THE PENNSYLVANIA RAILROAD

No. 109-M

ISSUED PHILADELPHIA, PA.
JULY 1, 1960

CLASSIFICATION AND DESCRIPTION OF LOCOMOTIVES

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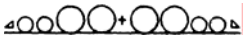
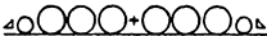
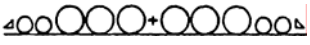
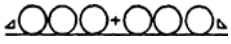
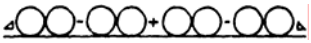
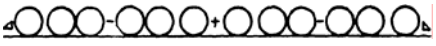
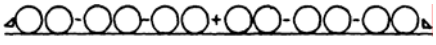
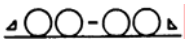
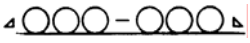
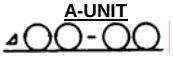
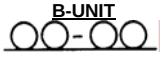
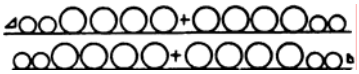
LOCOMOTIVES—CLASSIFICATION AND DESCRIPTION

(SUPERSEDING CLASSIFICATION AND DESCRIPTION OF LOCOMOTIVES AND TENDERS NO. 109-L, DATED SEPT. 1, 1956)

ELECTRIC LOCOMOTIVES

P.R.R. CLASS	A.A.R. SYMBOL	WHEEL ARRANGEMENT
B	C	
L	1-D-1	
O	2-B-2	
P	2-C-2	
DD	2-B+B-2	
FF	1-C+C-1	
GG	2-C+C-2	
E-44	C-C	
E2B	2(B-B)	
E2C	2(C-C)	
E3B	2(B-B-B)	

DIESEL-ELECTRIC LOCOMOTIVES

A.A.R. SYMBOL PER UNIT.	WHEEL ARR'G'T. PER UNIT
B	
B-B	
C-C	
B-B	A-UNIT  B-UNIT 
A1A-A1A	A-UNIT  B-UNIT 
2(2-D+D-2)	

Explanation of P.R.R. Classifications for experimental Electric and Diesel-electric locomotives shown on Page 2.

Explanation of A.A.R. symbols for wheel arrangements of Electric and Diesel-electric locomotives shown on Page 3.

July 1, 1960.

EXPLANATION OF CLASSIFICATIONS FOR DIESEL-ELECTRIC LOCOMOTIVES

1. **First letter designates Builder:**

   A—Alco Products, Inc.

   B—Baldwin-Lima-Hamilton Corporation.

   E—Electro-Motive Division of General Motors Corporation.

   F—Fairbanks, Morse and Company.

   G—General Electric Company. (Switchers only).

   L—Lima-Hamilton Corp.

2. **Second letter (and third letter where used) designates service:**

   F—Freight.

   H—Freight with lower speed gearing, primarily for helper service.

   FP—Normally freight, but equipped for use in passenger service.

   P—Passenger.

   S—Switching service.

   FS—Switching locomotives, equipped for use in freight service.

   PS—Switching locomotives, equipped for use in passenger service.

3. **Numerals indicate engine horsepower in nearest hundreds:**

4—380 or 400 Horsepower.	**24—2400 Horsepower.**
6—600 or 660 “	**25—2500 “**
7—750 or 800 “	**30—3000 “**
10—1000 Horsepower	**32—3200 “**
12—1200 “	**40—4000 “**
15—1500 “	**45—4500 “**
16—1600 “	**48—4800 “**
17—1750 “	**50—5000 “**
18—1800 “	**60—6000 “**
20—2000 “	**64—6400 “**
22—2250 “	

4. **Final letter, or letters, indicates special features as follows:**

   (All small letters).

   a—Change in original design.

   m—Multiple Unit equipped—Switchers.

   s—Steam Generator equipped—Switchers.

   z—Indicates major changes.

EXPLANATION OF CLASSIFICATIONS FOR TWO UNIT ELECTRIC LOCOMOTIVES. (EXPERIMENTAL)

All locomotives have two units and are built by the following builders:

E2B—General Electric Company, Nos. (4939-4940)—(4941-4942)—(4943-4944).

E2C—Westinghouse Electric Corporation, Nos. (4997-4998).

E3B—Westinghouse Electric Corporation, Nos. (4995-4996).

1. **First letter designates type of locomotives:**
   E—Electric.
2. **Numeral designates number of trucks.**
3. **Last letter designates the A.A.R. Classification for each truck:**
   B—2 Axles, or 4-Wheel Truck.
   C—3 Axles, or 6-Wheel Truck.

July 1, 1960.

ASSOCIATION OF AMERICAN RAILROADS

STANDARD SYSTEM OF NOMENCLATURE FOR AXLE AND TRUCK ARRANGEMENT OF LOCOMOTIVES HAVING ELECTRIC TRANSMISSION

Standard

Adopted, 1932; Revised 1949, 1953

Starting at the front end of locomotives designed for single end operation or at either end of locomotives built for double end operation, the wheels in any wheel base, the truck connections for the individual units, and the connections between such units, are designated in their consecutive order. Letters represent the driving axles, numerals the guiding or carrying axles or the number of units, and arithmetical signs the type of connections between units and the type or absence of connections between trucks.

1. The number of adjacent driving axles (a) in a rigid wheel base, or (b) on a truck, is represented by a letter selected according to its alphabetical order.

Examples: A One driving axle.
B Two driving axles.
C Three driving axles.
D Four driving axles, etc.

2. The number of adjacent idler (non-driving) axles in a rigid wheel base or a truck is represented by an Arabic numeral.

Examples: 1. One idler axle.
2. Two idler axles, etc.

3. Trucks having both driving and idler axles in the same rigid wheel base are designated by a letter and a numeral placed together in proper order.

Examples: 1A Truck with one idler and one driving axle.
1B Truck with one idler and two adjacent driving axles.
A1A Truck with one idler and two non-adjacent driving axles.

Additional examples of various truck wheel arrangements are shown in diagram form on Page 1.

4. Plus (+) signs are used to indicate:

Articulated connections between trucks under a single unit locomotive, or between units of a multiple unit locomotive. An articulated connection as used for this purpose generally involves the use of one pin, the connection having freedom vertically and horizontally.

5. Minus (—) signs are used to indicate:

(a) Separation between swivel type trucks, not articulated.

(b) Separation between a rigid base of any group of driving wheels and adjacent guiding or carrying trucks not connected through an articulated connection.

6. Multiplication (x) signs are used to designate permanent drawbars between the units of multiple unit locomotives. A permanent drawbar as used for this purpose involves the use of two pins, and a connecting link.

7. Division (÷) signs are used to designate automatic couplers between the units of multiple unit locomotives.

8. On locomotive units where two swivel trucks are connected by a common or span bolster, or where a guiding truck and one or more pairs of driving wheels are incorporated into the same frame, such truck assemblies shall be underlined to designate such grouping of trucks, or guiding trucks and driving wheels.

9. (a) When two or more similar motive power units, each with the same or symmetrical wheel arrangement, are operated in multiple as a locomotive, the number of units is indicated by a numeral and either a division sign, multiplication sign or a plus sign to show automatic couplers, permanent drawbars, or articulated connections, respectively, preceding the classification of one unit put in parenthesis.

(b) When two or more units with dissimilar wheel arrangements are operated in multiple, the wheel arrangement of each unit is shown in consecutive order, starting from the front of the locomotive, setting off each unit by parenthesis with plus, division, or multiplication signs between the units to represent articulated connections, automatic couplers, or permanent drawbars, respectively, to indicate connections between the units.

10. Examples of designating wheel arrangements of single and multiple units with various types of trucks, and connections between trucks and units, are shown in diagrams form on Manual page F-104A.

ELECTRIC LOCOMOTIVES

Class B 1
Class DD 1—"DC" Current.
Class DD 2 No. 5800.
Class L 6 No. 5938.
Class L 6 No. 5939.
Class L 6 a No. 5940.
Class O 1 a No. 7853.
Class O 1 c No. 7857.
Class P 5 No. 4700.
Class P 5 a (Before 5-1-34). Box Type.
Class P 5 a (Modified P 5 a—After 5-1-34). Streamlined.
Class P 5 b No. 4702 (Converted from P 5 a, Motors applied to Trucks).
Class FF 2 Nos. 1, 2, 3, 5, 6, 7.
Class GG 1 No. 4800.
Class GG 1 Built prior to 1-1-37. Nos. 4801-4857 incl.—57 Loco's.
Class GG 1 Built after 1-1-37. Nos. 4858-4868 incl.—11 Loco's.
Class GG 1 Built after 12-1-38. Nos. 4869-4888 incl.—20 Loco's.
Class GG 1 Built after 6-1-39. Nos. 4889-4938 incl.—50 Loco's.
Class E-44 G. E. Co. 4400 H.P. Nos. 4400-4465 incl.—66 Loco's.

TWO UNIT ELECTRIC LOCOMOTIVES

Class E2B General Electric Co. 5000 H.P., Nos. 4939 to 4944, incl.
Class E2C Westinghouse Electric Corp., 5625 H.P., Nos. 4997, 4998.
Class E3B Westinghouse Electric Corp., 5625 H.P., Nos. 4995, 4996.

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DIESEL-ELECTRIC SWITCHING LOCOMOTIVE CLASSES

Class A6b	**No. 3907 only.**
Class AS-6	
Class AS-10	
Class AS-10a	
Class AS-10m	
Class AS-10s	**No. 5906 only.**
Class AS-10as	
Class AS-10am	
Class AS-10ams	
Class AS-15m	**Nos. 4041, 4042, 4044, 4046, 4047, 4048—formerly D. & H. R. R.**
Class AS-16	**No. 8914 only.**
Class AS-16m	
Class AS-16ms	
Class AS-16a	
Class AS-18m	
Class AS-18am	
Class AS-24m	
Class BS-6	
Class BS-6a	
Class BS-7	
Class BS-7m	
Class BS-10	
Class BS-10a	
Class BS-10am	
Class BS-10as	
Class BS-12	
Class BS-12m	
Class BS-12am	
Class BS-12as	**No. 8975 only.**
Class BS-12ams	
Class BS-16m	
Class BS-16ms	
Class BS-24	
Class BS-24m	
Class ES-6	**No. 5911 only.**
Class ES-6	
Class ES-10	
Class ES-12	
Class ES-12m	
Class ES-15m	
Class ES-15ms	
Class ES-15a	**(Madison Hill).**
Class ES-17m	
Class FS-10	
Class FS-12	
Class FS-12m	
Class FS-16m	
Class FS-20	
Class FS-20m	
Class FS-24m	
Class GS-4	
Class GS-4m	
Class LS-25	
Class LS-25m	

SWITCHING LOCOMOTIVE CLASSES EQUIPPED FOR "ROAD SERVICE"

Class APS-24ms
Class EFS-17m

DIESEL-ELECTRIC ROAD LOCOMOTIVE CLASSES

SINGLE UNIT— "A" OR "B"

ROAD FREIGHT SERVICE

Class AF-15	
Class AF-16	
Class AFP-20	**Converted from (AP-20 Pass.)**
Class BF-15	
Class BF-15a	
Class BF-16	
Class BF-16z	**Converted from (BP-20 Pass.)**
Class ABF-18	**Converted from (BF-15, BF-16). Baldwin Units equipped Alco Engines.**
Class BH-50	**Converted from (BP-60a) For Helper Service.**
Class EF-15	
Class EF-15a	
Class EFP-15	**Freight or Passenger Service.**
Class FF-16	
Class FF-20	

PASSENGER SERVICE

Class BP-20
Class EP-20
Class EP-22

July 1, 1960.

DIESEL LOCOMOTIVES

SWITCHING DIESEL-ELECTRIC LOCOMOTIVES

	CLASSIFICATION	A6b	AS-6	AS-6	AS-10	AS-10m	AS-10a	
1	UNIT	——	——	——	——	——	——	1
2	Wheel Arrangement Symbol A.A.R.	B	B-B	B-B	B-B	B-B	B-B	2
3	Number of Engines, Per Unit	One	One	One	One	One	One	3
4	Make of Engine	Hamilton	Alco	Alco	Alco	Alco	Alco	4
5	Model of Engine	68-SA	539	539	539-SC	539-SC	251	5
6	Number of Cylinders, Each Engine	6	6	6	6	6	6	6
7	Rated Horsepower, Each Engine	450	660	660	1000	1000	1000	7
8	Maximum Governed Speed R.P.M.	950	740	740	740	740	1000	8
9	Wheel Diameter In.	50	40	40	40	40	40	9
10	Driving Axles, Number	2	4	4	4	4	4	10
11	Idler Axles, Number	——	——	——	——	——	——	11
12	Journal, Driving Axle In.	6½ x 12	6½ x 12 7 x 14	6½ x 12 7 x 14	6½ x 12 7 x 14	6½ x 12	6½ x 12	12
13	" Idler Axle In.	——	——	——	——	——	——	13
14	" Bearings	Plain	Plain	Plain	Plain	Plain	Plain	14
15	Length of Truck Centers Ft. In.	——	22-0	22-0	22-6	22-6	22-0	15
16	Wheel Base—Truck Ft. In.	10-0	8-0	8-0	8-0	8-0	8-0	16
17	" " —Unit Ft. In.	10-0	30-0	30-0	30-6	30-6	30-0	17
18	Coupled Length of Unit Ft. In.	26-10½	44-5¾	44-5¾	45-5¾	45-5¾	45-5¾	18
19	Main Generator	One	One	One	One	One	One	19
20	" " —Make	W. E. Corp.	G. E. Co.	G. E. Co.	G. E. Co.	G. E. Co.	G. E. Co.	20
21	" " —Type	476-A2	552	552	GT-553	GT-553	GT-584	21
22	Traction Motors	2	4	4	4	4	4	22
23	" " —Make	W. E. Corp.	G. E. Co.	G. E. Co.	G. E. Co.	G. E. Co.	G. E. Co.	23
24	" " —Type	355	731	731	731	731	752	24
25	" " —Gear Ratio	16 to 76	16 to 75	16 to 75	16 to 75	16 to 75	18 to 74	25
26	Electric Control—Voltage	64	64	64	64	64	64	26
27	Air Brake Schedule	14-EL	6-SL 14-EL	6-SL 14-EL	6-SL 14-EL	6-SL	6-SL	27
28	Compressors	One	One	One	One	One	One	28
29	" —Make	W.T.B.	W.A.B. Co.	W. A. B. Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	29
30	" —Type	D4P	3CD	3-CD	3-CD	3-CD	3-CDC	30
31	" —Cap. at Full Eng. Speed Cu. Ft.	50	228	228	228	228	214	31
32	Brakes—Dynamic	No	No	No	No	No	No	32
33	Wt. on Rail—All Drivers Lb.	130,000	199,900	202400	234,100	234,100	243,000	33
34	" " " —All Idlers Lb.	——	——	——	——	——	——	34
35	" " " —Total Unit Lb.	130,000	199,900	202400	234,100	234,100	243,000	35
36	Maximum Loco. Speed M.P.H.	20	60	60	60	60	60	36
37	Starting Tractive Force, 25% Adhesion Lb.	32,500	49,975	50600	58,525	58,525	60,750	37
38	Max. Continuous Tractive Force Lb.	8,500	29,200	29200	34,000	34,000	53,000	38
39	Speed at Max. Cont. Tractive Force M.P.H.	16.5	6.3	6.3	8	8	5	39
40	Fuel Tank Capacity—Total Gals.	230	635	635	635	635	635	40
41	Water " " —Heating, Total Gals.	——	——	——	——	——	——	41
42	" " " —Eng. Cooling, Total Gals.	340	220	220	240	240	110	42
43	Lubricating Oil—Engine, Total Gals.	60	80	80	80	80	140	43
44	Steam Heat Generator—No. Per Unit	——	——	——	——	——	——	44
45	" " " —Type	——	——	——	——	——	——	45
46	" " " —Each, Lbs. Steam/Hr.	——	——	——	——	——	——	46
47								47
48								48
49								49
50								50
51								51
52	Remarks	No. 3907		Note 1				52

Note 1.—Weights for Loco. Nos. 5954, 9100-9103, 9237-9244 only.

