# Table of Contents

## CHAPTER 1. ADMINISTRATIVE PROCEDURES

1. REPORTING REQUIREMENTS. . . . . 1
2. PRECONSTRUCTION NOTICE. . . . . 1
3. FAA ACKNOWLEDGMENT. . . . . 1
4. SUPPLEMENTAL NOTICE. . . . . 1
5. MODIFICATIONS AND DEVIATIONS. . . . . 1
6. FCC APPROVAL. . . . . 2
7. METRIC UNITS. . . . . 2

## CHAPTER 2. GENERAL

20. OBJECTS TO BE MARKED AND LIGHTED. . . . . 3
21. GUYED STRUCTURES. . . . . 3
22. MARKING AND LIGHTING EQUIPMENT. . . . . 3
23. LIGHT FAILURE NOTIFICATION. . . . . 3
24. NOTIFICATION OF RESTORATION. . . . . 3
25. FCC REQUIREMENT. . . . . 3

## CHAPTER 3. MARKING

30. PURPOSE. . . . . 5
31. PAINT COLORS. . . . . 5
32. STANDARDS. . . . . 5
33. PATTERNS. . . . . 5
34. MARKERS. . . . . 6
35. UNUSUAL COMPLEXITIES. . . . . 7
36. OMISSION OR ALTERNATIVES TO MARKING. . . . . 7

## CHAPTER 4. LIGHTING

40. PURPOSE. . . . . 9
41. STANDARDS. . . . . 9
42. SYSTEM CONFIGURATIONS. . . . . 9
43. CATENARY LIGHTING. . . . . 9
44. RATED LAMP VOLTAGE. . . . . 10
45. NONSTANDARD LIGHTS. . . . . 10
46. PLACEMENT FACTORS. . . . . 10
47. MONITORING OBSTRUCTION LIGHTS. . . . . 10
48. ICE SHIELDS. . . . . 11
49. DISTRACTION. . . . . 11

## CHAPTER 5. RED OBSTRUCTION LIGHTING STANDARDS

50. PURPOSE. . . . . 13
51. STANDARDS. . . . . 13
52. CONTROL DEVICE. . . . . 13
53. POLES, TOWERS, AND SIMILAR SKELETAL STRUCTURES. . . . . 13
54. CHIMNEYS, FLARE STACKS, AND SIMILAR SOLID STRUCTURES. . . . . 14
55. WIND TURBINE STRUCTURES. . . . . 14
56. GROUP OF OBSTRUCTIONS. . . . . 14
57. ALTERNATE METHOD OF DISPLAYING OBSTRUCTION LIGHTS. . . . . 14
58. PROMINENT BUILDINGS AND SIMILAR EXTENSIVE OBSTRUCTIONS. . . . . 14

## CHAPTER 6. MEDIUM INTENSITY FLASHING WHITE LIGHTING SYSTEM STANDARDS

60. PURPOSE. . . . . 17
61. STANDARDS. . . . . 17
62. RADIO AND TELEVISION TOWERS AND SIMILAR SKELETAL STRUCTURES. . . . . 17
63. CONTROL DEVICE. . . . . 17
64. CHIMNEYS, FLARE STACKS, AND SIMILAR SOLID STRUCTURES. . . . . 17
65. GROUP OF OBSTRUCTIONS. . . . . 17
66. SPECIAL CASES. . . . . 18
67. PROMINENT BUILDINGS AND SIMILAR EXTENSIVE OBSTRUCTIONS. . . . . 18

## CHAPTER 7. HIGH INTENSITY FLASHING WHITE LIGHTING SYSTEMS STANDARDS

70. PURPOSE. . . . . 19
71. STANDARDS. . . . . 19
72. CONTROL DEVICE. . . . . 19
73. UNITS PER LEVEL. . . . . 19
74. INSTALLATION GUIDANCE. . . . . 19
75. ANTENNA OR SIMILAR APPURTENANCE LIGHT. . . . . 20
76. CHIMNEYS, FLARE STACKS, AND SIMILAR SOLID STRUCTURES. . . . . 20
77. RADIO AND TELEVISION TOWERS AND SIMILAR SKELETAL STRUCTURES. . . . . 20
78. HYPERBOLIC COOLING TOWERS. . . . . 20
79. PROMINENT BUILDINGS AND SIMILAR EXTENSIVE OBSTRUCTIONS. . . . . 20

## CHAPTER 8. DUAL LIGHTING WITH RED/MEDIUM INTENSITY FLASHING WHITE SYSTEMS

80. PURPOSE. . . . . 23
81. INSTALLATION. . . . . 23
82. OPERATION. . . . . 23
83. CONTROL DEVICE. . . . . 23
84. ANTENNA OR SIMILAR APPURTENANCE LIGHT. . . . . 23
85. OMISSION OF MARKING. . . . . 23

## CHAPTER 9. DUAL LIGHTING WITH RED/HIGH INTENSITY FLASHING WHITE SYSTEMS

90. PURPOSE. . . . . 25
91. INSTALLATION. . . . . 25
92. OPERATION. . . . . 25
93. CONTROL DEVICE. . . . . 25
94. ANTENNA OR SIMILAR APPURTENANCE LIGHT. . . . . 25
95. OMISSION OF MARKING. . . . . 25

## CHAPTER 10. MARKING AND LIGHTING OF CATENARY AND CATENARY SUPPORT STRUCTURES – MEDIUM INTENSITY FLASHING WHITE LIGHTS

100. PURPOSE. . . . . 27
101. STANDARDS. . . . . 27
102. CONTROL DEVICE. . . . . 27
103. AREA SURROUNDING CATENARY SUPPORT STRUCTURES. . . . . 27
104. THREE OR MORE CATENARY SUPPORT STRUCTURES. . . . . 27
105. CATENARY LIGHTING. . . . . 28

## CHAPTER 11. MARKING AND LIGHTING OF CATENARY AND CATENARY SUPPORT STRUCTURES – HIGH INTENSITY FLASHING WHITE LIGHTS

110. PURPOSE. . . . . 29
111. STANDARDS. . . . . 29

112. CONTROL DEVICE. . . . . 29
113. AREA SURROUNDING CATENARY SUPPORT STRUCTURES. . . . . 29
114. THREE OR MORE CATENARY SUPPORT STRUCTURES. . . . . 29
115. CATENARY LIGHTING. . . . . 29

**CHAPTER 12. MARKING AND LIGHTING MOORED BALLOONS AND KITES**

120. PURPOSE. . . . . 31
121. STANDARDS. . . . . 31
122. MARKING. . . . . 31
123. LIGHTING. . . . . 31
124. OPERATIONAL CHARACTERISTICS. . . . . 31

**CHAPTER 13. MARKING AND LIGHTING EQUIPMENT AND INFORMATION**

130. PURPOSE. . . . . 33
131. PAINT STANDARD. . . . . 33
132. AVAILABILITY OF SPECIFICATIONS. . . . . 33
133. TOLERANCE CHART. . . . . 33
134. LIGHTS AND ASSOCIATED EQUIPMENT. . . . . 33
135. AVAILABILITY. . . . . 33

**APPENDIX 1. Specifications for Obstruction Lighting Equipment Classification** . . . . . 33

**APPENDIX 2. Miscellaneous**

1. RATIONALE FOR OBSTRUCTION LIGHT INTENSITIES. . . . . A2-1
2. DISTANCE VERSUS INTENSITIES. . . . . A2-1
3. CONCLUSION. . . . . A2-1
4. DEFINITIONS. . . . . A2-1
5. LIGHTING SYSTEM CONFIGURATION. . . . . A2-1