



KEEPING YOUR FACILITY UP TO SPEED
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Motor Shop Repairs

Job Number 97725

Prepared for 3M-Main Plant (10001)

310 Walter Road
Little Rock AR 72216

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Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Recondition Repair Report

FolderID: 97725
FormID: 9741232

3M-Main Plant (10001)
310 Walter Road
Little Rock, AR 72216

Performed By: Motor Shop LR 3
Date Completed: 2/8/2021

Priorities Found: ● 4 - High ● 11 - Good

General

1. Job Number	97725
2. Report Date	
3. Customer	3M

Name Plate Information

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4. Manufacturer



MARATHON



5. Model	9CS405TSTTS4027ANF2W
6. Serial Number	
7. Horsepower	100
8. KW	
9. Volts	230460
10. Amps	
11. RPM	1780
12. Frame	405TS
13. Enclosure	TEFC

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14. Cycles	60
15. Phase	3
16. Service Factor	1.15
17. Motor Mount Position	
Initial Inspection	
18. Number of Leads	12
19. Lead Length	16 Inches
20. Lead Size	4
● 21. Lead Condition	(P) Pass
22. Lead Markings	1-12
23. Lug Size, Condition, and Type	
24. Winding RTD's	
25. Winding Rtd's Condition	
26. Shaft Run Out	
27. Does Shaft Turn Freely	
28. Does Shaft Have Visible Damage	
29. Bearing Rtd's	(NA) Not Applicable
30. Bearing Rtd's Condition	(NA) Not Applicable
31. Contamination	
● 32. Frame Condition	(P) Pass
● 33. Fan Condition	(F) Fail

34. Broken or missing components	
<i>Replace Fan</i>	
Initial Electric Test	
35. Resistance to Ground	0 Mohm
36. Winding Resistance 1-2	
37. Winding Resistance 2-3	
38. Winding Resistance 1-3	
39. Resistive Imbalance	
40. Hi-Pot	
● 41. Surge Test	(F) Fail

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42. Stator Condition

rewind



43. Failure Location

Initial Rotor Inspection

44. Rotor Type

Cast aluminum



45. Air Gap <10% Variation

46. Number of Rotor Bars

52

47. Number of Broken Rotor Bars

0

● 48. Growler Test

(P) Pass

● 49. Rotor Condition

(P) Pass

Mechanical Inspection

50. Bearing Manufacture

SKF

51. Bearing DE Size

6313C3



52. Bearing DE Type

ball

53. DE Bearing Qty.

1



54. Bearing ODE Size

6313C3



55. Bearing ODE Type

ball

56. ODE Bearing Qty.

1

57. Insulated Bearing

no

58. Lubrication Type

grease

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59. Grease Condition	(NA) Not Applicable
60. Bearing Retainers	(Y) Yes
61. Shaft Grounding Device	(NA) Not Applicable
62. DE Seal	
63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	
Root Cause of Failure	
66. Component Failure	ODE BEARING
67. Cause of Failure	No Grease



68. Comments	
69. Service Technician	RW
Machine Fit Inspection Report	
70. Shaft Run Out	
71. Initial Shaft Run Out	
72. Final Shaft Run Out	
73. DE Bearing Shaft Fit	(P) Pass
74. DE Initial Shaft Bearing Fit Size 1	2.56 "
75. DE Initial Shaft Bearing Fit Size 2	2.56 "
76. DE Initial Shaft Bearing Fit Size 3	2.56 "
77. DE Final Shaft Bearing Fit Size 1	

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78. DE Finial Shaft Bearing Fit Size 2	
79. DE Finial Shaft Bearing Fit Size 3	
80. ODE Bearing Shaft Fit	(F) Fail





81. ODE Initial Shaft Bearing Fit Size 1	2.5589 "
82. ODE Initial Shaft Bearing Fit Size 2	2.5589 "
83. ODE Initial Shaft Bearing Fit Size 3	2.5589 "
84. ODE Finial Shaft Bearing Fit Size 1	2.5597 "



