



U.S. Department
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Federal Aviation
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FILE

Advisory Circular

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Subject:

Date: 1/30/84

AC No: 150/5345-1L

Initiated by: AAS-200

Change:

APPROVED AIRPORT LIGHTING EQUIPMENT

1. PURPOSE. This advisory circular contains a listing of manufacturers qualified to supply airport lighting equipment for projects funded under Federal airport assistance programs.
2. CANCELLATION. This advisory circular cancels AC 150/5345-1K, Approved Airport Lighting Equipment, dated July 14, 1983.
3. PRINCIPAL CHANGES. Several additions and deletions have been made to the lists of qualified manufacturers. The revised list reflects changes made through December 31, 1983.
4. REQUESTS FOR INFORMATION. Further information concerning qualification approval may be obtained from the Federal Aviation Administration, Office of Airport Standards, Attention: AAS-200, Washington, D.C. 20591, telephone (202) 426-3824.

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Director, Office of Airport Standards

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L-801 - Beacons
(AC 150/5345-12C)

Manufacturer	Manufacturer's catalog number					
	Type L-801A		Type L-801S		Type L-801H	
	Class 1	Class 2	Class 1	Class 2	Class 1	Class 2
ADB-ALNACO, Inc.		RB2,RB4 RB6-750 RB6-1000				RB-3 (044D0808)
Appollo Lighting Co.		0200 Series		0200 Series		
National Airport Equipment Co.		N-1000A N-1000A4		N-1000S		

L-807 - Wind Cones
(AC 150/5345-27B)

Manufacturer	Size	Manufacturer's catalog number	
		Lighted	Unlighted

L-810 - Lights, Obstruction
(AC 150/5345-43C)

Manufacturer	Manufacturer's catalog number	
	Single unit	Double unit
Crouse-Hinds Co.	40940, 50033 (4)	50021 (4)
Godfrey Engineering Co.	GEA-60-1,-3 (11) GEA-60-2,-4 (30) (32)	GEA-61-1,-3 (11) GEA-61-2,-4 (30) (32)
Hubbell, Harvey, Inc.	BYMB-3600-AHQ (30)	BYMB-36002-AHQ (30)
TWR Lighting, Inc.	OL-1 (32)	OL-2 (32)

L-821 - Panel, Airport Lighting Control
(AC 150/5345-3C)

Manufacturer	Manufacturer's catalog number
ADB-ALNACO, Inc.	L-821 - all types, classes, styles
Airport Lighting Control Co.	L-821 - type I, all classes, styles 1 & 2
Associated Engineering Co.	201-204 (821 series) - type I, all classes, style 1; type I, Class F, S, style 2; type II, class F, styles 1,3.
Eaton Corporation	L-821 - type I, II, all classes, styles 2,3
Universe, Inc.	821-1 - type I, all classes, style 1 821-F - type II, all classes, style 3

L-823 - Connectors, Cable

L-824 - Cable, Underground Electrical
(AC 150/5345-7D)

Manufacturer	Conductors		Type	Rating (volts)	Manufacturer's identification marking
	S	M			
American Insulated Wire Co.	X	X	A,B	600	FAA-L824 Type A,B
	X		As,Bs	5000	FAA-L824 Type A,B
	X		B	5000	FAA-L824 Type B
	X	X	C	600	FAA-L824 Type C
	X		Cs	5000	FAA-L824 Type C
Anaconda-Ericsson, Inc.	X		B	600	Durasheath EP
	X		B	5000	Durasheath EP
	X		C	600	Durasheath XLP
Carol Cable Co.	X		C	600	L-824-C
	X		C	5000	L-824-C
CCS Hatfield Wire & Cable Co.	X		Cs	5000	Hatfield Permalene XP
	X		C	600	Permalene XP
Collyer Insulated Wire Co.	X	X	C	600	XLP
	X	X	Cs	5000	XLP
Essex Group	X		C	600	L-824 Type C
	X		C	5000	L-824 Type C
General Electric Co.	X		C	600	Vulkene
		X	C	600	Vulkene Flamenol
	X		C	5000	Vulkene
		X	Cs	5000	Vulkene Flamenol
Hendrix Wire & Cable Corp.	X		C	600	FAA L-824 Type C
	X		C	5000	FAA L-824 Type C
ITT Royal Electric Division	X		C	5000	FAA L-824 Type C
Kerite Co., The	X	X	A	5000	Kerite HTK
North American Phillips Corp.	X		C	5000	Dravulteen (XLPE)

L-824 - Cable, Underground Electrical
 (AC 150/5345-7D)
 (cont'd)

