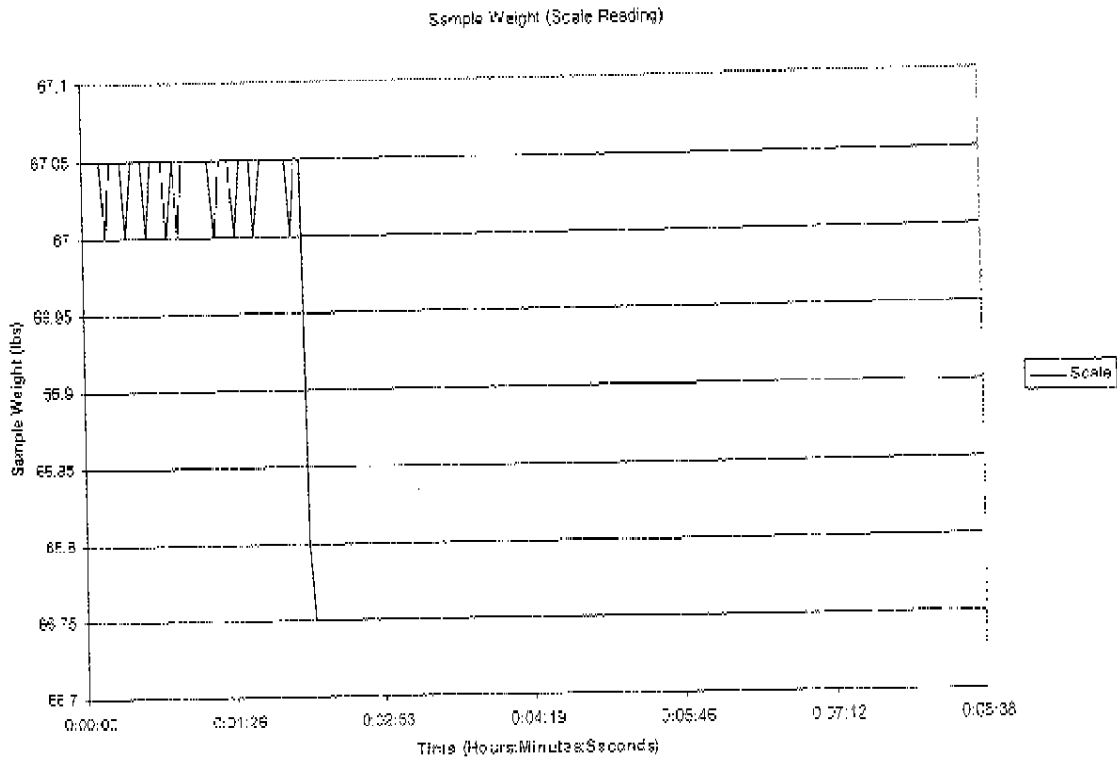
Report No.: 03-0217-5067K
Page 10 of 13

Room Carbon Monoxide



HIGH POINT FURNITURE INC.
Date: June 10, 2003
P.O. No.: P706669

Report No.: 03-0217-5067K
Page 11 of 13



HIGH POINT FURNITURE INC.

Date: June 10, 2003

P.O. No.: P706669

Report No.: 03-0217-5067K

Page 13 of 13

TERMS AND CONDITIONS

The following terms and conditions apply to all work performed by ENTELA, Inc., and supercede and/or replace terms and conditions of client's purchase order unless specifically exempted in writing by an officer of ENTELA, Inc.