85. ODE Finial Shaft Bearing Fit Size 2	2.5596 "
86. ODE Finial Shaft Bearing Fit Size 3	2.5596 "
87. DE Air Seal Shaft Fit	
88. DE Initial Air Seal Shaft Size	
89. DE Final Air Seal Shaft Size	
90. ODE Air Seal Shaft Fit	
91. ODE Initial Air Seal Shaft Size	
92. ODE Final Air Seal Shaft Size	
93. DE Endbell Fit	(P) Pass
94. DE Initial Endbell Fit Size 1	5.511 "
95. DE Initial Endbell Fit Size 2	5.511 "
96. DE Initial Endbell Fit Size 3	5.511 "
97. DE Final Endbell Fit Size 1	
98. DE Finial Endbell Fit Size 2	
99. DE Final Endbell Fit Size 3	

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100. DE Endbell Fit Insulated	(NA) Not Applicable
101. DE Endbell Air Seal Fit	
102. Initial Endbell Air Seal Fit Size	
103. Final Endbell Air Seal Fit Size	
● 104. ODE Endbell Fit	(F) Fail
	
105. ODE Initial Endbell Fit Size 1	"
106. ODE Initial Endbell Fit Size 2	
107. ODE Initial Endbell Fit Size 3	
108. ODE Final Endbell Fit Size 1	5.5124 "



109. ODE Final Endbell Fit Size 2	5.5124 "
110. ODE Final Endbell Fit Size 3	5.5122 "
111. ODE Endbell Fit Insulated	
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Final Endbell Seal Fit Size	
● 115. Foot Flatness	(P) Pass
116. Foot Condition	
● 117. Flange Condition	(P) Pass
118. Service Technician	RW
Balancing Report	
119. Balance Type	
120. Balance Operating Speed	

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121. Start Left End	
122. Start Right End	
123. Balancing Specification	
124. Finish Left End	
125. Finish Right End	
126. Service Technician	
Assembly and Final Test	
127. Meggar Testing Reading	75.90000000000001 Mohm



● 128. Surge Test	(P) Pass
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129. Hi-Pot
130. Winding Resistance 1-2
131. Winding Resistance 2-3
132. Winding Resistance 1-3

133. Test Run Voltage Phase A

457 Volts



134. Test Run Amps A

33.3 Amps

135. Test Run Voltage Phase B

455 Volts



136. Test Run Amps B

32.2 Amps

137. Test Run Voltage Phase C

460 Volts



138. Test Run Amps C

32.2 Amps

139. DE Horizontal Vibration Reading

140. DE Vertical Vibration Reading

141. DE Axial Vibration Reading

142. ODE Horizontal Vibration Reading

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143. ODE Vertical Vibration Reading
144. ODE Axial Vibration Reading
145. Ambient Temp at start of Test Run
146. Temp at 5 minutes
147. Temp at 10 minutes
148. Temp at 15 minutes
149. Temp at 20 minutes
150. Temp at 25 minutes
151. Temp at 30 minutes
152. Temp at 35 minutes
153. Temp at 40 minutes
154. Temp at 45 minutes
155. Temp at 50 minutes
156. Temp at 55 minutes
157. Temp at 60 minutes
<div> <div></div> <div>158. Motor Paint</div> <div></div> </div> <div>(P) Pass</div>



159. Service Technician	RW
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Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Random Coil Rewind Report

FolderID: 97725
FormID: 9954041

3M-Main Plant (10001)
310 Walter Road
Little Rock, AR 72216

Priorities Found: **6 - Good**

General

1. Job Number
2. Report Date
3. Customer

Name Plate Information

- | | |
|--------------------------|------------------|
| 4. Manufacturer | Marathon |
| 5. Model | 9C405TFS907AN-F2 |
| 6. Serial Number | MB863950-3/22-02 |
| 7. Horsepower | 100 HP |
| 8. KW | |
| 9. Volts | 460 Volts |
| 10. Amps | 114 Amps |
| 11. RPM | 1780 RPM |
| 12. Frame | 405TS |
| 13. Enclosure | TEFC |
| 14. Cycles | 60 HZ |
| 15. Phase | 3 PH |
| 16. Service Factor | |
| 17. Motor Mount Position | |