Manufacturer	Conductors		Type	Rating (volts)	Manufacturer's identification marking
	S	M			
Pirelli Cable Corp.	X		B	600	EPR/PVC & EPR/N
	X		B	5000	EPR unshielded
	X	X	Bs	5000	EPR
	X		C	600	Type USE, RHH, RHW
		X	C	600	XLPE
	X		C	5000	XLPE unshielded
	X	X	Cs	5000	XLPE
Reynolds Metals Co.	X	X	Cs	5000	XLP
Rockbestos Co., The	X		A	600	L-824 Type A
	X		B	5000	L-824 Type B
	X		C	600	L-824 Type C
	X		C	5000	L-824 Type C
Rome Cable Co.	X		B	600	Rome EPR
	X	X	C	600	Rome XLP, FR-XLP, XHHW Cond.
	X	X	Cs	5000	Rome XLP
	X		B	5000	Rome EPR
Southwire Co.	X		C	600	FAA L-824 Type C
	X		C	5000	FAA L-824 Type C
Triangle PWC, Inc.	X		C	600	Everene
		X	C	5000	Everene

NOTES:

- (1) Conductors of 5000-volt cable may be either 7-strand or 19-strand.
- (2) In the column "Conductors", s indicates single conductor and m indicates multiple conductor.
- (3) All cables are nonshielded except s after the "Type" letter indicates both nonshielded and shielded.

L-828 - Regulators, Constant Current
(AC 150/5345-10D)

Manufacturer	Rating		Bright- ness steps	Primary switch	Manufacturer's catalog number
	KW	Out Amps			
Crouse-Hinds Co. (Air-cooled)	4	6.6	3,5	Yes	31000-4-Series
	7½	6.6	3,5	Yes	31000-7.5-Series
	10	6.6	3,5	Yes	31000-10-Series
(Oil-cooled)	10	6.6	5	Option	31060-10-Series
	15	6.6	5	Option	31060-15-Series
	20	6.6	5	Option	31060-20-Series
	20	20	5	Option	31060-21-Series
	30	6.6	5	Option	31060-30-Series
	30	20	5	Option	31060-31-Series
	50	20	5	Option	31060-50-Series
	70	20	5	Option	31060-70-Series
Hevi-Duty Electric (Air-cooled)	4	6.6	3	Yes	4L82810D Series
	7½	6.6	3	Yes	7L82810D Series
(Oil-cooled)	10	6.6	3,5	Yes	10L82810D Series
	15	6.6	3,5	Yes	15L82810D Series
	20	6.6	5	Yes	20L82810D Series
	20	20	5	Yes	20L82810D Series
	30	6.6	5	Yes	30L82810D Series
	30	20	5	Yes	30L82810D Series
	50	20	5	Yes	50L82810D Series
	70	20	5	Yes	70L82810D Series

L-830 - Isolation Transformers, 60 Hz
(AC 150/5345-47)

L-830			Manufacturer's catalog number		
Type	Watts	Amperes Pri/Sec	Amerace Corp. (Elastimold Div.)	Crouse-Hinds Company	ADB-ALNACO, Inc.
L-830-1	30/45	6.6/6.6	TA 045666-01	33001	83001-111
L-830-2	30/45	20/6.6	TA 045266-01		
L-830-3	65	6.6/6.6	TA 065666-01	33003	83003-111
L-830-4	100	6.6/6.6	TA 100666-01	33004	83004-111
L-830-5	100	20/6.6	TA 100266-01	33005	
L-830-6	200	6.6/6.6	TA 200666-01	33006	83006-111
L-830-7	200	20/6.6	TA 200266-01	33007	
L-830-8	300	6.6/20	TA 300626-01	33008	
L-830-9	300	20/20	TA 300226-01	33009	
L-830-10	300	6.6/6.6	TA 300666-01	33010	
L-830-11	300	20/6.6	TA 300266-01		
L-830-12	500	6.6/20	TA 500626-01		
L-830-13	500	20/20	TA 500226-01	33013	

L-831 - Isolation Transformers, 50 Hz
(AC 150/5345-47)

L-831			Manufacturer's catalog number	
Type	Watts	Amperes Pri/Sec	Amerace Corp. (Elastimold Div.)	Crouse-Hinds Co.
L-831-1	30/45	6.6/6.6	TA 045666-01	33001
L-831-2	30/45	20/6.6	TA 045266-01	
L-831-3	65	6.6/6.6	TA 065666-01	33003
L-831-4	100	6.6/6.6	TA 100666-01	33004
L-831-5	100	20/6.6		33005
L-831-6	200	6.6/6.6	TA 200665-01	33006
L-831-7	200	20/6.6	TA 200265-01	33007
L-831-8	300	6.6/20		
L-831-9	300	20/20	TA 300225-01	
L-830-10	300	6.6/6.6	TA 300665-01	

L-841 - Cabinet, Auxiliary Relay
(AC 150/5345-13)