	CLASSIFICATION		AS-10s	AS-10as		AS-10am	AS-10ams	AS-15m	
1	UNIT		——	——		——	——	——	1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B		B-B	B-B	B-B	2
3	Number of Engines, Per Unit		One	One		One	One	One	3
4	Make of Engine		Alco	Alco		Alco	Alco	Alco	4
5	Model of Engine		539-SC	539-SC		539-SC	539-SC	244-B	5
6	Number of Cylinders, Each Engine		6	6		6	6	12	6
7	Rated Horsepower, Each Engine		1000	1000		1000	1000	1500	7
8	Maximum Governed Speed	R.P.M.	740	740		740	740	1000	8
9	Wheel Diameter	In.	40	40		40	40	40	9
10	Driving Axles, Number		4	4		4	4	4	10
11	Idler Axles, Number		——	——		——	——	——	11
12	Journal, Driving Axle	In.	7 x 14	$6\frac{1}{2}$ x 12		$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	12
13	" Idler Axle	In.	——	——		——	——	——	13
14	" Bearings		Plain	Plain		Plain	Roller	Plain	14
15	Length of Truck Centers	Ft. In.	31-0	31-0		31-0	31-0	30-0	15
16	Wheel Base—Truck	Ft. In.	9-4	9-4		9-4	9-4	9-4	16
17	" " —Unit	Ft. In.	40-4	40-4		40-4	40-4	39-4	17
18	Coupled Length of Unit	Ft. In.	54-$11\frac{3}{4}$	54-$11\frac{3}{4}$		54-$11\frac{3}{4}$	54-$11\frac{3}{4}$	54-$11\frac{3}{4}$	18
19	Main Generator		One	One		One	One	One	19
20	" " —Make		G. E. Co.	G. E. Co.		G. E. Co.	G. E. Co.	G. E. Co.	20
21	" " —Type		GT-553	GT-553		GT-553	GT-553	GT-564	21
22	Traction Motors		4	4		4	4	4	22
23	" " —Make		G. E. Co.	G. E. Co.		G. E. Co.	G. E. Co.	G. E. Co.	23
24	" " —Type		731	731		731	731	752	24
25	" " —Gear Ratio		16 to 75	16 to 75		16 to 75	16 to 75	18 to 74	25
26	Electric Control—Voltage		64	64		64	64	64	26
27	Air Brake Schedule		14-EL	6-SL		24-RL	24-RL	6-SL	27
28	Compressors		One	One		One	One	One	28
29	" —Make		W.A.B.Co.	W.A.B.Co.		W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	29
30	" —Type		3-CD	3-CD		3-CD	3-CD	3-CDC	30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	228	228		228	228	228	31
32	Brakes—Dynamic		No	No		No	No	No	32
33	Wt. on Rail—All Drivers	Lb.	249,700	244,000		242,400	246,000	245,400	33
34	" " " —All Idlers	Lb.	——	——		——	——	——	34
35	" " " —Total Unit	Lb.	249,700	244,000		242,400	246,000	245,400	35
36	Maximum Loco. Speed	M.P.H.	60	60		60	60	65	36
37	Starting Tractive Force, 25% Adhesion	Lb.	62,425	61,000		60,600	61,500	61,350	37
38	Max. Continuous Tractive Force	Lb.	34,000	34,000		34,000	34,000	52,500	38
39	Speed at Max. Cont. Tractive Force	M.P.H.	8	8		8	8	9	39
40	Fuel Tank Capacity—Total	Gals.	800	800		1600	800	1400	40
41	Water " " —Heating, Total	Gals.	800	800		——	800	——	41
42	" " " —Eng. Cooling, Total	Gals.	240	240		240	240	250	42
43	Lubricating Oil—Engine, Total	Gals.	80	80		80	80	200	43
44	Steam Heat Generator—No. Per Unit		One	One		——	One	——	44
45	" " " —Type		Vapor 4225	Vapor OK-4616		——	Vapor OK-4616	——	45
46	" " " —Each, Lbs. Steam/Hr.		2250	1600		——	1600	——	46
47									47
48									48
49									49
50									50
51									51
52	Remarks		No. 5906						52

July 1, 1960.

	CLASSIFICATION	AS-16	AS-16m	AS-16m		AS-16ms	AS-16ms	
1	UNIT	——	——	——		——	——	1
2	Wheel Arrangement Symbol A.A.R.	B-B	B-B	B-B		B-B	B-B	2
3	Number of Engines, Per Unit	One	One	One		One	One	3
4	Make of Engine	Alco	Alco	Alco		Alco	Alco	4
5	Model of Engine	244-D	244-D	244-D		244-D	244-D	5
6	Number of Cylinders, Each Engine	12	12	12		12	12	6
7	Rated Horsepower, Each Engine	1600	1600	1600		1600	1600	7
8	Maximum Governed Speed R.P.M.	1000	1000	1000		1000	1000	8
9	Wheel Diameter In.	40	40	40		40	40	9
10	Driving Axles, Number	4	4	4		4	4	10
11	Idler Axles, Number	——	——	——		——	——	11
12	Journal, Driving Axle In.	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	12
13	" Idler Axle In.	——	——	——		——	——	13
14	" Bearings	Roller	Roller	Roller		Roller	Roller	14
15	Length of Truck Centers Ft. In.	30-0	30-0	30-0		30-0	30-0	15
16	Wheel Base—Truck Ft. In.	9-4	9-4	9-4		9-4	9-4	16
17	" " —Unit Ft. In.	39-4	39-4	39-4		39-4	39-4	17
18	Coupled Length of Unit Ft. In.	55-$11\frac{3}{4}$	55-$11\frac{3}{4}$	55-$11\frac{3}{4}$		55-$11\frac{3}{4}$	55-$11\frac{3}{4}$	18
19	Main Generator	One	One	One		One	One	19
20	" " —Make	G. E. Co.	G. E. Co.	G. E. Co.		G. E. Co.	G. E. Co.	20
21	" " —Type	GT-581	GT-581	GT-581		GT-581	GT-581	21
22	Traction Motors	4	4	4		4	4	22
23	" " —Make	G. E. Co.	G. E. Co.	G. E. Co.		G. E. Co.	G. E. Co.	23
24	" " —Type	752	752	752		752	752	24
25	" " —Gear Ratio	18 to 74	18 to 74	18 to 74		18 to 74	18 to 74	25
26	Electric Control—Voltage	64	64	64		64	64	26
27	Air Brake Schedule	24-RL	24-RL	24-RL		24-RL	24-RL	27
28	Compressors	One	One	One		One	One	28
29	" —Make	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.		W.A.B.Co.	W.A.B.Co.	29
30	" —Type	3CDC	3CDC	3CDC		3CDC	3CDC	30
31	" —Cap. at Full Eng. Speed Cu. Ft.	225	225	225		225	225	31
32	Brakes—Dynamic	No	Yes	No		No	*No	32
33	Wt. on Rail—All Drivers Lb.	248,600	252,000	248,600		250,200	259,600	33
34	" " " —All Idlers Lb.	——	——	——		——	——	34
35	" " " —Total Unit Lb.	248,600	252,000	248,600		250,200	259,600	35
36	Maximum Loco. Speed M.P.H.	65	65	65		65	65	36
37	Starting Tractive Force, 25% Adhesion Lb.	62,150	63,000	62,150		62,550	64,900	37
38	Max. Continuous Tractive Force Lb.	52,500	52,500	52,500		52,500	52,500	38
39	Speed at Max. Cont. Tractive Force M.P.H.	9.5	9.5	9.5		9.5	9.5	39
40	Fuel Tank Capacity—Total Gals.	1400	1400	1400		800	800	40
41	Water " " —Heating, Total Gals.	——	——	——		800	1200	41
42	" " " —Eng. Cooling, Total Gals.	250	250	250		250	250	42
43	Lubricating Oil—Engine, Total Gals.	200	200	200		200	200	43
44	Steam Heat Generator—No. Per Unit	——	——	——		One	One	44
45	" " " —Type	——	——	——		Vapor OK-4625	Vapor OK-4625	45
46	" " " —Each, Lbs. Steam/Hr.	——	——	——		2500	2500	46
47								47
48								48
49								49
50								50
51								51
52	Remarks	No. 8914	Note 1			Note 2		52

Note 1.—Weights for Loco. Nos. 8435-8438 only.

Note 2.—Weights for Loco. Nos. 8903, 8905, 8910-8913, 8915, 8916 only.

* 8445 has dynamic brakes.

July 1, 1960.

	CLASSIFICATION		AS-16a		AS-18m	AS-18am	AS-24m		
1	UNIT		——		——	——	——		1
2	Wheel Arrangement Symbol	A.A.R.	C-C		B-B	C-C	C-C		2
3	Number of Engines, Per Unit		One		One	One	One		3
4	Make of Engine		Alco		Alco	Alco	Alco		4
5	Model of Engine		244-D		251	251	251		5
6	Number of Cylinders, Each Engine		12		12	12	16		6
7	Rated Horsepower, Each Engine		1600		1800	1800	2400		7
8	Maximum Governed Speed	R.P.M.	1000		1000	1000	1000		8
9	Wheel Diameter	In.	40		40	40	40		9
10	Driving Axles, Number		6		4	6	6		10
11	Idler Axles, Number		——		——	——	——		11
12	Journal, Driving Axle	In.	$6\frac{1}{2}$ x 12		$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		12
13	" Idler Axle	In.	——		——	——	——		13
14	" Bearings		Roller		Roller	Roller	Roller		14
15	Length of Truck Centers	Ft. In.	34-9		31-0	35-5	43-6		15
16	Wheel Base—Truck	Ft. In.	12-6		9-4	12-6	12-6		16
17	" " —Unit	Ft. In.	42-3		40-4	49-11	51-0		17
18	Coupled Length of Unit	Ft. In.	55-11¾		56-$11\frac{3}{4}$	58-$1\frac{3}{4}$	66-7		18
19	Main Generator		One		One	One	One		19
20	" " —Make		G. E. Co.		G. E. Co.	G. E. Co.	G. E. Co.		20
21	" " —Type		GT-566		GT-581	GT-586	GT-586		21
22	Traction Motors		6		4	6	6		22
23	" " —Make		G. E. Co.		G. E. Co.	G. E. Co.	G. E. Co.		23
24	" " —Type		752		752	752	752		24
25	" " —Gear Ratio		18 to 74		18 to 74	18 to 74	18 to 74		25
26	Electric Control—Voltage		64		64	64	64		26
27	Air Brake Schedule		24-RL		24-RL	24-RL	24-RL		27
28	Compressors		One		One	One	One		28
29	" —Make		W.A.B.Co.		W. A. B. Co.	W.A.B.Co.	W. A. B. Co.		29
30	" —Type		3CDC		3-CDC	3-CDC	3-CDB		30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	225		225	225	306		31
32	Brakes—Dynamic		No		Yes	Yes	Yes		32
33	Wt. on Rail—All Drivers	Lb.	360,000		249,000	347,000	348000		33
34	" " " —All Idlers	Lb.	——		——	——	——		34
35	" " " —Total Unit	Lb.	360,000		249,000	347,000	348000		35
36	Maximum Loco. Speed	M.P.H.	60		65	65	65		36
37	Starting Tractive Force, 25% Adhesion	Lb.	90,000		62250	86750	87000		37
38	Max. Continuous Tractive Force	Lb.	78750		53000	79500	79500		38
39	Speed at Max. Cont. Tractive Force	M.P.H.	5		10	6	8.5		39
40	Fuel Tank Capacity—Total	Gals.	1300		1800	2000	2000		40
41	Water " " —Heating, Total	Gals.	——		——	——	——		41
42	" " " —Eng. Cooling, Total	Gals.	250		250	250	320		42
43	Lubricating Oil—Engine, Total	Gals.	200		200	200	250		43
44	Steam Heat Generator—No. Per Unit		——		——	——	——		44
45	" " " —Type		——		——	——	——		45
46	" " " —Each, Lbs. Steam/Hr.		——		——	——	——		46
47									47
48									48
49									49
50									50
51									51
52	Remarks		Hump Control						52

July 1, 1960.