Initial Inspection

- | | |
|------------------------------------|-----------|
| 18. Number of Leads | 12 |
| 19. Lead Length | 18 Inches |
| 20. Lead Size | 6 |
| 21. Lead Condition | (P) Pass |
| 22. Lead Markings | 1-12 |
| 23. Lug Size, Condition, and Type | |
| 24. Winding RTD's | |
| 25. Winding Rtd's Condition | |
| 26. Shaft Run Out | |
| 27. Does Shaft Turn Freely | |
| 28. Does Shaft Have Visible Damage | |
| 29. Bearing Rtd's | |
| 30. Bearing Rtd's Condition | |
| 31. Contamination | |
| 32. Frame Condition | |
| 33. Fan Condition | |
| 34. Broken or missing components | |

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Initial Electric Test

- 35. Resistance to Ground
- 36. Winding Resistance 1-2
- 37. Winding Resistance 2-3
- 38. Winding Resistance 1-3
- 39. Resistive Imbalance
- 40. Hi-Pot
- 41. Surge Test
- 42. Stator Condition
- 43. Failure Location

Initial Rotor Inspection

- 44. Rotor Type
- 45. Air Gap <10% Variation
- 46. Number of Rotor Bars
- 47. Number of Broken Rotor Bars
- 48. Growler Test
- 49. Rotor Condition

Mechanical Inspection

- 50. Bearing Manufacture
- 51. Bearing DE Size
- 52. Bearing DE Type
- 53. DE Bearing Qty.
- 54. Bearing ODE Size
- 55. Bearing ODE Type
- 56. ODE Bearing Qty.
- 57. Insulated Bearing
- 58. Lubrication Type
- 59. Grease Condition
- 60. Bearing Retainers
- 61. Shaft Grounding Device
- 62. DE Seal
- 63. DE Seal Type/Size
- 64. ODE Seal
- 65. ODE Seal Type/Size

Root Cause of Failure

- 66. Component Failure
- 67. Cause of Failure
- 68. Comments
- 69. Service Technician

Stator Winding

- | | |
|---------------------|---------|
| 70. Core Length | 8.75 " |
| 71. Core ID | 11 " |
| 72. Back Iron Depth | 1.375 " |
| 73. Slot Depth | 1.5 " |
| 74. Tooth Width | 0.25 " |
| 75. Number of Vents | |
| 76. Vent Width | |

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77. Before Burnout Core loss	(P) Pass
78. Flux Before Burnout	
79. Watts before burnout	
80. Watts loss per lb. before burnout	
81. After Burnout Core Loss	(P) Pass
82. Flux After burnout	
83. Watts After Burnout	
84. Watts loss per lb After Burnout	
85. Core Iron Condition	(P) Pass
86. RTD's	
87. RTD's Reading	
88. Motor Heaters	
89. Heater Qty.	
90. Heater Voltage	
91. Heater Wattage	
92. Thermistors	
93. Number of Poles	4
94. Slots	60
95. Number of Coils	60
96. Coil Weight	150 Lbs.
97. Lead Markings 1-12	
98. Grouping 12 OF 5	
99. Multiple Wires	(Y) Yes
100. Wire Size 5#16 5#18	
101. Turns per coil	9
102. Pitch 1 to:	13
103. Connection 2OR4CIR	
104. Lead Length	18 "
105. Lead Size	#6
106. Number of Leads	12
107. Megger Reading After Rewind	
108. Coil Machine Slot	
109. Coil Machine Tip	
110. Coil Machine Pitch	
111. Hi Pot Reading After Rewind	
112. Surge Pattern After Rewind	(P) Pass
113. Service Technician	RW
Machine Fit Inspection Report	
114. Shaft Run Out	
115. Initial Shaft Run Out	
116. Final Shaft Run Out	
117. DE Bearing Shaft Fit	
118. DE Initial Shaft Bearing Fit 1	