Manufacturer	Manufacturer's catalog number
Airport Lighting Control Co.	6300, 6301, 6302, 6303
Associated Engineering Co.	714-841
Crouse-Hinds Co.	51503
Hughey & Phillips, Inc.	RC41

L-847 - Switch, Circuit Selector
(AC 150/5345-5A)

Manufacturer	Type	Class	Rating	Catalog no.
Co.	1,2,3,4	A,B	1,2	30847

L-849 - Lights, Runway End Identification
(AC 150/5345-51)

Manufacturer	Style	Manufacturer's catalog number
Flash Technology Corporation	F	FTS-412
	F	FTS-422
Godfrey Engineering Co.	A	GEA-20-100
	C	GEA-25-100
	E	GE-3836-003
Multi-Electric Mfg., Inc.	A	551325-M, 551325-S
	E	551327-M, 551327-S
Unitron International Systems	F	VGS-832

L-850 - Lights, Runway, In-pavement
(AC 150/5345-46)

Manufacturer	Type	Manufacturer's catalog number
ADB-ALNACO, Inc.	L-850A	44D0464 (29)
	L-850B	44D0469 (34)
	L-850E	44E0496 (21)
Crouse-Hinds Co.	L-850A	20065, 20075 (35) 20335 (15) 20065-LW, 20075-LW (49)
	L-850B	20355, 20360 (34)(40) 20370, 20365 (34)(40)
	L-850C	20250, 20255 (34)(40)
	L-850D	20260, 20265 (34)
	L-850E	20480 (34)
Multi-Electric Manufacturing, Inc.	L-850C	2950-300 (38)

L-851 - Visual Approach Slope Indicator
(AC 150/5345-28C)

Manufacturer	Manufacturer's catalog		
	Lamp housing	Adapter unit	
ADB-ALNACO, Inc.	44DO107A 44DO154A 44DO152A	44CO120A	
Crouse-Hinds Co.	25950-A 26000-A 25950-AV	26005-A 26600	26041-A
Hughey & Phillips, Inc.	VA382, VA384 VA38ST, VA38S	VA38A2 VA38A4	VACB6114
Multi-Electric Manufacturing, Inc.	5556C	5562C	5559

Pulsed Light Approach Slope Indicator

Manufacturer	Manufacturer's catalog number
DeVore Aviation Corporation	DA1001

L-852 - Lights, Taxiway, In-pavement
(AC 150/5345-46)

Manufacturer	Class	Type	Manufacturer's catalog number
ADB-ALNACO, Inc.	N	I	44DO422 (41)
	W	I	44DO422 (42)
	N	II	44DO423 (41)
	W	II	44DO423 (42)
	N	III	44DO424 (41)
	W	III	44DO424 (42)
	N	IV	44DO452 (41)
	W	IV	44DO452 (42)
Crouse-Hinds Co.	N	I	19506, 19508 (43), 19506-LW (50)
	W	I	19510, 19512 (44), 19510-LW (51)
	N	II	19505, 19507 (43), 19505-LW (50)
	W	II	19509, 19511 (44), 19509-LW (51)
	N	III	19515, 19516 (43), 19515-LW (50)
	W	III	19513, 19514 (44), 19513-LW (51)
	N	IV	19840, 19850 (43), 19850-LW (50)
	W	IV	19845, 19855 (44), 19855-LW (51)
	E*	Omni	20550, 20552 (40)

* Approved to Draft Circular AC 150/5345-46A

L-861 - Lights, Runway & Taxiway Edge, Medium Intensity
(AC 150/5345-48)

Manufacturer	Manufacturer's catalog number			
	Type L-861	Type L-861E	Type L-861SE	Type L-861T
ADB-ALNACO, Inc.	L-861-1,-3 (10)	L-861-1,-3 (11)		L-861T-1,-3 (10)
	L-861-2,-4 (12)			L-861T-2,-4 (13,14)
	RWL-MIL (10)	RWL-MIE (11)		TWL-MIL (10)
Airport Lighting Company	MRL-216,217 (10)	MRL-216,217 (11)		MRL-216 (10)
Crouse-Hinds Co.	ERL Model III (10,14)	ERL Model III (11)	40690,40775 (16)	ERL Model III (10,14)
	40675E 40680E (12)	40727 40770 (13)		40675E 40680E (13)

L-862 - Lights, Runway Edge, High Intensity
(AC 150/5345-48)

Manufacturer	Manufacturer's catalog number	
	Edge	Threshold/end
ADB-ALNACO, Inc.	L-862 (22)	L-862 (23)
Airport Lighting Co.	HRL-213 (22)	HRL-213 (23)
Crouse-Hinds Co.	48369 (22) 40722 (36)	48371 (23) 40722 (25)(28)
Godfrey Engineering, Inc.	GEA-10 (36)(26) GEA-15 (22)	GEA-10 (21) GEA-15 (23)
Hughey & Phillips, Inc.	HL-62 (22)	HL-62 (23)
Multi-Electric Manufacturing, Inc.	6283, 6293 (22) 6383, 6393 (36)	6287, 6297 (23) 6387, 6397 (21)
National Airport Equipment Co.	H-900 (22) H-910 (36)	H-900 (23) H-910 (21)