	CLASSIFICATION		BS-6	BS-6a			BS-7	BS-7m	
1	UNIT		——	——			——	——	1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B			B-B	B-B	2
3	Number of Engines, Per Unit		One	One			One	One	3
4	Make of Engine		B-L-H Corp	B-L-H Corp			B-L-H Corp	B-L-H Corp	4
5	Model of Engine		V.O.	606-NA			606-NA	606-NA	5
6	Number of Cylinders, Each Engine		6	6			6	6	6
7	Rated Horsepower, Each Engine		660	660			750	750	7
8	Maximum Governed Speed	R.P.M.	625	625			625	625	8
9	Wheel Diameter	In.	40	40			40	40	9
10	Driving Axles, Number		4	4			4	4	10
11	Idler Axles, Number		——	——			——	——	11
12	Journal, Driving Axle	In.	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12			$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	12
13	" Idler Axle	In.	——	——			——	——	13
14	" Bearings		Plain	Plain			Plain	Plain	14
15	Length of Truck Centers	Ft. In.	22-6	22-8			22-8	22-8	15
16	Wheel Base—Truck	Ft. In.	8-0	8-0			8-0	8-0	16
17	" " —Unit	Ft. In.	30-6	30-8			30-8	30-8	17
18	Coupled Length of Unit	Ft. In.	45-10	46-0			46-0	46-0	18
19	Main Generator		One	One			One	One	19
20	" " —Make		W.E.Corp.	W.E.Corp.			W.E.Corp.	W.E.Corp.	20
21	" " —Type		Δ485-K4	480			480	480-F	21
22	Traction Motors		4	4			4	4	22
23	" " —Make		W.E.Corp.	W.E.Corp.			W.E.Corp.	W.E.Corp.	23
24	" " —Type		362-E 362-D	362-D			362-D	362-D	24
25	" " —Gear Ratio		*16 to 76	14 to 68			14 to 68	14 to 68	25
26	Electric Control—Voltage		112	64			64	64	26
27	Air Brake Schedule		14-EL	6-DS			6-SL 6-DS	6-SL	27
28	Compressors		One	One			One	One	28
29	" —Make		G. D.	W.A.B.Co.			W.A.B.Co.	W.A.B.Co.	29
30	" —Type		W.X.O.	3-CD			3-CD	3-CD	30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	176	193			193	193	31
32	Brakes—Dynamic		No	No			No	No	32
33	Wt. on Rail—All Drivers	Lb.	197,600	196,000			197,600	197,600	33
34	" " " —All Idlers	Lb.	——	——			——	——	34
35	" " " —Total Unit	Lb.	197,600	196,000			197,600	197,600	35
36	Maximum Loco. Speed	M.P.H.	60	60			60	60	36
37	Starting Tractive Force, 25% Adhesion	Lb.	49,400	49,000			49,400	49,400	37
38	Max. Continuous Tractive Force	Lb.	29,200	34,000			34,000	34,000	38
39	Speed at Max. Cont. Tractive Force	M.P.H.	6.5	5.3			6.2	6.2	39
40	Fuel Tank Capacity—Total	Gals.	600	650			650	650	40
41	Water " " —Heating, Total	Gals.	——	——			——	——	41
42	" " " —Eng. Cooling, Total	Gals.	240	295			285	285	42
43	Lubricating Oil—Engine, Total	Gals.	95	165			165	165	43
44	Steam Heat Generator—No. Per Unit		——	——			——	——	44
45	" " " —Type		——	——			——	——	45
46	" " " —Each, Lbs. Steam/Hr.		——	——			——	——	46
47									47
48									48
49									49
50									50
51									51
52	Remarks								52

*Loco. Nos. 5941-5943 have 14 to 68 gear ratio.

ΔLoco. 5907 has 485-H4 Generator.

July 1, 1960.

	CLASSIFICATION		BS-10		BS-10a	BS-10am		BS-10as	
1	UNIT		——		——	——		——	1
2	Wheel Arrangement Symbol	A.A.R.	B-B		B-B	B-B		B-B	2
3	Number of Engines, Per Unit		One		One	One		One	3
4	Make of Engine		B-L-H Corp		B-L-H Corp	B-L-H Corp		B-L-H Corp	4
5	Model of Engine		V.O.		606-SC	606-SC		606-SC	5
6	Number of Cylinders, Each Engine		8		6	6		6	6
7	Rated Horsepower, Each Engine		1000		1000	1000		1000	7
8	Maximum Governed Speed	R.P.M.	625		625	625		625	8
9	Wheel Diameter	In.	40		40	40		42	9
10	Driving Axles, Number		4		4	4		4	10
11	Idler Axles, Number		——		——	——		——	11
12	Journal, Driving Axle	In.	$6\frac{1}{2}$ x 12		$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		$6\frac{1}{2}$ x 12	12
13	" Idler Axle	In.	——		——	——		——	13
14	" Bearings		Plain		Plain	Plain		Plain	14
15	Length of Truck Centers	Ft. In.	25-6		22-8	22-8		32-3	15
16	Wheel Base—Truck	Ft. In.	8-0		8-0	8-0		9-10	16
17	" " —Unit	Ft. In.	33-6		30-8	30-8		42-1	17
18	Coupled Length of Unit	Ft. In.	48-10		46-0	46-0		58-0	18
19	Main Generator		One		One	One		One	19
20	" " —Make		W. E. Corp.		W. E. Corp.	W. E. Corp.		W. E. Corp.	20
21	" " —Type		480		480	480		480	21
22	Traction Motors		4		4	4		4	22
23	" " —Make		W. E. Corp.		W. E. Corp.	W. E. Corp.		W. E. Corp.	23
24	" " —Type		362-D		362-D	362-D		362-D	24
25	" " —Gear Ratio		14 to 68		14 to 68	14 to 68		14 to 68	25
26	Electric Control—Voltage		112		64	64		64	26
27	Air Brake Schedule		6-DS		6-DS	*6-DS		6-DS	27
28	Compressors		One		One	One		One	28
29	" —Make		G.D.		W.A.B.Co.	W.A.B.Co.		W.A.B.Co.	29
30	" —Type		WXO		3-CD	3-CD		3-CD	30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	176		193	193		193	31
32	Brakes—Dynamic		No		No	No		No	32
33	Wt. on Rail—All Drivers	Lb.	240,000		228,500	228,500		240,600	33
34	" " " —All Idlers	Lb.	——		——	——		——	34
35	" " " —Total Unit	Lb.	240,000		228,500	228,500		240,600	35
36	Maximum Loco. Speed	M.P.H.	60		60	60		60	36
37	Starting Tractive Force, 25% Adhesion	Lb.	60,000		57,125	57,125		60,150	37
38	Max. Continuous Tractive Force	Lb.	34,000		34,000	34,000		32,400	38
39	Speed at Max. Cont. Tractive Force	M.P.H.	8.3		9	9		9.5	39
40	Fuel Tank Capacity—Total	Gals.	700		650	650		900	40
41	Water " " —Heating, Total	Gals.	——		——	——		1000	41
42	" " " —Eng. Cooling, Total	Gals.	290		295	295		295	42
43	Lubricating Oil—Engine, Total	Gals.	110		185	185		185	43
44	Steam Heat Generator—No. Per Unit		——		——	——		One	44
45	" " " —Type		——		——	——		Vapor 4516	45
46	" " " —Each, Lbs. Steam/Hr.		——		——	——		1600	46
47									47
48									48
49									49
50									50
51									51
52	Remarks								52

*Loco. Nos. 9429-9434 have 24-RL Brake Equipment.

July 1, 1960.

	CLASSIFICATION		BS-12	BS-12m	BS-12am	BS-12as	BS-12ams		
1	UNIT		——	——	——	——	——		1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B	B-B	B-B	B-B		2
3	Number of Engines, Per Unit		One	One	One	One	One		3
4	Make of Engine		B-L-H Corp	B-L-H Corp	B-L-H Corp	B-L-H Corp	B-L-H Corp		4
5	Model of Engine		606-SC	606-SC	606-A	606-SC	606-SC		5
6	Number of Cylinders, Each Engine		6	6	6	6	6		6
7	Rated Horsepower, Each Engine		1200	1200	1200	1200	1200		7
8	Maximum Governed Speed	R.P.M.	625	625	625	625	625		8
9	Wheel Diameter	In.	40	40	42	42	42		9
10	Driving Axles, Number		4	4	4	4	4		10
11	Idler Axles, Number		——	——	——	——	——		11
12	Journal, Driving Axle	In.	6½ x 12	6½ x 12	6½ x 12	6½ x 12	6½ x 12		12
13	" Idler Axle	In.	——	——	——	——	——		13
14	" Bearings		Plain and Roller	Plain and Roller	Plain	Plain	Roller		14
15	Length of Truck Centers	Ft. In.	22-8	22-8	32-3	32-3	32-3		15
16	Wheel Base—Truck	Ft. In.	8-0	8-0	9-10	9-10	9-10		16
17	" " —Unit	Ft. In.	30-8	30-8	42-1	42-1	42-1		17
18	Coupled Length of Unit	Ft. In.	46-0	46-0	58-0	58-0	58-0		18
19	Main Generator		One	One	One	One	One		19
20	" " —Make		W.E.Corp.	W.E.Corp.	W.E.Corp.	W.E.Corp.	W.E.Corp.		20
21	" " —Type		480	480 FZ	480	480	480		21
22	Traction Motors		4	4	4	4	4		22
23	" " —Make		W.E.Corp.	W.E.Corp.	W.E.Corp.	W.E.Corp.	W.E.Corp.		23
24	" " —Type		362-HZ 362-DF	362-DZ	362-HZ	362-DF	362-HZ 362-DF		24
25	" " —Gear Ratio		14 to 68	14 to 68	14 to 68	14 to 68	14 to 68		25
26	Electric Control—Voltage		64	64	64	64	64		26
27	Air Brake Schedule		6-SL	24-RL	24-RL	6-SL	24-RL		27
28	Compressors		One	One	One	One	One		28
29	" —Make		W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.		29
30	" —Type		3-CD	3-CD	3-CD	3-CD	3-CD		30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	193	193	193	193	193		31
32	Brakes—Dynamic		No	No	No	No	No		32
33	Wt. on Rail—All Drivers	Lb.	228,000	240,000	233,200	243,000	243,000		33
34	" " " —All Idlers	Lb.	——	——	——	——	——		34
35	" " " —Total Unit	Lb.	228,000	240,000	233,200	243,000	243,000		35
36	Maximum Loco. Speed	M.P.H.	60	60	60	60	60		36
37	Starting Tractive Force, 25% Adhesion	Lb.	57,000	60,000	58,300	60,750	60,750		37
38	Max. Continuous Tractive Force	Lb.	34,000	34,000	32,400	32,400	32,400		38
39	Speed at Max. Cont. Tractive Force	M.P.H.	10.8	10.8	11.4	11.4	11.4		39
40	Fuel Tank Capacity—Total	Gals.	650	650	1900	1000	1000		40
41	Water " " —Heating, Total	Gals.	——	——	——	900	900		41
42	" " " —Eng. Cooling, Total	Gals.	250	250	250	250	250		42
43	Lubricating Oil—Engine, Total	Gals.	165	165	165	170	170		43
44	Steam Heat Generator—No. Per Unit		——	——	——	One	*One		44
45	" " " —Type		——	——	——	Vapor OK-4616	Vapor OK-4616		45
46	" " " —Each, Lbs. Steam/Hr.		——	——	——	1600	1600		46
47									47
48									48
49									49
50									50
51									51
52	Remarks					No. 8975	* Nos. 8110 and 8776		52

*Loco. No. 8110 has Steam Generator.
Type, Vapor OK-4625, 2500 lbs. steam/hr.

July 1, 1960.

	CLASSIFICATION		BS-16m	BS-16ms		BS-24	BS-24m		
1	UNIT		——	——		——	——		1
2	Wheel Arrangement Symbol	A.A.R.	C-C	C-C		C-C	C-C		2
3	Number of Engines, Per Unit		One	One		Two	Two		3
4	Make of Engine		B-L-H Corp	B-L-H Corp		B-L-H Corp	B-L-H Corp		4
5	Model of Engine		608-SC	608-SC		606-SC	606-SC		5
6	Number of Cylinders, Each Engine		8	8		6	6		6
7	Rated Horsepower, Each Engine		1600	1600		1200	1200		7
8	Maximum Governed Speed	R.P.M.	625	625		625	625		8
9	Wheel Diameter	In.	42	42		42	42		9
10	Driving Axles, Number		6	6		6	6		10
11	Idler Axles, Number		——	——		——	——		11
12	Journal, Driving Axle	In.	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		12
13	" Idler Axle	In.	——	——		——	——		13
14	" Bearings		Roller	Roller		Roller	Roller		14
15	Length of Truck Centers	Ft. In.	32-3	32-3		41-0	41-0		15
16	Wheel Base—Truck	Ft. In.	13-0	13-0		13-0	13-0		16
17	" " —Unit	Ft. In.	44-6	44-6		54-9	54-9		17
18	Coupled Length of Unit	Ft. In.	58-0	58-0		74-0	74-0		18
19	Main Generator		One	One		Two	Two		19
20	" " —Make		W.E.Corp.	W.E.Corp.		W.E.Corp.	W.E.Corp.		20
21	" " —Type		471	471		480	480		21
22	Traction Motors		6	6		6	6		22
23	" " —Make		W.E.Corp.	W.E.Corp.		W.E.Corp.	W.E.Corp.		23
24	" " —Type		370-DZ	370-DZ		370-DZ	370-DZ		24
25	" " —Gear Ratio		15 to 63	15 to 63		15 to 63	15 to 63		25
26	Electric Control—Voltage		64	64		64	64		26
27	Air Brake Schedule		24-RL	24-RL		24-RL	24-RL		27
28	Compressors		One	One		Two	Two		28
29	" —Make		W.A.B.Co.	W.A.B.Co.		W.A.B.Co.	W.A.B.Co.		29
30	" —Type		3-CD	3-CD		3-CD	3-CD		30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	193	193		193 Each	193 Each		31
32	Brakes—Dynamic		No	No		No	ΔNo		32
33	Wt. on Rail—All Drivers	Lb.	331,000	339,600		359,000	359,000		33
34	" " " —All Idlers	Lb.	——	——		——	——		34
35	" " " —Total Unit	Lb.	331,000	339,600		359,000	359,000		35
36	Maximum Loco. Speed	M.P.H.	60	60		60	60		36
37	Starting Tractive Force, 25% Adhesion	Lb.	82,750	84,900		89,750	89,750		37
38	Max. Continuous Tractive Force	Lb.	72,900	72,900		72,900	72,900		38
39	Speed at Max. Cont. Tractive Force	M.P.H.	6.5	6.5		9.9	9.9		39
40	Fuel Tank Capacity—Total	Gals.	1900	1000		1500	*1500		40
41	Water " " —Heating, Total	Gals.	——	900		——	——		41
42	" " " —Eng. Cooling, Total	Gals.	300	300		500	500		42
43	Lubricating Oil—Engine, Total	Gals.	185	185		320	320		43
44	Steam Heat Generator—No. Per Unit		——	One		——	——		44
45	" " " —Type		——	Vapor OK-4625		——	——		45
46	" " " —Each, Lbs. Steam/Hr.		——	2500		——	——		46
47									47
48									48
49									49
50									50
51				Hump Control					51
52	Remarks		Hump Control	Nos. 8970 8971		Nos. 8952 8953			52

* Loco. Nos. 8724-8731 and 8113 have 2000 Gals. Fuel Oil.

Δ Loco. Nos. 8958-8965 have Dynamic Brakes

July 1, 1960.

