Infrared Thermographic Report
For

Report done by
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Level II Thermographer

Sample Customer
What is Infrared?

- IR is part of the electromagnetic spectrum discovered in the 1800’s
- By William Hershel

IR 101

- The IR imager sees emitted energy in the IR spectrum range from (shortwave) 3-5 microns (longwave) 7-13 microns.
- The amount of energy is seen through the imager. The reason everything thing is colored is to give the eye something to interpret.
- Interpretation is key with Thermography.

How Infrared can help Commissioning

Commissioning is the process where by the system is put through its sequence of operation at its design. There are many tools and techniques to start up and check out systems. Buildings all have their own special issues not in the design, that’s why we commission.

- Infrared Thermography can help as a great tool to help locate and even show why certain things don’t work properly.

Building HVAC 101

Heating Ventilation & Air Conditioning

Buildings are conditioned by adding or removing heat from a given space through a medium. In this case the medium is air. The air is circulated through a refrigerated coil or DX coil or chilled water coil, which removes heat and transfers the heat through the refrigerant/water to the condenser coil/cooling tower, via a fan/pump. Dirty filters or poor air flow causes coils to freeze and Compressor failure.

Why can we see water?

Water is a conductor and transfers heat. Heat or the lack of heat is what thermal imagers see. When water, a conductor, contacts a non-conductor such as wood or sheetrock-we see the heat transfer which can be colder or hotter than the surface of which it contacts. The color of choice for cold is blue and red for hot.
TABELS OF CONTENTS

SURVEY WAS DONE WITH ESCORT name here (OWNER REPRESENTATIVE).
ANY PANELS NOT WITNESSED OR POWERED AT THE TIME OF SURVEY IS
NOT RESPONSIBILITY OF THERMOGRAPHER.
PANELS ESCORTED TOO ARE IN ORDER OF SURVEY:

1. CAB 102
2. CAB 103
3. CAB 104
4. CAB 105
5. CAB 106
6. CAB 107
7. CAB 201
8. CAB 202
9. CAB 203
10. CAB 204
11. CAB 205
12. CAB 206
13. CAB 207
14. CAB 301
15. CAB 302
16. CAB 303
17. CAB 304
18. CAB 305
19. CAB 306
20. CAB 307
21. CAB 308
22. CAB 309
23. CAB 310
24. ZONE LINE 4 MCC
25. CAB 401
26. CAB 402
27. CAB 403
28. CAB 404
29. CAB 405
30. CAB 406
31. DRYER 0002 HOPER
32. CAB 112
33. CAB 113
34. CAB 114
35. CAB 115
36. CAB 116
37. CAB PANEL UNMARKED NEXT TO 118
38. CAB 119
39. CAB 121
40. CAB 221
41. CAB 219
42. LINE 2 ANNEALING OVEN
43. CAB 216
44. CAB LINE 2 GODET 2
45. CAB 213
46. LINE 3 DIST PANEL
47. CAB 212
48. CAB 214
49. LINE 3 GODET 3
50. CAB 318
51. CAB 317
52. LINE 3 GODET 4
53. LINE 3 GODET 5
54. LINE 4 GODET 5
55. LINE 4 ANNEALING OVEN
56. LINE 4 GODET 3 OIL HEATER
57. LINE 4 GODET 1
58. LINE 4 GODET 2
59. DRYER 4 MAIN LINE 4
60. LINE 3 DRYER MAIN
61. LINE 2 DRYER 2
62. LINE 1 DRYER 1
63. CHILL WATER PANEL THERMAL CARE
64. LIGHTING 1 & 2
65. MAIN DUCT DISTRUBUTION
66. GRINDER 2 SOTAKE
67. GRINDING ROOM PANEL
68. LINE 3 GRINDER PANEL
69. CAB 122
70. CAB 222

ACTION: NEXT SHUT DOWN IMMEDIATE
Description: CAB 105 CHECK LOAD TN162 CURRENT TRANS

ELECTRICAL SURVEY
This report does not make any warranties, expressed or implied concerning
The contents of this report. Furthermore, neither the company nor any of its employees shall be liable in any manner for personal
injury or property damage or loss of any kind arising from or connected with this survey or failure to inspect.
This report only reports anomalies that were energized at the time of the report. Owner is responsible for repairs and adjustments.
This report does not purport to set forth all hazards nor indicate that other hazards do not exist.
Description: **CAB 106 CHECK NEUTRAL CONNECTION**
Description: **CAB 205 CHECK HEATER BLOC CONNECTIONS**
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Description: **CAB 206 CHECK LOAD**
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**Description:** CAB 304 CHECK FUSE CONNECTION
Description: CAB 8 CHECK CONNECTIONS
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Description: CAB 8 FUSE
Description: CAB 8

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Description: CAB 401 MAJOR PROBLEM CORRECT IMMEDIATELY

MELTING BUSS
Description: **CAB 115 TRANSFORMER CHECK LOAD**
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Description: PANEL NEXT TO CAB 118 CHECK CONNECTIONS
Description: **LINE 2 ANNEALING OVEN CHECK CONNECTIONS**
Description: **CAB 214 CHECK CONNECTIONS**
Description: **LINE 4 GODET 5 CHECK CONNECTIONS**
Description: LINE 4 GODET 3 OIL HEATER VISIBLE BURN
Description: **LINE 3 DRYER MAIN PANEL FUSE CLIP**

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Description: **LINE 3 DRYER MAIN CHECK CONNECTION**
**Description:** Line 2 Dryer 2 Fuse Check Load

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Description: LINE 1 DRYER 1 CHECK LOAD AND CONNECTIONS

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Description: **CAB 122 WINDER WIRE OR CONNECTION #10**

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Description: **CAB 222 WINDER WIRE NUT CONNECTION**

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