L-866 - Lights, Obstruction, Medium Intensity
(AC 150/5345-43C)

Manufacturer	Manufacturer's catalog number	
	White lights	Red lights
Crouse-Hinds Co.		41257F
EG&G, Inc.	LS-161	
Flash Technology Corporation	FTB-301 FTB-317 FTB-119 FTB-319-2,-3	
TWR Lighting, Inc.		Type FB Beacon (48) A1, A2/3, A4/5 controllers

L-853 - Markers, Retroreflective
(AC 150/5345-39B)

Manufacturer	Manufacturer's catalog number	
	Centerline marker	Elevated marker
Amerace Corporation (Signal Products Division)	88 series 911 series	
Behrens Construction Co.		112 series
Carsonite International Corp.		SMD-300-A
National Airport Equipment Co.		RM series
Safe-Way Sign Co.		1A & 600 series
Unipar, Inc.		EVA series
Valley Illuminators, Inc.		AR-100 series

L-854 - Radio Controls
(AC 150/5345-49)

Manufacturer	Type	Manufacturer's catalog number
ADB-ALNACO, Inc.	T	RL-854
Control Industries, Inc.	T	RC-1T5A

L-856 - Lights, Obstruction, High Intensity
(AC 150/5345-43C)

Manufacturer	System	Manufacturer's catalog number
Flash Technology Corporation	A	FTB-205A-1
	B	FTB-205B-1
EG&G, Inc.	A	LS-158A
	B	LS-158B

L-858 - Signs, Taxiway Guidance
(AC 150/5345-44C)

Manufacturer	Type	Size	Style	Class	Mfgr's cat. no.
ATC International, Inc	L-858Y,R	1,2,3	2,3,4	1,2	90 series
Crouse-Hinds Co.	L-858Y,R,B	1,2,3,4	1,2,3	1	50,000 series
Gardner, T.J., Co.	L-858Y,R,B	1,2,3,4	1,2,3,4	1,2	G-L-858 series
Standard Signs, Inc.	L-858Y,R	1	1,2,3,4	1,2	S858CLT
	L-858Y,R	2	1,2,3,4	1,2	M858CLT
	L-858Y,R	3	1,2,3,4	1,2	L858CLT
	L-858B	4	1,2	1	D858CLT(fluor)
	L-858B	4	1,2,3	1,2	D858CLT(ined)

L-859 - Lights, Flashing, Omnidirectional
(AC 150/5345-51)

Manufacturer	Manufacturer's catalog number	Remarks
Flash Technology Corp.	FTS-427	Style F
Unitron International Systems	VGS-837	Style F

L-860 - Lights, Runway & Taxiway Edge, Low Intensity
(AC 150/5345-48)

Manufacturer	Manufacturer's catalog number		
	Type L-860	Type L-860E	Type L-860T
Crouse-Hinds Co.	40650 (1)	40650-GR,RG (1)	
Godfrey Engineering Co.	GEA-05 (3)(24)	GEA-05 (24)	GEA-05 (24)
Manairco, Inc.	2100 (2)(3) 2125 (6)	2250 (5)	2300 (6)
National Airport Equipment Co.	L-500C (7) L-510C (8)	L-500R/G (8) L-510R/G (9)	L-500B (8) L-510B (9)

L-867 - Light Base, Non-load Bearing

L-868 - Light Base, Load Bearing

L-869 - Junction Box

(AC 150/5345-42B)

Manufacturer	Type	Size	Manufacturer's catalog number								
			Base	Multiple section base			Exten- sion	Conv. ring	Cover plate	Spacer rings	Mud plat
				Bottom	Middle	Top					
Gardner, T.J., Co.	L-867	B	1224PVC				12S-EXT			12ER-	
	L-867	B	1224PVC- ADJ								
	L-867	B	1224S						12-1-CP-S		
	L-867	D	1624S				16S-EXT		16-1-CP-S	16ER-	
	L-868	A	1024-2-S				1024-2- EXT		10-2-CP-S		
	L-868	B	1224-2-S				1224-2- EXT		12-2-CP-S	1275FR	

Light Structure, Lightweight ors
(AC 150/5345-45)

			ing number	
Manufacturer	Type	Class	Manufacturer's	Aiming bar
Jaquith Industries, Inc.	1	A	SM/A	44A0156A

Medium Intensity Approach Lighting System
with Runway Alignment Indicator Lights (MALSR)
(FAA-E-2325)