	CLASSIFICATION	ES-6 No. 5911	ES-6	ES-10		ES-12	ES-12m	
1	UNIT	——	——	——		——	——	1
2	Wheel Arrangement Symbol A.A.R.	B-B	B-B	B-B		B-B	B-B	2
3	Number of Engines, Per Unit	One	One	One		One	One	3
4	Make of Engine	E.M.D.	E.M.D.	E.M.D.		E.M.D.	E.M.D.	4
5	Model of Engine	8-201-A	6-567-A	12-567-A		12-567-A-B-C	12-567-A-B-C	5
6	Number of Cylinders, Each Engine	6	6	12		12	12	6
7	Rated Horsepower for Propulsion, Each Engine	600	600	1000		1200	1200	7
8	Maximum Governed Speed R.P.M.	800	800	800		800	800	8
9	Wheel Diameter In.	40	40	40		40	40	9
10	Driving Axles, Number	4	4	4		4	4	10
11	Idler Axles, Number	——	——	——		——	——	11
12	Journal, Driving Axle In.	6½ x 12	6½ x 12	6½ x 12		6½ x 12	6½ x 12	12
13	" Idler Axle In.	——	——	——		——	——	13
14	" Bearings	Plain	Plain	Plain		Plain	Plain	14
15	Length of Truck Centers Ft. In.	22-0	22-0	22-0		22-0	22-0	15
16	Wheel Base—Truck Ft. In.	8-0	8-0	8-0		8-0	8-0	16
17	" " —Unit Ft. In.	30-0	30-0	30-0		30-0	30-0	17
18	Coupled Length of Unit Ft. In.	43-7½	44-5	44-5		44-5	44-5	18
19	Main Generator	One	One	One		One	One	19
20	" " —Make	G. E. Co.	E.M.D.	E.M.D.		E.M.D.	E.M.D.	20
21	" " —Type	5GT-534E1	D4D	D4D		D15A	D15A	21
22	Traction Motors	4	4	4		4	4	22
23	" " —Make	G. E. Co.	E.M.D.	E.M.D.		E.M.D.	E.M.D.	23
24	" " —Type	287	D17B	D17B		D27B, D37B, D47	D27B, D37B, D47	24
25	" " —Gear Ratio	16 to 68	15 to 62	15 to 62		15 to 62	15 to 62	25
26	Electric Control—Voltage	64	64	64		64	64	26
27	Air Brake Schedule	14-EL	14-EL 6-BL	14-EL 6-BL		6-BL	24-RL	27
28	Compressors	One	One	One		One	One	28
29	" —Make	G.D.	G.D.	G.D.		G.D.	G.D.	29
30	" —Type	WXE	WXE	WXE		WXO	WXO	30
31	" —Cap. at Full Eng. Speed Cu. Ft.	178	178	178		225	225	31
32	Brakes—Dynamic	No	No	No		No	No	32
33	Wt. on Rail—All Drivers Lb.	206,560	194,000	248,400		246,600	246,600	33
34	" " " —All Idlers Lb.	——	——	——		——	——	34
35	" " " —Total Unit Lb.	206,560	194,000	248,400		246,600	246,600	35
36	Maximum Loco. Speed M.P.H.	40	65	65		65	65	36
37	Starting Tractive Force, 25% Adhesion Lb.	51,640	48,500	62,100		61,650	61,650	37
38	Max. Continuous Tractive Force Lb.	20,000	23,500	30,000		36,000	36,000	38
39	Speed at Max. Cont. Tractive Force M.P.H.	9	7.5	10		10	10	39
40	Fuel Tank Capacity—Total Gals.	600	600	600		*600	*600	40
41	Water " " —Heating, Total Gals.	——	——	——		——	——	41
42	" " " —Eng. Cooling, Total Gals.	135	135	195		223	223	42
43	Lubricating Oil—Engine, Total Gals.	85	85	100		165	165	43
44	Steam Heat Generator—No. Per Unit	——	——	——		——	——	44
45	" " " —Type	——	——	——		——	——	45
46	" " " —Each, Lbs. Steam/Hr.	——	——	——		——	——	46
47								47
48								48
49								49
50								50
51								51
52	Remarks	No. 5911						52

* Loco. Nos. 8513-8544, 7900-7934 have 930 Gals. Fuel Oil.

July 1, 1960.

	CLASSIFICATION		ES-15m	ES-15m	ES-15ms	ES-15ms	ES-15a	ES-17m	
1	UNIT		——	——	——	——	——	——	1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B	B-B	B-B	C-C	C-C	2
3	Number of Engines, Per Unit		One	One	One	One	One	One	3
4	Make of Engine		E.M.D.	E.M.D.	E.M.D.	E.M.D.	E.M.D.	E.M.D.	4
5	Model of Engine		16-567-B	16-567-B	16-567-B	16-567-B	16-567-BC	16-567-C	5
6	Number of Cylinders, Each Engine		16	16	16	16	16	16	6
7	Rated Horsepower, Each Engine		1500	1500	1500	1500	1500	1750	7
8	Maximum Governed Speed	R.P.M.	800	800	800	800	800	835	8
9	Wheel Diameter	In.	40	40	40	40	40	40	9
10	Driving Axles, Number		4	4	4	4	6	6	10
11	Idler Axles, Number		——	——	——	——	——	——	11
12	Journal, Driving Axle	In.	6½ x 12	6½ x 12	6½ x 12	6½ x 12	6½ x 12	6½ x 12	12
13	" Idler Axle	In.	——	——	——	——	——	——	13
14	" Bearings		Roller	Roller	Roller	Roller	Roller	Roller	14
15	Length of Truck Centers	Ft. In.	31-0	31-0	31-0	31-0	35-0	35-0	15
16	Wheel Base—Truck	Ft. In.	9-0	9-0	9-0	9-0	13-7	13-7	16
17	" " —Unit	Ft. In.	40-0	40-0	40-0	40-0	48-7	48-7	17
18	Coupled Length of Unit	Ft. In.	56-2	56-2	56-2	56-2	60-8½	60-8½	18
19	Main Generator		One	One	One	One	One	One	19
20	" " —Make		E.M.D.	E.M.D.	E.M.D.	E.M.D.	E.M.D.	E.M.D.	20
21	" " —Type		D12B	D12B	D12B	D12B	D12	D12B	21
22	Traction Motors		4	4	4	4	6	6	22
23	" " —Make		E.M.D.	E.M.D.	E.M.D.	E.M.D.	E.M.D.	E.M.D.	23
24	" " —Type		D27B	D27B	D27B	D27B	D27E	D47	24
25	" " —Gear Ratio		15 to 62	15 to 62	15 to 62	15 to 62	12 to 65	15 to 62	25
26	Electric Control—Voltage		64	64	64	64	64	64	26
27	Air Brake Schedule		24-RL	24-RL	24-RL	24-RL	24-RL	24-RL	27
28	Compressors		One	One	One	One	One	One	28
29	" —Make		G.D.	G.D.	G.D.	G.D.	G.D.	G.D.	29
30	" —Type		WXO	WXO	WXO	WXO	WXG	WXG	30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	225	225	225	225	365	365	31
32	Brakes—Dynamic		Yes	*No	No	No	Yes	Yes	32
33	Wt. on Rail—All Drivers	Lb.	250,400	245,600	249,000	252,000	360,000	356,000	33
34	" " " —All Idlers	Lb.	——	——	——	——	——	——	34
35	" " " —Total Unit	Lb.	250,400	245,600	249,000	252,000	360,000	356,000	35
36	Maximum Loco. Speed	M.P.H.	65	65	65	65	55	65	36
37	Starting Tractive Force, 25% Adhesion	Lb.	62,600	61,400	62,250	63,000	90,000	89,000	37
38	Max. Continuous Tractive Force	Lb.	40,000	40,000	40,000	40,000	87,700	89,000	38
39	Speed at Max. Cont. Tractive Force	M.P.H.	11	11	11	11	4.6		39
40	Fuel Tank Capacity—Total	Gals.	1600	1600	800	800	2400	2400	40
41	Water " " —Heating, Total	Gals.	——	——	800	800	——	——	41
42	" " " —Eng. Cooling, Total	Gals.	230	230	230	230	260	260	42
43	Lubricating Oil—Engine, Total	Gals.	200	200	200	200	200	200	43
44	Steam Heat Generator—No. Per Unit		——	——	One	One	——	——	44
45	" " " —Type		——	——	Vapor OK-4625	Vapor OK-4625	——	——	45
46	" " " —Each, Lbs. Steam/Hr.		——	——	2500	2500	——	——	46
47									47
48									48
49									49
50									50
51							Note 3		51
52	Remarks		Note 1			Note 2	Madison Hill No. 8588, 8589		52

Note 1.—Weights for Loco. Nos. 8564 and 8567 only.

Note 2.—Weights for Loco. Nos. 8551-8553 only.

Note 3.—Locos. have Hump Control and "Vapor 4015" Water Heater.

*Loco. Nos. 8503-8508, 8554-8582 have Dynamic Brake.

July 1, 1960.

	CLASSIFICATION	FS-10			FS-12	FS-12m		
1	UNIT	——			——	——		1
2	Wheel Arrangement Symbol A.A.R.	B-B			B-B	B-B		2
3	Number of Engines, Per Unit	One			One	One		3
4	Make of Engine	F.M. Co.			F.M. Co.	F.M. Co.		4
5	Model of Engine	38D8⅛			38D8⅛	38D8⅛		5
6	Number of Cylinders, Each Engine	6			6	6		6
7	Rated Horsepower, Each Engine	1000			1200	1200		7
8	Maximum Governed Speed R.P.M.	800			850	850		8
9	Wheel Diameter In.	40			40	40		9
10	Driving Axles, Number	4			4	4		10
11	Idler Axles, Number	——			——	——		11
12	Journal, Driving Axle In.	6½ x 12			6½ x 12	6½ x 12		12
13	" Idler Axle In.	——			——	——		13
14	" Bearings	Plain			Plain	Plain		14
15	Length of Truck Centers Ft. In.	25-6			25-6	25-6		15
16	Wheel Base—Truck Ft. In.	8-0			8-0	8-0		16
17	" " —Unit Ft. In.	33-6			33-6	33-6		17
18	Coupled Length of Unit Ft. In.	48-10			48-10	48-10		18
19	Main Generator	One			One	One		19
20	" " —Make	*W.E. Corp. F.M. Co.			F. M. Co.	F. M. Co.		20
21	" " —Type	*481-B DGZ-J			DGZ-J	DGZ-J		21
22	Traction Motors	4			4	4		22
23	" " —Make	*W.E. Corp. F.M. Co.			F. M. Co.	F. M. Co.		23
24	" " —Type	*362-D DRZ-H			DRZ-H	DRZ-H		24
25	" " —Gear Ratio	14 to 68			14 to 68	14 to 68		25
26	Electric Control—Voltage	*112 64			64	64		26
27	Air Brake Schedule	6-DS			6-SL	24-RL		27
28	Compressors	One			One	One		28
29	" —Make	W.A.B.Co.			W.A.B.Co.	W.A.B.Co.		29
30	" —Type	3-CD			3-CD	3-CD		30
31	" —Cap. at Full Eng. Speed Cu. Ft.	246			260	260		31
32	Brakes—Dynamic	No			No	No		32
33	Wt. on Rail—All Drivers Lb.	242,000			246,800	249,000		33
34	" " " —All Idlers Lb.	——			——	——		34
35	" " " —Total Unit Lb.	242,000			246,800	249,000		35
36	Maximum Loco. Speed M.P.H.	60			60	60		36
37	Starting Tractive Force, 25% Adhesion Lb.	60,500			61,700	62,250		37
38	Max. Continuous Tractive Force Lb.	34,000			34,000	34,000		38
39	Speed at Max. Cont. Tractive Force M.P.H.	8.9			11.3	11.3		39
40	Fuel Tank Capacity—Total Gals.	750			1150	1150		40
41	Water " " —Heating, Total Gals.	——			——	——		41
42	" " " —Eng. Cooling, Total Gals.	135			135	135		42
43	Lubricating Oil—Engine, Total Gals.	250			250	250		43
44	Steam Heat Generator—No. Per Unit	——			——	——		44
45	" " " —Type	——			——	——		45
46	" " " —Each, Lbs. Steam/Hr.	——			——	——		46
47								47
48								48
49								49
50								50
51								51
52	Remarks							52

* Loco. Nos. 9080, 9085-9099 have F.M. Co. Generators and Motors.

July 1, 1960.

	CLASSIFICATION		FS-16m	FS-20	FS-20m		FS-24m		
1	UNIT		——	——	——		——		1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B	B-B		C-C		2
3	Number of Engines, Per Unit		One	One	One		One		3
4	Make of Engine		F.M. Co.	F.M. Co.	F.M. Co.		F.M. Co.		4
5	Model of Engine		38D8$\frac{1}{8}$	38D8$\frac{1}{8}$	38D8$\frac{1}{8}$		38D8$\frac{1}{8}$		5
6	Number of Cylinders, Each Engine		8	10	10		12		6
7	Rated Horsepower, Each Engine		1600	2000	2000		2400		7
8	Maximum Governed Speed	R.P.M.	850	850	850		850		8
9	Wheel Diameter	In.	42	42	42		40		9
10	Driving Axles, Number		4	4	4		6		10
11	Idler Axles, Number		——	——	——		——		11
12	Journal, Driving Axle	In.	6$\frac{1}{2}$ x 12	7 x 14	7 x 14		6$\frac{1}{2}$ x 12		12
13	" Idler Axle	In.	——	——	——		——		13
14	" Bearings		Roller	Roller	Roller		Roller		14
15	Length of Truck Centers	Ft. In.	30-0	27-0	27-0		41-6		15
16	Wheel Base—Truck	Ft. In.	9-4	9-6	9-6		13-0		16
17	" " —Unit	Ft. In.	39-4	36-6	36-6		49-3$\frac{3}{4}$		17
18	Coupled Length of Unit	Ft. In.	54-0	51-0	51-0		66-0		18
19	Main Generator		One	One	One		One		19
20	" " —Make		W.E.Corp.	W.E.Corp.	W.E.Corp.		G. E. Co.		20
21	" " —Type		472	474-A	474-A		GT-567		21
22	Traction Motors		4	4	4		6		22
23	" " —Make		W.E.Corp.	W.E.Corp.	W.E.Corp.		G. E. Co.		23
24	" " —Type		370-DEZ	370-D	370-D		752-E1		24
25	" " —Gear Ratio		15 to 63	15 to 63	15 to 63		18 to 74		25
26	Electric Control—Voltage		64	64	64		64		26
27	Air Brake Schedule		24-RL	24-RL	24-RL		24-RL		27
28	Compressors		One	One	One		One		28
29	" —Make		W.A.B.Co.	W.A.B.Co.	W.A.B.Co.		W.A.B. Co.		29
30	" —Type		3-CD	3-CD	3-CD		3-CD		30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	260	260	260		260		31
32	Brakes—Dynamic		No	No	No		Yes		32
33	Wt. on Rail—All Drivers	Lb.	256,000	254,000	254,000		376,000		33
34	" " " —All Idlers	Lb.	——	——	——		——		34
35	" " " —Total Unit	Lb.	256,000	254,000	254,000		376,000		35
36	Maximum Loco. Speed	M.P.H.	70	65	65		66		36
37	Starting Tractive Force, 25% Adhesion	Lb.	64,000	63,500	63,500		94,000		37
38	Max. Continuous Tractive Force	Lb.	48,600	42,800	42,800		79500		38
39	Speed at Max. Cont. Tractive Force	M.P.H.	9.9	14.7	14.7		8.6		39
40	Fuel Tank Capacity—Total	Gals.	1640	1200	1200		4200		40
41	Water " " —Heating, Total	Gals.	——	——	——		——		41
42	" " " —Eng. Cooling, Total	Gals.	175	221	221		250		42
43	Lubricating Oil—Engine, Total	Gals.	300	350	350		385		43
44	Steam Heat Generator—No. Per Unit		——	——	——		——		44
45	" " " —Type		——	——	——		——		45
46	" " " —Each, Lbs. Steam/Hr.		——	——	——		——		46
47									47
48									48
49									49
50									50
51									51
52	Remarks								52

July 1, 1960.