1. ENTELA, Inc. represents to the client that testing is done in accordance with standard procedures as applicable and that reported test results are accurate within generally accepted commercial ranges of accuracy, unless a specific measure of greater accuracy has been agreed to in writing by ENTELA, Inc. and the client.
2. ENTELA, Inc. reports apply only to the specific sample(s) tested under stated test conditions and test results are not necessarily indicative of the qualities of apparently identical or similar test or operating conditions. ENTELA, Inc. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from ENTELA, Inc. reports.
3. When ENTELA, Inc. performs services, its work and reports are not governed by the Uniform Commercial Code. Except as stated in Paragraph 1, ENTELA, Inc. disclaims all warrants of merchantability or fitness for a particular purpose. ENTELA, Inc. assumes no liability for incidental or consequential damages of any nature whatsoever.
4. The client shall not advertise or publish the name, the seal or servicemark, reports, test results, documentation or procedures of ENTELA, Inc. without written authorization from ENTELA, Inc. Any test reports provided to client by ENTELA, Inc. shall not be reproduced *except in full* without the approval of ENTELA, Inc. The client's actual or threatened failure to abide by this Paragraph 4 may result in legal action by ENTELA, Inc. for injunctive and other relief.
5. Payment for the services rendered is the obligation of the client issuing the purchase order or accepting the proposal. The obligation is not contingent on any specific result from ENTELA, Inc.'s services and may not be assigned without the written permission of ENTELA, Inc.
6. If services are to be supplied to a client who has not established credit with ENTELA, Inc., or in connection with a legal action, a retainer equal to the estimated cost is required with the order, which retainer may be applied at ENTELA, Inc.'s option to its final billings. The minimum retainer required for services to be performed in connection with a legal action is \$1,000.
7. If the service to be performed requires more than one (1) month for completion, ENTELA, Inc. will make monthly billings of the approximate percentage of the work completed each month, supplying with the interim invoice a progress report showing accomplishments to date. Terms of all invoices shall be net 30 days upon receipt of invoice.
8. If the client desires forensic testing services, the client must mark each test sample and supporting documents and the test authorization form conspicuously as "LEGAL". Unless otherwise indicated in writing, prices quoted or charged by ENTELA, Inc. do not include charges for any court appearance, records retrieval/storage, expert witness testimony, deposition, or affidavit, or preparation thereof, in connection with forensic testing services. Such charges will be computed at ENTELA, Inc.'s then prevailing hourly rates, plus expenses. All such charges must be prepaid by the client prior to such appearance, testimony, deposition or affidavit and, where required by law, advance court approval of charges must be obtained by the client at the client's expense.
9. In the event that ENTELA, Inc., as a result of an order or subpoena issued by a court, is called upon to produce or testify in respect to a report, it will advise the client of the fact and the time and place of the scheduled hearing, if reasonable advance notice is given to ENTELA, Inc. If the client has any objections to ENTELA, Inc. complying with such order or subpoena, it will be the client's obligation to present such objections to the court at or prior to the time specified in such order or subpoena, and to give timely notice to ENTELA, Inc. of the results.
10. ENTELA, Inc. shall purchase, and client agrees to sell and convey title to any and all parts, assemblies, or products submitted for testing and analysis to ENTELA, Inc. for the sum of \$1.00. Upon completion of testing and analysis any and all parts, assemblies or products used or consumed during the course of our work shall be sold to and title conveyed to Client for the sum of \$1.00. Sample(s) will be destroyed thirty (30) days after the date of the final report, unless the client indicates otherwise in writing before the expiration of said 30-day period. **Tested samples shall be returned F.O.B. origin; customer responsible for return charges and insurance against risk of loss or damage of goods.**
11. Prices quoted by ENTELA, Inc. are subject to change if not accepted by the client within thirty (30) days, or if the work involved is not commenced within forty-five (45) days of such acceptance through no fault of ENTELA, Inc.
12. ENTELA, Inc.'s liability for damage to or loss or destruction of the client's property while it is in the possession of ENTELA, Inc. will be limited to the amount ENTELA, Inc. has agreed to charge the client for the services.
13. Any order or agreement for testing services by ENTELA, Inc. may be terminated in writing by the client before completion thereof with ENTELA, Inc.'s written consent in which event the client shall pay to ENTELA, Inc. an amount to be determined by ENTELA, Inc. as being sufficient to reimburse ENTELA, Inc. for all direct and indirect costs and expenses, including (but not limited to) supplies, materials, labor, and overhead incurred with respect to the order or agreement through the date of termination.
14. ENTELA, Inc. shall not be liable for any failure or delay in performance which is caused in whole or in part by fire, flood, accident, riot, war, operation of law, government action, strikes or other labor disturbances, fuel shortages, or any other cause beyond the control of ENTELA, Inc.
15. All contracts between ENTELA, Inc. and the client shall be deemed to be made in and governed by the laws of the State of Michigan.
16. Should ENTELA, Inc. be required to subcontract any testing or other services, the client will be informed of such arrangement either verbally or in writing. ENTELA, Inc. shall have no liability for any deductions, inferences, or generalizations drawn by the client or others from subcontractor's data.
17. Should witness of testing or services on ENTELA, Inc. premises be requested, the client shall comply with all applicable safety regulations and precautions. Client shall supply, if requested, evidence of workers compensation coverage prior to visit.
18. It is the client's responsibility to understand the procedures utilized in the testing process. Any action taken by a client based on any consulting, recommendations, results, observations, conclusions, discussions, or data as provided by ENTELA is the sole responsibility of the client."

Rev 10/15/02

HIGH POINT FURNITURE INC.

Date: June 10, 2003

P.O. No.: P706669

Report No.: 03-0217-5067K

Page 12 of 13