Manufacturer	Component	Manufacturer's catalog number
Crouse-Hinds Co.	Remote optical head	41001
	Flasher power supply	41007
	Control cabinet	41010
	Power transformer	41005
	Junction box	41006
	PAR-38 lampholder	41003
	Lampholder aiming device	41020
	Optical head aiming device	41002
Multi-Electric Manufacturing, Inc.	Flashing light	FA-9425/1, FA-9994
	Power panel	FA-9425/2, FA-9994
	Control cabinet	FA-9426/1, FA-9994
	Power Transformer	FA-9426/2, FA-9994
	PAR-38 lampholder	FA-9426/3, FA-9994
	Aiming device	FA-9426/4, FA-9994

LAMP DESCRIPTIONS

Lamp	Designation	Watts	Volts	Amps	Lamp manufacturer
(1)	8301	40	120		Yorkville Industries
(2)	15T6	15	120		General Electric, Westinghouse
(3)	15T7C	15	120		Westinghouse
(4)	69A21TS	69	120		General Electric, Sylvania, West.
(5)	40C9 $\frac{1}{2}$ C/ST	40	120		Sylvania
(6)	25FC	25	120		General Electric, Sylvania
(7)	15A15/CL	15	120		Sylvania
(8)	25A19/GR/CL	25	120		Sylvania
(9)	40A21/GR/CL	40	120		Sylvania
(10)	6.6A/T10/1P	30		6.6	General Electric, Sylvania, West.
(11)	6.6A/T10P	45		6.6	General Electric, Sylvania, West.
(12)	40A/TS	40	120		General Electric, Sylvania, West.
(13)	25A/CL	25	120		General Electric, Sylvania
(14)	40T10P	40	120		General Electric, Sylvania
(15)	6.6AQ CL/DCR	200		6.6	Sylvania
(16)	20058	100		6.6	Crouse-Hinds
(17)	40732	45		6.6	Crouse-Hinds
(18)	40737	30		6.6	Crouse-Hinds
(19)	HG132PPF	30		6.6	Sylvania
(20)	HG112PPF	45		6.6	Sylvania
(21)	EWR	150		6.6	General Electric
(22)	6.6A/T14/2P	204		6.6	General Electric, Sylvania, West.
(23)	6.6A/T14/3P	210		6.6	General Electric
(24)	25T8	25	120		General Electric
(25)	40925	175		6.6	Crouse-Hinds
(26)	6.6ATSQ/CL2	115		6.6	Sylvania
(27)	6.6A2PPF	150		6.6	Sylvania
(28)	Q200T4/CL	200		6.6	General Electric
(29)	48A0042	200		6.6	ADB
(30)	100A21/TS	100	120		General Electric
(31)	EXL	30		6.6	General Electric
(32)	116A21/TS	116	120		General Electric, Westinghouse
(33)	EXM	45		6.6	General Electric
(34)	Q6.6A/T4/DCR	200		6.6	General Electric
(35)	20041-1	200		6.6	Crouse-Hinds
(36)	EVV	120		6.6	General Electric
(37)	T4Q/CL/2PPF	115		6.6	Sylvania
(38)	Q20A PAR 56/2	300		6.6	General Electric
(39)	55042	30		6.6	Sylvania
(40)	20496	115		6.6	Crouse-Hinds
(41)	48A0039	45		6.6	ADB
(42)	48A0040	65		6.6	ADB
(43)	19464	45		6.6	Crouse-Hinds
(44)	19484	65		6.6	Crouse-Hinds
(45)	55043	45		6.6	Sylvania
(48)	620PS40P	620	120		Westinghouse, Sylvania, GE
(49)	20041-2	125		6.6	Crouse-Hinds
(50)	20521	34		6.6	Crouse-Hinds
(51)	19868	45		6.6	Crouse-Hinds

APPENDIX 1. ADDRESS LIST OF EQUIPMENT MANUFACTURERS

ADB-ALNACO, Inc.
997 Gahanna Parkway
P.O. Box 30829
Columbus, Ohio 43230
(614) 861-1304

Airport Lighting Co.
1923 Central Avenue
Hot Springs, Arkansas 71901
(501) 624-5488

Airport Lighting Control Co.
P.O. Box 1316
Winter Park, Florida 32790
(305) 628-3233

Amerace Corporation
Elastimold Division
P.O. Box 503
Hackettstown, New Jersey 07840
(201) 852-1122

Amerace Corporation
Signal Products Division
7542 North Natchez Street
Niles, Illinois 60648
(312) 647-7717

American Insulated Wire Co.
Central Avenue and Freeman Street
Pawtucket, Rhode Island 02862
(401) 726-0700

Anaconda-Ericsson, Inc.
Wire and Cable Division
East 8th Street
Marion, Indiana 46952
(317) 664-2321