	CLASSIFICATION		GS-4	GS-4m		LS-25	LS-25m		
1	UNIT		——	——		——	——		1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B		C-C	C-C		2
3	Number of Engines, Per Unit		Two	Two		Two	Two		3
4	Make of Engine		Caterpillar	Caterpillar		Hamilton	Hamilton		4
5	Model of Engine		D17000	D17000		T-89-SA	T-89-SA		5
6	Number of Cylinders, Each Engine		8	8		8	8		6
7	Rated Horsepower, Each Engine		*190/200	*190/200		1250	1250		7
8	Maximum Governed Speed	R.P.M.	1000	1000		950	950		8
9	Wheel Diameter	In.	33	33		42	42		9
10	Driving Axles, Number		4	4		6	6		10
11	Idler Axles, Number		——	——		——	——		11
12	Journal, Driving Axle	In.	5 x 9	5 x 9		6½ x 12	6½ x 12		12
13	" Idler Axle	In.	——	——		——	——		13
14	" Bearings		Plain	Plain		Plain	Plain		14
15	Length of Truck Centers	Ft. In.	18-9	18-9		49-0	49-0		15
16	Wheel Base—Truck	Ft. In.	6-10	6-10		13-0	13-0		16
17	" " —Unit	Ft. In.	25-7	25-7		61-3	61-3		17
18	Coupled Length of Unit	Ft. In.	33-5	33-5		79-0	79-0		18
19	Main Generator		Two	Two		Two	Two		19
20	" " —Make		G. E. Co.	G. E. Co.		W.E.Corp.	W.E.Corp.		20
21	" " —Type		GT-555	GT-555		499-B	499-B		21
22	Traction Motors		4	4		6	6		22
23	" " —Make		G. E. Co.	G. E. Co.		W.E.Corp.	W.E.Corp.		23
24	" " —Type		733	733		370-DZ	370-DZ		24
25	" " —Gear Ratio		15 to 26 23 to 51	15 to 26 23 to 51		15 to 63	15 to 63		25
26	Electric Control—Voltage		64	64		64	64		26
27	Air Brake Schedule		14-EL	14-EL		24-RL	24-RL		27
28	Compressors		Two	Two		Two	Two		28
29	" —Make		G. D.	G. D.		W.A.B.Co.	W.A.B.Co.		29
30	" —Type		ADS	ADS		3-CDC	3-CDC		30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	50 Each	50 Each		214 Each	214 Each		31
32	Brakes—Dynamic		No	No		No	*No		32
33	Wt. on Rail—All Drivers	Lb.	88,550	88,550		362,000	362,000		33
34	" " " —All Idlers	Lb.	——	——		——	——		34
35	" " " —Total Unit	Lb.	88,550	88,550		362,000	362,000		35
36	Maximum Loco. Speed	M.P.H.	30	30		70	70		36
37	Starting Tractive Force, 25% Adhesion	Lb.	22,137	22,137		90,500	90,500		37
38	Max. Continuous Tractive Force	Lb.	13,000	13,000		64,000	64,000		38
39	Speed at Max. Cont. Tractive Force	M.P.H.	7.2	7.2		11.5	11.5		39
40	Fuel Tank Capacity—Total	Gals.	250	250		1200	1200		40
41	Water " " —Heating, Total	Gals.	——	——		——	——		41
42	" " " —Eng. Cooling, Total	Gals.	80	80		450	450		42
43	Lubricating Oil—Engine, Total	Gals.	100	100		290	290		43
44	Steam Heat Generator—No. Per Unit		——	——		——	——		44
45	" " " —Type		——	——		——	——		45
46	" " " —Each, Lbs. Steam/Hr.		——	——		——	——		46
47									47
48									48
49									49
50									50
51									51
52	Remarks								52

*—Horsepowers shown are total including horsepower required for auxiliaries. Horsepowers for propulsion are 165 and 175 respectively.

*Loco. Nos. 8948, 8949 have Dynamic Brakes.

July 1, 1960.

ROAD SERVICE

SWITCHING DIESEL-ELECTRIC LOCOMOTIVES

	CLASSIFICATION		APS-24ms	EFS-17m	EFS-17m	
1	UNIT		——	——	B	1
2	Wheel Arrangement Symbol A.A.R.		C-C	B-B	B-B	2
3	Number of Engines, Per Unit		One	One	One	3
4	Make of Engine		Alco	E. M. D.	E. M. D.	4
5	Model of Engine		244-G	16-567-C	16-567-C	5
6	Number of Cylinders, Each Engine		16	16	16	6
7	Rated Horsepower, Each Engine		2400	1750	1750	7
8	Maximum Governed Speed R.P.M.		1000	835	835	8
9	Wheel Diameter In.		40	40	40	9
10	Driving Axles, Number		6	4	4	10
11	Idler Axles, Number		——	——	——	11
12	Journal, Driving Axle In.		$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	12
13	" Idler Axle In.		——	——	——	13
14	" Bearings		Roller	Roller	Roller	14
15	Length of Truck Centers Ft. In.		43-6	31-0	31-0	15
16	Wheel Base—Truck Ft. In.		12-6	9-0	9-0	16
17	" " —Unit Ft. In.		51-0	40-0	40-0	17
18	Coupled Length of Unit Ft. In.		65-1	56-2	56-2	18
19	Main Generator		One	One	One	19
20	" " —Make		G. E. Co.	E. M. D.	E. M. D.	20
21	" " —Type		GT-586	D12B	D12B	21
22	Traction Motors		6	4	4	22
23	" " —Make		G. E. Co.	E. M. D.	E. M. D.	23
24	" " —Type		752	ΔD37B	D47B	24
25	" " —Gear Ratio		18 to 65	15 to 62	15 to 62	25
26	Electric Control—Voltage		64	64	64	26
27	Air Brake Schedule		24-RL	Δ24-RL	Δ24-RL	27
28	Compressors		One	One	One	28
29	" —Make		W. A. B. Co.	G. D.	G. D.	29
30	" —Type		3-CDB	*WXO	WBO	30
31	" —Cap. at Full Eng. Speed Cu. Ft.		306	225	235	31
32	Brakes—Dynamic		Yes	Yes	Yes	32
33	Wt. on Rail—All Drivers Lb.		366000	249000	248,000	33
34	" " " —All Idlers Lb.		——	——	——	34
35	" " " —Total Unit Lb.		366000	249000	248,000	35
36	Maximum Loco. Speed M.P.H.		75	65	65	36
37	Starting Tractive Force, 25% Adhesion Lb.		91500	62250	62,000	37
38	Max. Continuous Tractive Force Lb.		69800			38
39	Speed at Max. Cont. Tractive Force M.P.H.		9			39
40	Fuel Tank Capacity—Total Gals.		1350	*1600	1700	40
41	Water " " —Heating, Total Gals.		2000	——	——	41
42	" " " —Eng. Cooling, Total Gals.		280	230	230	42
43	Lubricating Oil—Engine, Total Gals.		230	200	200	43
44	Steam Heat Generator—No. Per Unit		One	——	——	44
45	" " " —Type		Vapor OK-4740	——	——	45
46	" " " —Each, Lbs. Steam/Hr.		4500	——	——	46
47						47
48						48
49						49
50						50
51						51
52	Remarks					52

* Loco. Nos. 7105-7269 have W.B.O. Compressors and 1700 Gal. Fuel Oil.

Δ Locos. Nos. 7230-7269, 7230-B-7239-B have 26-L Air Brake Schedule and D47-B Motors.

July 1, 1960.

	CLASSIFICATION		AF-15	AF-15	AF-16	AF-16	AFP-20	AFP-20	
1	UNIT		A	B	A	B	A	B	1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B	B-B	B-B	A1A-A1A	A1A-A1A	2
3	Number of Engines, Per Unit		One	One	One	One	One	One	3
4	Make of Engine		Alco	Alco	Alco	Alco	Alco	Alco	4
5	Model of Engine		244-B	244-B	244-D	244-D	244-B	244-B	5
6	Number of Cylinders, Each Engine		12	12	12	12	16	16	6
7	Rated Horsepower, Each Engine		1500	1500	1600	1600	2000	2000	7
8	Maximum Governed Speed	R.P.M.	1000	1000	1000	1000	1000	1000	8
9	Wheel Diameter	In.	40	40	40	40	40	40	9
10	Driving Axles, Number		4	4	4	4	4	4	10
11	Idler Axles, Number		——	——	——	——	Two	Two	11
12	Journal, Driving Axle	In.	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	12
13	" Idler Axle	In.	——	——	——	——	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	13
14	" Bearings		Roller	Roller	Roller	Roller	Roller	Roller	14
15	Length of Truck Centers	Ft. In.	27-2	27-2	29-2	29-2	34-2	34-2	15
16	Wheel Base—Truck	Ft. In.	9-4	9-4	9-4	9-4	15-6	15-6	16
17	" " —Unit	Ft. In.	36-6	36-6	38-6	38-6	49-8	49-8	17
18	Coupled Length of Unit	Ft. In.	51-6	50-2	53-6	52-8	65-8	63-6	18
19	Main Generator		One	One	One	One	One	One	19
20	" " —Make		G.E. Co.	G.E. Co.	G.E. Co.	G.E. Co.	G.E.Co.	G.E.Co.	20
21	" " —Type		GT-564	GT-564	GT-581	GT-581	GT-566	GT-566	21
22	Traction Motors		4	4	4	4	4	4	22
23	" " —Make		G.E. Co.	G.E. Co.	G.E. Co.	G.E. Co.	G.E.Co.	G.E.Co.	23
24	" " —Type		752	752	752	752	752	752	24
25	" " —Gear Ratio		18 to 74	18 to 74	18 to 74	18 to 74	19 to 64	19 to 64	25
26	Electric Control—Voltage		64	64	64	64	64	64	26
27	Air Brake Schedule		24-RL	24-RL	24-RL	24-RL	24-RL	24-RL	27
28	Compressors		One	One	One	One	One	One	28
29	" —Make		W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	29
30	" —Type		3-CDC 3-CDB	3-CDC 3-CDB	3-CDC	3-CDC	3-CDB	3-CDB	30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	225 306	225 306	225	225	306	306	31
32	Brakes—Dynamic		Yes	Yes	Yes	Yes	No	No	32
33	Wt. on Rail—All Drivers	Lb.	224,600	235,200	246,400	245,200	208,100	204,600	33
34	" " " —All Idlers	Lb.	——	——	——	——	104,100	102,300	34
35	" " " —Total Unit	Lb.	224,600	235,200	246,400	245,200	312,200	306,900	35
36	Maximum Loco. Speed	M.P.H.	65	65	65	65	80.5	80.5	36
37	Starting Tractive Force, 25% Adhesion	Lb.	61,150	58,800	61,600	61,300	52,025	51,150	37
38	Max. Continuous Tractive Force	Lb.	42,500	42,500	52,500	52,500	35,000	35,000	38
39	Speed at Max. Cont. Tractive Force	M.P.H.	11	11	9.5	9.5	17.5	17.5	39
40	Fuel Tank Capacity—Total	Gals.	1200	1200	1200	1200	1200	1200	40
41	Water " " —Heating, Total	Gals.	——	——	——	——	1300	1900	41
42	" " " —Eng. Cooling, Total	Gals.	250	250	250	250	330	330	42
43	Lubricating Oil—Engine, Total	Gals.	200	200	200	200	230	230	43
44	Steam Heat Generator—No. Per Unit		——	——	——	——	One	One	44
45	" " " —Type		——	——	——	——	Vapor DRK-4530	Vapor DRK-4530	45
46	" " " —Each, Lbs. Steam/Hr.		——	——	——	——	3000	3000	46
47									47
48									48
49									49
50									50
51									51
52	Remarks						Note 1	Note 1	52

Note 1.—Locos. converted from Pass. AP-20.

July 1, 1960.

	CLASSIFICATION		BF-15	BF-15		BF-15a	BF-15a		
1	UNIT		A	B		A	B		1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B		B-B	B-B		2
3	Number of Engines, Per Unit		One	One		One	One		3
4	Make of Engine		B-L-H Corp	B-L-H Corp		B-L-H Corp	B-L-H Corp		4
5	Model of Engine		608-SC	608-SC		608-SC	608-SC		5
6	Number of Cylinders, Each Engine		8	8		8	8		6
7	Rated Horsepower, Each Engine		1500	1500		1500	1500		7
8	Maximum Governed Speed	R.P.M.	625	625		625	625		8
9	Wheel Diameter	In.	42	42		42	42		9
10	Driving Axles, Number		4	4		4	4		10
11	Idler Axles, Number		——	——		——	——		11
12	Journal, Driving Axle	In.	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		12
13	" Idler Axle	In.	——	——		——	——		13
14	" Bearings		Roller	Roller		Roller	Roller		14
15	Length of Truck Centers	Ft. In.	28-2	28-2		28-2	28-2		15
16	Wheel Base—Truck	Ft. In.	9-10	9-10		9-10	9-10		16
17	" " —Unit	Ft. In.	38-0	38-0		38-0	38-0		17
18	Coupled Length of Unit	Ft. In.	54-$4\frac{1}{2}$	52-7		54-8	53-2		18
19	Main Generator		One	One		One	One		19
20	" " —Make		W.E.Corp.	W.E.Corp.		W.E.Corp.	W.E.Corp.		20
21	" " —Type		471-A	471-A		471	471		21
22	Traction Motors		4	4		4	4		22
23	" " —Make		W.E.Corp.	W.E.Corp.		W.E.Corp.	W.E.Corp.		23
24	" " —Type		370-G	370-G		370-GL	370-GL		24
25	" " —Gear Ratio		15 to 63	15 to 63		15 to 63	15 to 63		25
26	Electric Control—Voltage		64	64		64	64		26
27	Air Brake Schedule		24-RL	24-RL		24-RL	24-RL		27
28	Compressors		One	One		One	One		28
29	" —Make		W.A.B.Co.	W.A.B.Co.		W.A.B.Co.	W.A.B.Co.		29
30	" —Type		3-CD	3-CD		3-CD	3-CD		30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	193	193		193	193		31
32	Brakes—Dynamic		Yes	Yes		Yes	Yes		32
33	Wt. on Rail—All Drivers	Lb.	266,000	257,000		257,800	250,400		33
34	" " " —All Idlers	Lb.	——	——		——	——		34
35	" " " —Total Unit	Lb.	266,000	257,000		257,800	250,400		35
36	Maximum Loco. Speed	M.P.H.	65	65		65	65		36
37	Starting Tractive Force, 25% Adhesion	Lb.	66,500	64,250		64,450	62,600		37
38	Max. Continuous Tractive Force	Lb.	43,000	43,000		42,800	42,800		38
39	Speed at Max. Cont. Tractive Force	M.P.H.	11	11		10.5	10.5		39
40	Fuel Tank Capacity—Total	Gals.	1200	1200		1200	1200		40
41	Water " " —Heating, Total	Gals.	——	——		——	——		41
42	" " " —Eng. Cooling, Total	Gals.	325	325		310	369		42
43	Lubricating Oil—Engine, Total	Gals.	190	190		215	215		43
44	Steam Heat Generator—No. Per Unit		——	——		——	——		44
45	" " " —Type		——	——		——	——		45
46	" " " —Each, Lbs. Steam/Hr.		——	——		——	——		46
47									47
48									48
49									49
50									50
51									51
52	Remarks		Note 1	Note 1					52

Note 1.—Loco. Nos. 9588-9593 have 7" x 13" Journal Bearings.