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119. DE Initial Shaft Fit
120. DE Finial Shaft Bearing Fit 1
121. DE Initial Shaft Bearing Fit 2
122. DE Finial Shaft Bearing Fit 2
123. DE Initial Shaft Bearing Fit 3
124. DE Finial Shaft Bearing Fit 3
125. ODE Bearing Shaft Fit
126. ODE Initial Shaft Bearing Fit 1
127. ODE Finial Shaft Bearing Fit 1
128. ODE Initial Shaft Bearing Fit 2
129. ODE Finial Shaft Bearing Fit 2
130. ODE Initial Shaft Bearing Fit 3
131. ODE Finial Shaft Bearing Fit 3
132. DE Air Seal Shaft Fit
133. DE Initial Air Seal Shaft Size
134. DE Final Air Seal Shaft Size
135. ODE Air Seal Shaft Fit
136. ODE Initial Air Seal Shaft Size
137. ODE Final Air Seal Shaft Size
138. DE Endbell Fit
139. DE Initial Endbell Fit Size 1
140. DE Final Endbell Fit Size 1
141. DE Initial Endbell Fit Size 2
142. DE Finial Endbell Fit Size 2
143. DE Initial Endbell Fit Size 3
144. DE Final Endbell Fit Size 3
145. DE Endbell Fit Insulated
146. DE Endbell Air Seal Fit
147. Initial Endbell Air Seal Fit Size
148. Finial Endbell Air Seal Fit Size
149. ODE Endbell Fit
150. ODE Endbell Fit Insulated
151. ODE Endbell Air Seal Fit
152. ODE Initial Endbell Seal Fit Size
153. ODE Finial Endbell Seal Fit Size
154. Foot Flatness
155. Foot Condition
156. Flange Condition
157. Service Technician
Balancing Report
158. Balance Type
159. Balance Operating Speed
160. Start Left End
161. Start Right End
162. Balancing Specification
163. Finish Left End
164. Finish Right End

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165. Service Technician
Assembly and Final Test
166. Meggar Testing Reading
167. Surge Test
168. Hi-Pot
169. Winding Resistance 1-2
170. Winding Resistance 2-3
171. Winding Resistance 1-3
172. Test Run Voltage Phase A
173. Test Run Amps A
174. Test Run Voltage Phase B
175. Test Run Amps B
176. Test Run Voltage Phase C
177. Test Run Amps C
178. DE Horizontal Vibration Reading
179. DE Vertical Vibration Reading
180. DE Axial Vibration Reading
181. ODE Horizontal Vibration Reading
182. ODE Vertical Vibration Reading
183. ODE Axial Vibration Reading
184. Ambient Temp at start of Test Run
185. Temp at 5 minutes
186. Temp at 10 minutes
187. Temp at 15 minutes
188. Temp at 20 minutes
189. Temp at 25 minutes
190. Temp at 30 minutes
191. Temp at 35 minutes
192. Temp at 40 minutes
193. Temp at 45 minutes
194. Temp at 50 minutes
195. Temp at 55 minutes
196. Temp at 60 minutes
197. Motor Paint
198. Service Technician



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5. **DELIVERY OF GOODS AND/OR SERVICES.** Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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8. **WARRANTIES.** Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

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10. **SEVERABILITY.** The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
12. **ABANDONED EQUIPMENT.** Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
14. **NONWAIVER.** No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
15. **ASSIGNMENT.** The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
16. **NO INDIVIDUAL LIABILITY.** Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and Hi-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between Hi-Speed and the Buyer, even if the Hi-Speed owner, director, officer or employee is or could be construed to be a party to such contract.