Appollo Lighting Company
4920 East Fifth Avenue
Columbus, Ohio 43219
(614) 237-8888

Associated Engineering
11791 Monarch Street
Garden Grove, California 92641
(714) 897-7441

ATC International, Inc.
3250 N. Sheridan
Tulsa, Oklahoma 74115
(918) 583-7184

Behrens Construction
Country Club Road
Minot, North Dakota 58701
(701) 839-5643

Carol Cable Co.
1900 North Fifth Avenue
River Grove, Illinois 60171
(312) 456-4000

Carsonite International Corp.
2900 Lockheed Way
Carson City, Nevada 89701
(702) 883-5104

Collyer Insulated Wire Co.
100 Higginson Avenue
Lincoln, Rhode Island 02865
(401) 723-7800

CCS Hatfield Wire and Cable Co.
12 Commerce Drive
Cranford, New Jersey 07016
(201) 272-3850

Control Industries, Inc.
409 Lafayette Avenue
Urbana, Ohio 43078
(513) 653-7694

Crouse-Hinds Co.
Lighting Products Division
P.O. Box 1200
Windsor, Connecticut 06095
(203) 683-4300

DeVore Aviation Corporation
6104 Kircher Boulevard, N.E.
Albuquerque, New Mexico 87109
(505) 345-8713

Eaton Corporation
9475 Center Road
Fenton, Michigan 48430
(313) 629-5361

Appendix 1

EG&G, Inc.
35 Congress Street
Salem, Massachusetts 01970
(617) 754-3200

Essex Group
Power Conductor Division
2601 South Adams Street
Marion, Indiana 46952
(317) 664-6211

Flash Technology Corporation
55 Lake Street
Nashua, New Hampshire 03060
(603) 883-6500

Gardner, T.J., Co.
699B Castro Street
San Leandro, California 94577
(415) 483-0694

General Electric Co.
1285 Boston Avenue
Bridgeport, Connecticut 06602
(203) 334-1012

Godfrey Engineering Inc.
P.O. Box 260803
Tampa, Florida 33685
(813) 855-4428

Hendrix Wire & Cable Corporation
Milford, New Hampshire 03055
(603) 673-2040

Hevi-Duty Electric Co.
Box 268
Goldsboro, North Carolina 27530
(919) 734-8900

Hubbell, Harvey, Inc.
Electric Way
Christiansburg, Virginia 24073
(703) 382-6111

Hughey & Phillips, Inc.
3050 North California Street
Burbank, California 91504
(213) 849-1104

ITT Royal Electric Division
95 Grand Avenue
Pawtucket, Rhode Island 02862
(401) 722-8600

Jaquith Industries, Inc.
Syracuse, New York 13205
(315) 478-5701

Joy Manufacturing Co.
La Grange Division
Route 4, Box 156
La Grange, North Carolina 28551
(919) 566-3014

Kerite Co., The
49 Day Street
Seymour, Connecticut 06483
(203) 888-2591

Manairco, Inc.
Box 111
Mansfield, Ohio 44901
(419) 524-2121

Multi-Electric Manufacturing, Inc.
4223-43 West Lake Street
Chicago, Illinois 60624
(312) 722-1900

National Airport Equipment Co.
5910 Wayzata Boulevard
Minneapolis, Minnesota 55416
(612) 545-4157

North American Phillips Corporation
100 E. 42nd Street
New York, New York 10017
(212) 697-3600

Pirelli Cable Corporation
800 Rahway Avenue
Union, New Jersey 07083
(201) 687-0250

Reynolds Metal Co.
Richmond, Virginia 23261
(804) 281-2000

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Appendix 1

Rome Cable Co.
421 Ridge Street
Rome, New York 13440
(315) 337-3000

Valley Illuminators, Inc.
Box 88866
Tuckwila, Washington 98188
(206) 564-2067

Rockbestos Co., The
860 N. Main St. Ext.
Wallingford, Connecticut 06492
(203) 772-2250

Safe-Way Sign Co.
Box 324
West Springfield, Massachusetts 01089
(413) 737-6991

Southwire Company
Carrollton, Georgia 30117
(404) 832-6311

Standard Signs, Inc.
3190 East 65th Street
Cleveland, Ohio 44127
(216) 341-5611

Sterner Lighting Systems, Inc.
1 Park Lane
Winsted, Minnesota 55395
(612) 485-2141

Triangle PWC, Inc.
Box 711
New Brunswick, New Jersey 08903
(201) 745-5500

TWR Lighting, Inc.
1923 Antoine B-4
Houston, Texas 77055
(713) 688-6904

Unipar, Inc.
Box 1056
State College, Pennsylvania 16801
(814) 238-6481

Universe, Inc.
Box 495
1107 W. Chestnut Street
(309) 829-3478

7. MODIFICATIONS TO EQUIPMENT. Once the equipment has been approved, the manufacturer may not make any changes in the equipment without prior FAA approval. Requests for design or component changes must be submitted to the office listed in paragraph 3 and must be accompanied by supporting documentation plus 10 copies of the revised instruction manual pages which reflect the proposed change. Substitution of stock electrical items such as resistors, capacitors, transistors, etc., which are identical in rating and size and which are equal or better in quality does not require FAA approval. This exception does not apply to lamps.