	CLASSIFICATION		BF-16	BF-16	BF-16z	BF-16z	ABF-18	ABF-18	
1	UNIT		A	B	A	B	A	B	1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B	A1A-A1A	A1A-A1A	B-B	B-B	2
3	Number of Engines, Per Unit		One	One	Two	Two	One	One	3
4	Make of Engine		B-L-H Corp	B-L-H Corp	B-L-H Corp	B-L-H Corp	Alco	Alco	4
5	Model of Engine		608-SC	608-SC	606-SC	606-SC	251	251	5
6	Number of Cylinders, Each Engine		8	8	6	6	12	12	6
7	Rated Horsepower, Each Engine		1600	1600	800	800	1800	1800	7
8	Maximum Governed Speed	R.P.M.	625	625	625	625	1000	1000	8
9	Wheel Diameter	In.	42	42	42	42	42	42	9
10	Driving Axles, Number		4	4	4	4	4	4	10
11	Idler Axles, Number		——	——	Two	Two	——	——	11
12	Journal, Driving Axle	In.	6½ x 12	6½ x 12	7 x 13	7 x 13	6½ x 12	6½ x 12	12
13	" Idler Axle	In.	——	——	7 x 13	7 x 13	——	——	13
14	" Bearings		Roller	Roller	Roller	Roller	Roller	Roller	14
15	Length of Truck Centers	Ft. In.	28-2	28-2	46-3½	46-3½	28-2	28-2	15
16	Wheel Base—Truck	Ft. In.	9-10	9-10	15-6	15-6	9-10	9-10	16
17	" " —Unit	Ft. In.	38-0	38-0	61-9½	61-9½	38-0	38-0	17
18	Coupled Length of Unit	Ft. In.	54-8	53-2	80-0	78-2½	54-8	52-7	18
19	Main Generator		One	One	Two	Two	One	One	19
20	" " —Make		W.E.Corp.	W.E.Corp.	W.E.Corp.	W.E.Corp.	G. E. Co.	G. E. Co.	20
21	" " —Type		471-B	471-B	471-A	471-A	GT-581	GT-581	21
22	Traction Motors		4	4	4	4	4	4	22
23	" " —Make		W.E.Corp.	W.E.Corp.	W.E.Corp.	W.E.Corp.	W.E.Corp.	W.E.Corp.	23
24	" " —Type		370-DZ	370-DZ	370-DP	370-DP	370-DZ	370-G	24
25	" " —Gear Ratio		15 to 63	15 to 63	15 to 63	15 to 63	15 to 63	15 to 63	25
26	Electric Control—Voltage		64	64	64	64	64	64	26
27	Air Brake Schedule		24-RL	24-RL	24-RL	24-RL	24-RL	24-RL	27
28	Compressors		One	One	Two	Two	One	One	28
29	" —Make		W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	29
30	" —Type		3-CD	3-CD	3-CD	3-CD	3-CDC	3-CDC	30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	193	193	193 Each	193 Each	225	225	31
32	Brakes—Dynamic		Yes	Yes	No	No	Yes	Yes	32
33	Wt. on Rail—All Drivers	Lb.	257,800	250,400	257,200	250,000	249,000	246,000	33
34	" " " —All Idlers	Lb.	——	——	129,900	124,500	——	——	34
35	" " " —Total Unit	Lb.	257,800	250,400	387,100	374,500	249,000	246,000	35
36	Maximum Loco. Speed	M.P.H.	70	70	65	65	65	65	36
37	Starting Tractive Force, 25% Adhesion	Lb.	64,450	62,600	64,300	62,500	62,250	61,500	37
38	Max. Continuous Tractive Force	Lb.	48,600	48,600	42,800	42,800	48,600	48,600	38
39	Speed at Max. Cont. Tractive Force	M.P.H.	9.9	9.9	11.3	11.3	11.2	11.2	39
40	Fuel Tank Capacity—Total	Gals.	1200	1200	1200	1200	1200	1200	40
41	Water " " —Heating, Total	Gals.	——	——	1810	2310	——	——	41
42	" " " —Eng. Cooling, Total	Gals.	310	369	575	575	315	315	42
43	Lubricating Oil—Engine, Total	Gals.	215	215	330	330	200	200	43
44	Steam Heat Generator—No. Per Unit		——	——	One	One	——	——	44
45	" " " —Type		——	——	Vapor DRK-4530	Vapor DRK-4530	——	——	45
46	" " " —Each, Lbs. Steam/Hr.		——	——	3000	3000	——	——	46
47									47
48									48
49									49
50									50
51									51
52	Remarks				Note 1	Note 1	Note 2	Note 3	52

Note 1.—Locos. converted from Pass. BP-20.

Note 2.—Locos. converted from BF-16.

Note 3.—Locos. converted from BF-15.

July 1, 1960.

	CLASSIFICATION	BH-50				
1	Wheel Arrangement Symbol A.A.R.	*2(2-D+D-2)				1
2	Number of Engines, Each Cab	Two				2
3	Make of Engines	B-L-H Corp.				3
4	Model of Engine	608-SC				4
5	Number of Cylinders, Each Engine	8				5
6	Rated Horsepower, Each Engine	1250				6
7	Maximum Governed Speed R.P.M.	625				7
8	Wheel Diameter In.	42				8
9	Driving Axles, Number, Each Cab	8				9
10	Truck Axles, " " "	4				10
11	Journal, Driving Axle In.	7 x 13				11
12	" Truck Axle In.	7 x 13				12
13	" Bearings	Roller				13
14	Length of Truck Centers, Each Cab Ft. In.	66-0				14
15	Wheel Base, Engine Truck Ft. In.	7-2				15
16	" " Driving Truck, Ft. In.	31-5				16
17	" " " " Rigid Ft. In.	16-9				17
18	" " Each Cab Ft. In.	73-2				18
19	" " Total Loco. Ft. In.	164-8				19
20	Coupled Length, Total Loco. Ft. In.	183-0				20
21	Main Generator, Each Cab	Two				21
22	" " Make	W.E.Corp.				22
23	" " Type	471-A				23
24	Traction Motors, Each Cab	8				24
25	" " Make	W.E.Corp.				25
26	" " Type	370-F				26
27	" " Gear Ratio	17 to 62				27
28	Electric Control—Voltage Total	64				28
29	Air Brake Schedule	24-RL				29
30	Compressors, Each Cab	Two				30
31	" Make	W.A.B.Co.				31
32	" Type	3-CD				32
33	" Cap. at Full Eng. Speed Cu. Ft.	193 Each				33
34	Brakes, Dynamic	No				34
35	Weight on Rail, Front Engine Truck Lb.	94,070				35
36	" " " Rear " " Lb.	90,640				36
37	" " " Front Driving Truck Lb.	204,000				37
38	" " " Rear " " Lb.	205,000				38
39	" " " All Drivers, Total Loco. Lb.	818,000				39
40	" " " Total Loco. Lb.	1,187,420				40
41	Maximum Loco. Speed M.P.H.	75				41
42	Starting Tract. Force, at 25% Adhesion Lb.	204,500				42
43	Max. Continuous Tractive Force Lb.	147,200				43
44	Speed at Max. Cont. Tractive Force M.P.H.	9.8				44
45	Fuel Tank Cap., Total Loco. Gals.	7000				45
46	Water " " Heating, Total Loco. Gals.	5000				46
47	" " " Eng. Cooling, Tot. Loco. Gals.	1200				47
48	Lubricating Oil, Engine, Total Loco. Gals.	760				48
49	Steam Heat Generator, No. Per Cab	One				49
50	" " " Type	Vapor—4530				50
51	" " " Each, Lbs. Steam/Hr.	3000				51
52	Train Phone & Cab Signals	Yes				52

*—Single Unit locomotive made up of two (2) cabs and frames connected by a draw bar, and cannot be used as separate units.
Converted from BP-60a.

July 1, 1960.

	CLASSIFICATION		EF-15	EF-15		EF-15a	EF-15a		
1	UNIT		A	B		A	B		1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B		B-B	B-B		2
3	Number of Engines, Per Unit		One	One		One	One		3
4	Make of Engine		E.M.D.	E.M.D.		E.M.D.	E.M.D.		4
5	Model of Engine		16-567-B	16-567-B		16-567-B	16-567-B		5
6	Number of Cylinders, Each Engine		16	16		16	16		6
7	Rated Horsepower, Each Engine		1500	1500		1500	1500		7
8	Maximum Governed Speed	R.P.M.	800	800		800	800		8
9	Wheel Diameter	In.	40	40		40	40		9
10	Driving Axles, Number		4	4		4	4		10
11	Idler Axles, Number		——	——		——	——		11
12	Journal, Driving Axle	In.	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		12
13	" Idler Axle	In.	——	——		——	——		13
14	" Bearings		Roller	Roller		Roller	Roller		14
15	Length of Truck Centers	Ft. In.	30-0	30-0		30-0	30-0		15
16	Wheel Base—Truck	Ft. In.	9-0	9-0		9-0	9-0		16
17	" " —Unit	Ft. In.	39-0	39-0		39-0	39-0		17
18	Coupled Length of Unit	Ft. In.	50-$8\frac{3}{8}$	50-$0\frac{3}{4}$		50-8	50-0		18
19	Main Generator		One	One		One	One		19
20	" " —Make		E.M.D.	E.M.D.		E.M.D.	E.M.D.		20
21	" " —Type		D-12	D-12		D-12	D-12		21
22	Traction Motors		4	4		4	4		22
23	" " —Make		E.M.D.	E.M.D.		E.M.D.	E.M.D.		23
24	" " —Type		D17B	D17B		D27B	D27B		24
25	" " —Gear Ratio		15 to 62	15 to 62		15 to 62	15 to 62		25
26	Electric Control—Voltage		64	64		64	64		26
27	Air Brake Schedule		24-RL	24-RL		24-RL	24-RL		27
28	Compressors		One	One		One	One		28
29	" —Make		G.D.	G.D.		G.D.	G.D.		29
30	" —Type		WXE	WXE		WXO WXE	WXO WXE		30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	180	180		225 180	225 180		31
32	Brakes—Dynamic		Yes	Yes		Yes	Yes		32
33	Wt. on Rail—All Drivers	Lb.	238,000	227,000		234,000	230,600		33
34	" " " —All Idlers	Lb.	——	——		——	——		34
35	" " " —Total Unit	Lb.	238,000	227,000		234,000	230,600		35
36	Maximum Loco. Speed	M.P.H.	65	65		65	65		36
37	Starting Tractive Force, 25% Adhesion	Lb.	59,500	56,750		58,500	57,650		37
38	Max. Continuous Tractive Force	Lb.	32,500	32,500		40,000	40,000		38
39	Speed at Max. Cont. Tractive Force	M.P.H.	14.25	14.25		11	11		39
40	Fuel Tank Capacity—Total	Gals.	1200	1200		1200	1200		40
41	Water " " —Heating, Total	Gals.	——	——		——	——		41
42	" " " —Eng. Cooling, Total	Gals.	230	215		230	215		42
43	Lubricating Oil—Engine, Total	Gals.	200	200		200	200		43
44	Steam Heat Generator—No. Per Unit		——	——		——	——		44
45	" " " —Type		——	——		——	——		45
46	" " " —Each, Lbs. Steam/Hr.		——	——		——	——		46
47									47
48									48
49									49
50									50
51									51
52	Remarks			Note 1		Note 2	Note 2		52

Note 1.—"B" Units 9530, 9532, 9534, 9536 purchased from "Bangor & Aroostook R. R."

Note 2.—Loco. Nos. 9872-9879 have 1500 gal. Fuel Tanks.

July 1, 1960.

	CLASSIFICATION		EFP-15	EFP-15					
1	UNIT		A	B					1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B					2
3	Number of Engines, Per Unit		One	One					3
4	Make of Engine		E.M.D.	E.M.D.					4
5	Model of Engine		16-567-B	16-567-B					5
6	Number of Cylinders, Each Engine		16	16					6
7	Rated Horsepower, Each Engine		1500	1500					7
8	Maximum Governed Speed	R.P.M.	800	800					8
9	Wheel Diameter	In.	40	40					9
10	Driving Axles, Number		4	4					10
11	Idler Axles, Number		——	——					11
12	Journal, Driving Axle	In.	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12					12
13	" Idler Axle	In.	——	——					13
14	" Bearings		Roller	Roller					14
15	Length of Truck Centers	Ft. In.	34-0	30-0					15
16	Wheel Base—Truck	Ft. In.	9-0	9-0					16
17	" " —Unit	Ft. In.	43-0	39-0					17
18	Coupled Length of Unit	Ft. In.	54-8	50-0					18
19	Main Generator		One	One					19
20	" " —Make		E.M.D.	E.M.D.					20
21	" " —Type		D12	D12					21
22	Traction Motors		4	4					22
23	" " —Make		E.M.D.	E.M.D.					23
24	" " —Type		D27B	D27B					24
25	" " —Gear Ratio		17 to 60	17 to 60					25
26	Electric Control—Voltage		64	64					26
27	Air Brake Schedule		24-RL	24-RL					27
28	Compressors		One	One					28
29	" —Make		G.D.	G.D.					29
30	" —Type		WXO	WXO					30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	225	225					31
32	Brakes—Dynamic		Yes	Yes					32
33	Wt. on Rail—All Drivers	Lb.	260,000	247,000					33
34	" " " —All Idlers	Lb.	——	——					34
35	" " " —Total Unit	Lb.	260,000	247,000					35
36	Maximum Loco. Speed	M.P.H.	77	77					36
37	Starting Tractive Force, 25% Adhesion	Lb.	65,000	61,750					37
38	Max. Continuous Tractive Force	Lb.	34,000	34,000					38
39	Speed at Max. Cont. Tractive Force	M.P.H.	13.2	13.2					39
40	Fuel Tank Capacity—Total	Gals.	1200	1200					40
41	Water " " —Heating, Total	Gals.	1180	1400					41
42	" " " —Eng. Cooling, Total	Gals.	230	215					42
43	Lubricating Oil—Engine, Total	Gals.	200	200					43
44	Steam Heat Generator—No. Per Unit		One	One					44
45	" " " —Type		Vapor OK-4625	Vapor OK-4625					45
46	" " " —Each, Lbs. Steam/Hr.		2500	2500					46
47									47
48									48
49									49
50									50
51									51
52	Remarks								52