8. REVISION OF SPECIFICATIONS. It may be necessary at times to revise the specification for a particular equipment to reflect changing needs of aviation or of new technology. In such a case the revised equipment specification will contain an effective date, normally 6 months, at which time the prior approval automatically expires unless the manufacturer has been requalified to the revised specification. Manufacturers are informed by letter and supplied a copy of the revised specification within a few days of its issuance. The procedure for requalification is the same as for the original qualification as discussed in paragraph 3 with the following exceptions:

a. The manufacturer does not have to resubmit the quality control plan.

b. Depending on the nature of the equipment modification it may not be necessary to perform all qualification tests. Exemption from certain tests may be granted when requested and justified by the manufacturer that the test is not applicable to the modified design.

9. EXEMPTION FROM SPECIFICATION REQUIREMENTS. No exemptions from the specifications, except as specified in paragraph 8, will be granted. However, it is recognized that equipment specifications may not cover all specific design and operational applications and that equipment may be submitted for approval that does not meet all specification requirements. If the proposed design is considered to have merit, then the applicable equipment specification will be revised to reflect the proposed design and submitted for comment through the normal coordination process with the aviation community. If no valid adverse comments are received on the proposed revision, then the proposed design may be given an interim approval before final approval and publication of the revised specification. In such cases, other manufacturers of similar equipment will be notified of the approval and of the forthcoming specification revision.

10. PUBLICATION OF APPROVAL LISTINGS. A listing of approved manufacturers will be published in this advisory circular which will be updated in January and July of each year. Changes in approval listings made between publication dates may be obtained from the office listed in paragraph 3 or from those FAA offices as listed in AC 150/5000-3, Address List for Regional Airports Divisions and Airport District/Field Offices, current edition.

11. Freedom of Information Act. Documentation submitted to the FAA for qualification approval may be made available to the public upon request through the Freedom of Information Act. Material marked "proprietary" will not be accepted under this approval process.

U.S. Department
of Transportation
**Federal Aviation
Administration**

800 Independence Ave., S.W.
Washington, D.C. 20591

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APPENDIX 2. QUALIFICATION PROCEDURES

1. QUALIFICATION PROGRAM. A qualification program has been established by the Federal Aviation Administration (FAA) for certain equipment components which are unique to aviation and are used in airport lighting and visual aid systems. This program is administered by the Office of Airport Standards and is intended solely for that equipment funded for installation under Federal grant assistance programs for airports. The purpose of the qualification program is to insure that the equipment meets the required standards for safety, performance, quality, and standardization.

2. EQUIPMENT COVERED BY THE QUALIFICATION PROGRAM. The equipment included in the 150/5345 series of advisory circulars, as listed in the contents of this advisory circular, is covered by the qualification program. The equipment covered may be changed periodically to reflect changing needs in airport lighting systems and equipment.

3. SUBMITTAL OF QUALIFICATION REQUESTS. Requests for qualification approval must be submitted in writing to the Office of Airport Standards, Attention: AAS-200, Federal Aviation Administration, Washington, D.C., 20591. This request must include:

a. A list of the types, classes, styles, and sizes of equipment, along with the manufacturer's catalog numbers, for which qualification approval is requested. A list of equipment options should also be included when so specified in individual equipment specifications.

b. Engineering drawings of the equipment to permit determination of adherence to specification design requirements.

c. A copy of proposed test procedures and test data sheets and a statement as to whether the manufacturer proposes to conduct the tests or name and location of an independent testing laboratory where the tests are to be conducted. Since the FAA reserves the right to witness any or all tests, the manufacturer should not commence the tests until advised whether the FAA elects to witness, or waives the option to witness, the tests. The manufacturer shall give the FAA at least 2 weeks' notice prior to starting tests.

d. A statement that the manufacturer agrees to provide the following minimum guarantee for the equipment:

"That the equipment has been manufactured and will perform in accordance with the applicable specifications and that any defect in design, materials, (excluding lamps), or workmanship which may occur during proper and normal use during a period of 1 year from date of installation or a maximum of 2 years from date of shipment will be corrected by repair or replacement by the manufacturer f.o.b. factory."

e. A statement that the manufacturer agrees to provide and maintain a quality control program in accordance with FAA-STD-013, Quality Control Program Requirements (copies of this document may be obtained from the Federal Aviation Administration, Systems Engineering Service, Washington, D.C. 20591). The manufacturer shall also provide a copy of the proposed quality control plan.

- f. A copy of the proposed instruction manual for the equipment.

4. REVIEW PROCEDURE FOR QUALIFICATION REQUESTS. The manufacturer will be notified within 1 week after receipt of the qualification request whether the FAA elects or waives the option to witness tests and whether the proposed test procedures and test data sheets are acceptable. Notification of acceptance, or of changes required for acceptance, of the quality control plan, instruction manual, and the equipment design will be made within 30 days. The manufacturer will be notified in writing within 2 weeks after the last submittal of the required documentation or test results, if acceptable, that the equipment is approved. The manufacturer must provide 10 copies of the approved instruction manual within 30 days after approval of the equipment. These manuals are required by various FAA field offices in monitoring the approval of equipment. The approval will be subject to the condition that it may be rescinded if:

- a. The manufacturer fails to provide the required instruction manuals.
- b. The manufacturer fails to honor the guarantee (paragraph 3d) or does not maintain quality control in accordance with the approved plan (paragraph 3e).
- c. The equipment has an unsatisfactory failure rate (paragraph 6).
- d. The manufacturer fails to perform the required production tests (paragraph 5).
- e. Changes are made in the equipment without FAA approval (paragraph 7).
- f. The equipment specification is cancelled or is revised and the manufacturer fails to requalify (paragraph 8).

5. TESTS. The manufacturer must successfully pass all tests in the applicable specification. The manufacturer shall provide all necessary equipment and bear all testing costs. Where the FAA waives the option to witness tests, the manufacturer must submit a certified copy of all test reports. In addition to qualification tests, each equipment specification requires some tests to be conducted on each, or a sampling of, production units. The manufacturer must retain records of the production tests for at least 3 years and permit the FAA (approving office) to witness such tests or inspect previous records on request.

6. UNACCEPTABLE FAILURE RATE. Since reliable equipment is of prime importance to safety of aircraft operations, equipment which proves unreliable in use must be removed from the approval listing. The determination of unreliability must be based on judgment and experience with equipment of a like nature. Where any such equipment is deemed to have an unsatisfactory failure rate or is deficient in workmanship or materials, the manufacturer will be notified in writing as to the basis for this determination. The manufacturer shall then notify the FAA in writing as to its plan of action for correcting the problem. If the manufacturer does not resolve the problem within a reasonable time (the time frame will, of necessity, be based on safety considerations and/or the nature of the problem), the equipment will be removed from the approval listing. The FAA reserves the right to require the equipment to be subjected to any or all qualification tests when the equipment has been deemed unreliable or deficient in materials or workmanship.

L-824 - Cable, Underground Electrical
(AC 150/5345-7D)

Manufacturer	Conductors		Type	Rating (volts)	Manufacturer's identification marking
	S	M			
American Insulated Wire Co.	X	X	A,B	600	FAA-L824 Type A, B
	X		As,Bs	5000	FAA-L824 Type A, B
	X		B	5000	FAA-L824 Type B
	X	X	C	600	FAA-L824 Type C
	X		Cs	5000	FAA-L824 Type C
Anaconda-Ericsson, Inc.	X		B	600	Durasheath EP
	X		B	5000	Durasheath EP
	X		C	600	Durasheath XLP
Carol Cable Co.	X		C	600	L-824-C
	X		C	5000	L-824-C
CCS Hatfield Wire & Cable Co.	X		Cs	5000	Hatfield Permalene XP
	X		C	600	Permalene XP
Cerro Wire & Cable Co.	X		A	600	L-824 Type A
	X		B	5000	L-824 Type B
	X		C	600	L-824 Type C
	X		C	5000	L-824 Type C
Collyer Insulated Wire Co.	X	X	C	600	XLP
	X	X	Cs	5000	XLP
Essex Group	X		C	600	L-824 Type C
	X		C	5000	L-824 Type C
General Electric Co.	X		C	600	Vulkene
		X	C	600	Vulkene Flamenol
	X		C	5000	Vulkene
		X	Cs	5000	Vulkene Flamenol
Hendrix Wire & Cable Corp.	X		C	600	FAA L-824 Type C
	X		C	5000	FAA L-824 Type C
ITT Royal Electric Division	X		C	5000	FAA L-824 Type C
Kerite Co., The	X	X	A	5000	Kerite HTK
North American Phillips Corp.	X		C	5000	Dravulteen (XLPE)

L-824 - Cable, Underground Electrical
(AC 150/5345-7D)
(cont'd)

Conductors	Rating	Manufacturer's
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NOTES:

- (1) Conductors of 5000-volt cable may be either 7-strand or 19-strand.
- (2) In the column "Conductors", s indicates single conductor and m indicates multiple conductor.
- (3) All cables are nonshielded except s after the "Type" letter indicates both nonshielded and shielded.