	CLASSIFICATION		FF-16	FF-16	FF-20	FF-20			
1	UNIT		A	B	A	B			1
2	Wheel Arrangement Symbol	A.A.R.	B-B	B-B	A1A-A1A	A1A-A1A			2
3	Number of Engines, Per Unit		One	One	One	One			3
4	Make of Engine		F.M. Co.	F.M. Co.	F.M. Co.	F.M. Co.			4
5	Model of Engine		38D8⅛	38D8⅛	38D8⅛	38D8⅛			5
6	Number of Cylinders, Each Engine		8	8	10	10			6
7	Rated Horsepower, Each Engine		1600	1600	2000	2000			7
8	Maximum Governed Speed	R.P.M.	850	850	850	850			8
9	Wheel Diameter	In.	42	42	42	42			9
10	Driving Axles, Number		4	4	4	4			10
11	Idler Axles, Number		——	——	Two	Two			11
12	Journal, Driving Axle	In.	6½ x 12	6½ x 12	6½ x 12	6½ x 12			12
13	" Idler Axle	In.	——	——	6½ x 12	6½ x 12			13
14	" Bearings		Roller	Roller	Roller	Roller			14
15	Length of Truck Centers	Ft. In.	34-0	34-0	36-5	36-5			15
16	Wheel Base—Truck	Ft. In.	9-4	9-4	15-6	15-6			16
17	" " —Unit	Ft. In.	43-4	43-4	51-11	51-11			17
18	Coupled Length of Unit	Ft. In.	56-6	56-6	64-10	64-10			18
19	Main Generator		One	One	One	One			19
20	" " —Make		W.E.Corp.	W.E.Corp.	G.E.Co.	G.E.Co.			20
21	" " —Type		497-B	497-B	GT-567	GT-567			21
22	Traction Motors		4	4	4	4			22
23	" " —Make		W.E.Corp.	W.E.Corp.	G.E.Co.	G.E.Co.			23
24	" " —Type		370-G	370-G	746	746			24
25	" " —Gear Ratio		15 to 63	15 to 63	17 to 70	17 to 70			25
26	Electric Control—Voltage		64	64	64	64			26
27	Air Brake Schedule		24-RL	24-RL	24-RL	24-RL			27
28	Compressors		One	One	One	One			28
29	" —Make		W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.			29
30	" —Type		3-CD	3-CD	3-CDB	3-CDB			30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	262	262	262	262			31
32	Brakes—Dynamic		Yes	Yes	Yes	Yes			32
33	Wt. on Rail—All Drivers	Lb.	258,000	254,000	245,720	245,140			33
34	" " " —All Idlers	Lb.	——	——	109,440	108,960			34
35	" " " —Total Unit	Lb.	258,000	254,000	355,160	354,100			35
36	Maximum Loco. Speed	M.P.H.	66. 4	66. 4	69	69			36
37	Starting Tractive Force, 25% Adhesion	Lb.	64,500	63,500	61,430	61,285			37
38	Max. Continuous Tractive Force	Lb.	42,800	42,800	41,000	41,000			38
39	Speed at Max. Cont. Tractive Force	M.P.H.	11.7	11.7	15.5	15.5			39
40	Fuel Tank Capacity—Total	Gals.	1200	1200	1650	1650			40
41	Water " " —Heating, Total	Gals.	——	——	——	——			41
42	" " " —Eng. Cooling, Total	Gals.	330	330	490	490			42
43	Lubricating Oil—Engine, Total	Gals.	330	330	380	380			43
44	Steam Heat Generator—No. Per Unit		——	——	——	——			44
45	" " " —Type		——	——	——	——			45
46	" " " —Each, Lbs. Steam/Hr.		——	——	——	——			46
47									47
48									48
49									49
50									50
51									51
52	Remarks				Note 1				52

Note 1.—Loco. Nos. 9480-9491 not equipped with dynamic brake.

July 1, 1960 .

	CLASSIFICATION		BP-20	BP-20	EP-20	EP-20	EP-22		
1	UNIT		A	B	A	B	A		1
2	Wheel Arrangement Symbol	A.A.R.	A1A-A1A	A1A-A1A	A1A-A1A	A1A-A1A	A1A-A1A		2
3	Number of Engines, Per Unit		Two	Two	Two	Two	Two		3
4	Make of Engine		B-L-H Corp	B-L-H Corp	E.M.D.	E.M.D.	E.M.D.		4
5	Model of Engine		606-SC	606-SC	12-567A	12-567A	12-567B		5
6	Number of Cylinders, Each Engine		6	6	12	12	12		6
7	Rated Horsepower, Each Engine		1000	1000	1000	1000	1125		7
8	Maximum Governed Speed	R.P.M.	625	625	800	800	800		8
9	Wheel Diameter	In.	42	42	36	36	36		9
10	Driving Axles, Number		4	4	4	4	4		10
11	Idler Axles, Number		Two	Two	Two	Two	Two		11
12	Journal, Driving Axle	In.	7 x 13	7 x 13	6½ x 12	6½ x 12	6½ x 12		12
13	" Idler Axle	In.	7 x 13	7 x 13	6½ x 12	6½ x 12	6½ x 12		13
14	" Bearings		Roller	Roller	Roller	Roller	Roller		14
15	Length of Truck Centers	Ft. In.	46-3½	46-3½	43-0	43-0	43-0		15
16	Wheel Base—Truck	Ft. In.	15-6	15-6	14-1	14-1	14-1		16
17	" " —Unit	Ft. In.	61-9½	61-9½	57-1	57-1	57-1		17
18	Coupled Length of Unit	Ft. In.	80-0	78-2½	71-1¼	70-0	70-3		18
19	Main Generator		Two	Two	Two	Two	Two		19
20	" " —Make		W.E.Corp.	W.E.Corp.	E.M.D.	E.M.D.	E.M.D.		20
21	" " —Type		471-A	471-A	D4D	D4D	D15B		21
22	Traction Motors		4	4	4	4	4		22
23	" " —Make		W.E.Corp.	W.E.Corp.	E.M.D.	E.M.D.	E.M.D.		23
24	" " —Type		370-DP	370-DP	D17B	D17B	D27B		24
25	" " —Gear Ratio		22 to 57	22 to 57	22 to 55	22 to 55	22 to 55		25
26	Electric Control—Voltage		64	64	64	64	64		26
27	Air Brake Schedule		24-RL	24-RL	24-RL	24-RL	24-RL		27
28	Compressors		Two	Two	Two	Two	Two		28
29	" —Make		W.A.B.Co.	W.A.B.Co.	G.D.	G.D.	G.D.		29
30	" —Type		3-CD	3-CD	ADX	ADX	ABO		30
31	" —Cap. at Full Eng. Speed	Cu. Ft.	193 Each	193 Each	89 Each	89 Each	112 Each		31
32	Brakes—Dynamic		No	No	No	No	No		32
33	Wt. on Rail—All Drivers	Lb.	257,200	250,000	215,400	206,300	226,000		33
34	" " " —All Idlers	Lb.	129,900	124,500	104,200	99,800	109,000		34
35	" " " —Total Unit	Lb.	387,100	374,500	319,600	306,100	335,000		35
36	Maximum Loco. Speed	M.P.H.	100	100	98	98	98		36
37	Starting Tractive Force, 25% Adhesion	Lb.	64,300	62,500	53,850	51,575	56,500		37
38	Max. Continuous Tractive Force	Lb.	26,400	26,400	18,750	18,750	23,500		38
39	Speed at Max. Cont. Tractive Force	M.P.H.	23.8	23.8	34	34	30		39
40	Fuel Tank Capacity—Total	Gals.	1200	1200	1200	1200	1200		40
41	Water " " —Heating, Total	Gals.	1810	2310	1600	2100	1950		41
42	" " " —Eng. Cooling, Total	Gals.	575	575	300	300	400		42
43	Lubricating Oil—Engine, Total	Gals.	330	330	330	330	330		43
44	Steam Heat Generator—No. Per Unit		One	One	One	One	Two		44
45	" " " —Type		Vapor DRK-4530	Vapor DRK-4530	Vapor DRK-4530	Vapor DRK-4530	Vapor OK-4625		45
46	" " " —Each, Lbs. Steam/Hr.		3000	3000	3000	3000	2500		46
47									47
48									48
49									49
50									50
51									51
52	Remarks								52

July 1, 1960.

ELECTRIC LOCOMOTIVES

	CLASSIFICATION	B1	DD1	DD2	FF2	
1	Number of Units Per Loco.	One	One	One	One	1
2	Wheel Arrangement Symbol A.A.R.	C	2-B+B-2	2-B+B-2	1-C+C-1	2
3	" Diameter—Drivers In.	62	72	62	55	3
4	" " —Trucks In.	——	36	36	36	4
5	Axles, Drivers	3	4	4	6	5
6	" Trucks	——	4	4	2	6
7	Journal, Drivers In.	$6\frac{1}{2}$ x 12	10 x $13\frac{1}{8}$	$8\frac{1}{2}$ x 13	$8\frac{1}{2}$ x 15	7
8	" Trucks	——	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	8 x 14	8
9	Bearings, Driver	Plain	Plain	Roller	Plain	9
10	" Trucks	——	Plain	Roller	Plain	10
11	Number of Trucks	——	Two	Two	Two	11
12	Truck Centers—End Trucks Ft. In.	——	49-4	53-10	58-8	12
13	Wheel Base—Truck Ft. In.	——	6-7	7-2	——	13
14	" " —Rigid Ft. In.	12-8	7-2	10-9	15-4	14
15	" " —Unit Ft. In.	——	——	——	——	15
16	" " —Loco. Ft. In.	12-8	55-11	61-0	58-8	16
17	Coupled Length—Unit Ft. In.	——	——	——	——	17
18	" " —Loco. Ft. In.	31-6	64-11	72-$6\frac{1}{4}$	73-9	18
19	Max. Height—over Cab Ft. In.	14-$4\frac{13}{16}$	13-$1\frac{1}{16}$	14-$8\frac{1}{4}$	13-0	19
20	" " —Pantograph Down Ft. In.	15-0	14-$8\frac{1}{16}$	15-0	15-11	20
21	* " Width Ft. In.	10-1	11-$2\frac{1}{4}$	10-$7\frac{11}{16}$	10-$5\frac{3}{8}$	21
22	Drive, Type of	Gears	Rods & Jack Shaft	Geared Quill	Gears	22
23	Current Collectors	Pantograph	3rd Rail Shoes	Pantograph	Pantograph	23
24	Line Voltage	11,000 25-Cycle	650-D.C.	11,000 25-Cycle	11,000 25-Cycle	24
25	Traction Motors—Class	A.C.	D.C.	A.C.	ΔD.C	25
26	" " —Voltage	235	650	340	750	26
27	" " —Make	W.E. or A.C.	W.E.Corp.	W.E.Corp.	G. E. Co.	27
28	" " —Type	137-B 100	315-A	428-A	290-A	28
29	" " —Number	3	Two	8	6	29
30	" " —Gear Ratio	22 to 79	——	21 to 83	21 to 82	30
31	Control, Master Type	Electro-Pneumatic	Electro-Pneumatic	Electro-Pneumatic	Electro-Pneumatic	31
32	Electric Control Voltage	32 V	20 V	32 V	56V	32
33	Traction Motor Blowers—Number & H.P. Each	One-10	——	2-90	1-50	33
34	" " " —Capacity, Each		——		——	34
35	Transformer Blower—No. & H.P. Each			1-50	2-$6\frac{1}{4}$	35
36	" " —Capacity, Each				——	36
37	Air Brake Schedule	No.6 & No.8	No. 6	No. 8	14-EL	37
38	Compressors—Number	One	Two	Two	Two	38
39	" —Make	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	G. E. Co.	39
40	" —Type	CA-150-A	C-60	CA-150-B	CPA-26	40
41	" —Capacity Cu. Ft.	150	60	150	200	41
42	Weight on Rail—All Drivers, Lbs.	157,000	203,400	286,000	411,600	42
43	" " " —All Trucks, Lbs.	——	125,000	164,000	116,000	43
44	" " " —Loco., Total Lbs.	157,000	328,400	450,000	527,600	44
45	Max. Loco. Speed M.P.H.	25	80	70	55	45
46	Starting Tractive Force, 25% Adhesion Lbs.	39,250	50,850	71,500	102,900	46
47	Rating Continuous Horse Power	570	1580	5000	3,000	47
48	" " Tractive Force Lbs.	13,500	10,200	38,300	60,000	48
49	" " Speed M.P.H.	15.9	58	49	18	49
50	Brakes—Dynamic	No	No	No	No	50
51			See Note	See Note	See Note	51
52	Remarks			No. 5800		52

*—Including Window Guards.

Δ—Uses Motor-generator Set.

Note—"DD1"—Two Cabs and Frames Connected by Draw Bars.

Note—"DD2"—One Cab and Two Frames.

Note—"FF2"—One Cab and Two Frames.

July 1, 1960.

	CLASSIFICATION		GG1	GG1 Prior 1-1-37	GG1 After 1-1-37	GG1 After12-1-38	GG1 After 6-1-39		
1	Number of Units Per Loco.		One	One	One	One	One		1
2	Wheel Arrangement Symbol	A.A.R.	2-C+C-2	2-C+C-2	2-C+C-2	2-C+C-2	2-C+C-2		2
3	" Diameter—Drivers	In.	57	57	57	57	57		3
4	" " —Trucks	In.	36	36	36	36	36		4
5	Axles, Drivers		6	6	6	6	6		5
6	" Trucks		4	4	4	4	4		6
7	Journal, Drivers	In.	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		7
8	" Trucks		$6\frac{1}{2}$ x 12	6 x 11	6 x 11	6 x 11	6 x 11		8
9	Bearings, Driver		Roller	Roller	Roller	Roller	Roller		9
10	" Trucks		Roller	Roller	Roller	Roller	Roller		10
11	Number of Trucks		Two	Two	Two	Two	Two		11
12	Truck Centers—End Trucks	Ft. In.	61-0	61-0	61-0	61-0	61-0		12
13	Wheel Base—Truck	Ft. In.	8-0	8-0	8-0	8-0	8-0		13
14	" " —Rigid	Ft. In.	13-8	13-8	13-8	13-8	13-8		14
15	" " —Unit	Ft. In.	——	——	——	——	——		15
16	" " —Loco.	Ft. In.	69-0	69-0	69-0	69-0	69-0		16
17	Coupled Length—Unit	Ft. In.	——	——	——	——	——		17
18	" " —Loco.	Ft. In.	79-6	79-6	79-6	79-6	79-6		18
19	Max. Height—over Cab	Ft. In.	14-$3\frac{19}{32}$	14-$3\frac{11}{32}$	14-$3\frac{11}{32}$	14-$3\frac{11}{32}$	14-$3\frac{11}{32}$		19
20	" " —Pantograph Down	Ft. In.	15-0	15-0	15-0	15-0	15-0		20
21	* " Width	Ft. In.	10-6	10-$4\frac{3}{16}$	10-$4\frac{3}{16}$	10-$4\frac{3}{16}$	10-$4\frac{3}{16}$		21
22	Drive, Type of		Geared Quill	Geared Quill	Geared Quill	Geared Quill	Geared Quill		22
23	Current Collectors		Pantograph	Pantograph	Pantograph	Pantograph	Pantograph		23
24	Line Voltage		11,000 25-Cycle	11,000 25-Cycle	11,000 25-Cycle	11,000 25-Cycle	11,000 25-Cycle		24
25	Traction Motors—Class		A.C.	A.C.	A.C.	A.C.	A.C.		25
26	" " —Voltage		340	340	340	340	340		26
27	" " —Make		G.E.	G.E. or W.E	G.E. or W.E	G.E. or W.E	G.E. or W.E		27
28	" " —Type		627	627 427	627 427	627 427	627 427		28
29	" " —Number		12	12	12	12	12		29
30	" " —Gear Ratio		22 to 79	22 to 79	24 to 77	24 to 77	24 to 77		30
31	Control, Master Type		Electro-Pneumatic	Electro-Pneumatic	Electro-Pneumatic	Electro-Pneumatic	Electro-Pneumatic		31
32	Electric Control Voltage		32 V	32 V	32 V	32 V	32 V		32
33	Traction Motor Blowers—Number & H.P. Each		Two-52	Two-55	Two-55	Two-55	Two-55		33
34	" " " —Capacity, Each		26,000	25,000	25,000	25,000	25,000		34
35	Transformer Blower—No. & H.P. Each		Note	Note	Note	Note	Note		35
36	" " —Capacity								36
37	Air Brake Schedule		No. 8	No. 8	No. 8	No. 8	No. 8		37
38	Compressors—Number		One	One	One	One	One		38
39	" —Make		W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.		39
40	" —Type		CA-150-A	CA-150-A	CA-150-A	CA-150-A	CA-150-A		40
41	" —Capacity	Cu. Ft.	150	150	150	150	150		41
42	Weight on Rail—All Drivers,	Lbs.	303,000	300,000	303,000	300,000	303,000		42
43	" " " —All Trucks,	Lbs.	172,000	160,000	174,000	168,400	174,000		43
44	" " " —Loco., Total	Lbs.	475,000	460,000	477,000	468,000	477,000		44
45	Max. Loco. Speed	M.P.H.	90	90	100	100	100		45
46	Starting Tractive Force,	Lbs.	Δ75,750	Δ75,000	70,700	70,700	70,700		46
47	Rating Continuous Horse Power		4620	4620	4620	4620	4620		47
48	" " Tractive Force	Lbs.	19,250	19,250	17,300	17,300	17,300		48
49	" " Speed	M.P.H.	90	90	100	100	100		49
50	Brakes—Dynamic		No	No	No	No	No		50
51			Freight						51
52	Remarks		No. 4800						52

*Including Window Guards Δ—25% Adhesion

Note:—Transformer Air from Traction Motor Blowers. July 1, 1960.

	CLASSIFICATION		L6	L6	L6a		O1a	O1c	
1	Number of Units Per Loco.		One	One	One		One	One	1
2	Wheel Arrangement Symbol	A.A.R.	1-D-1	1-D-1	1-D-1		2-B-2	2-B-2	2
3	" Diameter—Drivers	In.	62	62	62		72	72	3
4	" " —Trucks	In.	36	36	36		36	36	4
5	Axles, Drivers		4	4	4		Two	Two	5
6	" Trucks		Two	Two	Two		4	4	6
7	Journal, Drivers	In.	$8\frac{1}{2}$ x 13	$8\frac{1}{2}$ x 13	$8\frac{1}{2}$ x 13		$8\frac{1}{2}$ x 13	$8\frac{1}{2}$ x 13	7
8	" Trucks	In.	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12	$6\frac{1}{2}$ x 12		6 x 11	6 x 11	8
9	Bearings, Driver		Roller	Roller	Roller		Roller	Roller	9
10	" Trucks		Roller	Roller	Roller		Roller	Roller	10
11	Number of Trucks		Two	Two	Two		Two	Two	11
12	Truck Centers—End Trucks	Ft. In.	36-0	36-0	36-0		33-0	33-0	12
13	Wheel Base—Truck	Ft. In.	——	——	——		6-10	6-10	13
14	" " —Rigid	Ft. In.	20-0	20-0	20-0		10-0	10-0	14
15	" " —Unit	Ft. In.	——	——	——		——	——	15
16	" " —Loco.	Ft. In.	36-0	36-0	36-0		39-10	39-10	16
17	Coupled Length—Unit	Ft. In.	——	——	——		——	——	17
18	" " —Loco.	Ft. In.	51-10	51-10	51-10		52-8	52-8	18
19	Max. Height—over Cab	Ft. In.	12-8	12-8	12-8		12-8	12-8	19
20	" " —Pantograph Down	Ft. In.	15-0	15-0	15-0		15-0	15-0	20
21	* " Width	Ft. In.	10-$8\frac{5}{8}$	10-$8\frac{5}{8}$	10-$8\frac{5}{8}$		10-$8\frac{5}{8}$	10-$8\frac{5}{8}$	21
22	Drive, Type of		Gears	Gears	Gears		Geared Quill	Geared Quill	22
23	Current Collectors		Pantograph	Pantograph	Pantograph		Pantograph	Pantograph	23
24	Line Voltage		11,000 25-Cycle	11,000 25-Cycle	11,000 25-Cycle		11,000 25-Cycle	11,000 25-Cycle	24
25	Traction Motors—Class		A.C.	A.C.	A.C.		A.C.	A.C.	25
26	" " —Voltage		275	275	275		225	275	26
27	" " —Make		W.E.Co.	G.E.Co.	W.E.Co.		G.E.Co.	G.E.Co.	27
28	" " —Type		425-B	G.E.A. 625-B	425-B		619-A	625-A	28
29	" " —Number		4	4	4		4	4	29
30	" " —Gear Ratio		20 to 86	23 to 98	20 to 86		36 to 103	31 to 91	30
31	Control, Master Type		Electro-Pneumatic	Electro Pneumatic	Electro Pneumatic		Electro Pneumatic	Electro Pneumatic	31
32	Electric Control Voltage		32 V	32 V	32 V		32 V	32 V	32
33	Traction Motor Blowers—Number & H.P. Each		2-$18\frac{1}{2}$	2-$18\frac{1}{2}$	2-35		2-15	2-$18\frac{1}{2}$	33
34	" " " —Capacity, Each		10750	10750	13000		10000	10750	34
35	Transformer Blower—No. & H.P. Each		1-$18\frac{1}{2}$	1-$18\frac{1}{2}$	1-$18\frac{1}{2}$		1-15	1-$18\frac{1}{2}$	35
36	" " —Capacity, Each		8000	8000	8000		10,000	8000	36
37	Air Brake Schedule		No. 8	No. 8	No. 8		No. 8	No. 8	37
38	Compressors—Number		One	One	One		One	One	38
39	" —Make		W.A.B.Co.	W.A.B.Co.	W.A.B.Co.		W.A.B.Co.	W.A.B.Co.	39
40	" —Type		CA-150-A	CA-150-A	CA-150-A		CA-150-A	CA-150-A	40
41	" —Capacity	Cu. Ft.	150	150	150		150	150	41
42	Weight on Rail—All Drivers, Unit	Lbs.	220,000	220,000	221,000		156,100	150,000	42
43	" " " —All Trucks, Loco	Lbs.	80,000	80,000	84,110		153,300	150,000	43
44	" " " —Loco., Total	Lbs.	300,000	300,000	305,110		309,400	300,000	44
45	Max. Loco. Speed	M.P.H.	54	54	54		90	90	45
46	Starting Tractive Force,	Lbs.	Δ55,000	Δ55,000	Δ55,250		33,500	33,500	46
47	Rating Continuous Horse Power		2500	2500	2500		2500	2500	47
48	" " Tractive Force	Lbs.	25,000	25,000	25,000		14,900	14,900	48
49	" " Speed	M.P.H.	37.5	37.5	37.5		63	63	49
50	Brakes—Dynamic		No	No	No		No	No	50
51									51
52	Remarks		No. 5938	No. 5939	No. 5940		No. 7853	No. 7857	52

*Including Window Guards.

Δ—25% Adhesion.

July 1, 1960.

	CLASSIFICATION		P5	P5a Bef'r 5-1-34	P5a After 5-1-34	P5b		E-44	
1	Number of Units Per Loco.		One	One	One	One		One	1
2	Wheel Arrangement Symbol	A.A.R.	2-C-2	2-C-2	2-C-2	2-C-2		C-C	2
3	" Diameter—Drivers	In.	72	72	72	72		40	3
4	" " —Trucks	In.	36	36	36	36		———	4
5	Axles, Drivers		3	3	3	3		6	5
6	" Trucks		4	4	4	4 (Drivers)		———	6
7	Journal, Drivers	In.	$8\frac{1}{2}$ x 13	$8\frac{1}{2}$ x 13	$8\frac{1}{2}$ x 13	$8\frac{1}{2}$ x 13		$6\frac{1}{2}$ x 12	7
8	" Trucks		6 x 11	6 x 11	6 x 11	6 x 11		———	8
9	Bearings, Driver		Roller	Roller	Roller	Roller		Roller	9
10	" Trucks		Roller	Roller	Roller	Roller		———	10
11	Number of Trucks		Two	Two	Two	Two		Two	11
12	Truck Centers—End Trucks	Ft. In.	43-0	43-0	43-0	43-0		45-0	12
13	Wheel Base—Truck	Ft. In.	6-10	6-10	6-10	7-10		13-0	13
14	" " —Rigid	Ft. In.	20-0	20-0	20-0	20-0		13-0	14
15	" " —Unit	Ft. In.	——	——	——	——		$59\text{-}9\frac{3}{4}$	15
16	" " —Loco.	Ft. In.	49-10	49-10	49-10	50-10		———	16
17	Coupled Length—Unit	Ft. In.	——	——	——	——		69-6	17
18	" " —Loco	Ft. In.	62-8	62-8	62-8	62-8		———	18
19	Max. Height—over Cab	Ft. In.	12-8	12-8	$14\text{-}6\frac{3}{32}$	12-8		14-10	19
20	" " —Pantograph Down	Ft. In.	15-0	15-0	15-0	15-0		15-0	20
21	* " Width	Ft. In.	$10\text{-}8\frac{5}{8}$	$10\text{-}8\frac{5}{8}$	$10\text{-}8\frac{1}{4}$	$10\text{-}8\frac{5}{8}$		$10\text{-}3\frac{1}{8}$	21
22	Drive, Type of		Geared Quill	Geared Quill	Geared Quill	Geared Quill		Gears	22
23	Current Collectors		Pantograph	Pantograph	Pantograph	Pantograph		Pantograph	23
24	Line Voltage		11,000 25-Cycle	11,000 25-Cycle	11,000 25-Cycle	11,000 25-Cycle		11,000 25-Cycle	24
25	Traction Motors—Class		A.C.	A.C.	A.C.	A.C.		ΔD.C.	25
26	" " —Voltage		275	275	275	275			26
27	" " —Make		W.E. Co. G.E. Co.	W.E. Co. G.E. Co.	W.E. Co. G.E. Co.	W.E. Co. G.E. Co.		G. E. Co.	27
28	" " —Type		425-A 625-A	425-A 625-A	425-A 625-A	425-A 625-A		752-E5	28
29	" " —Number		6	6	6	10		6	29
30	" " —Gear Ratio		25 to 97	25 to 97	25 to 97	25 to 97		20 to 63	30
31	Control, Master Type		Electro-Pneumatic	Electro-Pneumatic	Electro-Pneumatic	Electro-Pneumatic		Electro-Pneumatic	31
32	Electric Control Voltage		32 V	32 V	32 V	32 V		64V	32
33	Traction Motor Blowers—Number & H.P. Each		$3\text{-}18\frac{1}{2}$	3-35	2-35 $1\text{-}18\frac{1}{2}$	3-35		One 130 H.P. Motor Blower Cap. 34600 c.f.m.	33
34	" " " —Capacity, Each		10750	13000	19500	12000			34
35	Transformer Blower—No. & H.P. Each		$1\text{-}18\frac{1}{2}$	$1\text{-}18\frac{1}{2}$	$1\text{-}18\frac{1}{2}$	1-35 $2\text{-}52\frac{1}{2}$			35
36	" " —Capacity, Each		8000	8000	8000	**1-13000 1-16000, 1-7000			36
37	Air Brake Schedule		No. 8	No. 8	No. 8	No. 8		26-L	37
38	Compressors—Number		One	One	One	One		One	38
39	" —Make		W.A.B.Co.	W.A.B.Co.	W.A.B.Co.	W.A.B.Co.		W.A.B.Co.	39
40	" —Type		CA-150-A	CA-150-A	CA-150-A	CA-150-A		3CMDB	40
41	" —Capacity	Cu. Ft.	150	150	150	150		224	41
42	Weight on Rail—All Drivers, Unit	Lbs.	220,000	220,000	229,000	233,400			42
43	" " " —All Trucks, Loco.	Lbs.	172,000	172,000	165,000	211,300 Drivers			43
44	" " " —Loco., Total	Lbs.	392,000	392,000	394,000	444,700			44
45	Max. Loco. Speed	M.P.H.	70	70	70	70		70	45
46	Starting Tractive Force, 25% Adhesion	Lbs.	55,000	55,000	57,250	80,000			46
47	Rating Continuous Horse Power		3750	3750	3750	5350		4400	47
48	" " Tractive Force	Lbs.	28,700	28,700	28,700	41,000		55,500	48
49	" " Speed	M.P.H.	49	49	49	49		33—55	49
50	Brakes—Dynamic		No	No	No	No		Yes	50
51						No. 4702			51
52	Remarks		No. 4700	Box Type	Streamlined	See Note			52

*—Including Window Guards.
**—Cools Transformer, Truck Motors and Associated Equipment.

Note: —Engine Truck Motor, Class & Voltage—A.C. 340.
Engine Truck Motor, Gear Ratio—17 to 50.

Δ Uses Rectifiers.

July 1, 1960.

	CLASSIFICATION		E2B		E2C		E3B		
1	Number of Units Per Loco.		Two		Two		Two		1
2	Wheel Arrangement Symbol	A.A.R.	2 (B-B)		2 (C-C)		2 (B-B-B)		2
3	" Diameter—Drivers	In.	48		44		44		3
4	" " —Trucks	In.	——		——		——		4
5	Axles, Drivers—No. per unit		4		6		6		5
6	" Trucks — " " "		——		——		——		6
7	Journal, Drivers	In.	7 x 12		$6\frac{1}{2}$ x 12		$6\frac{1}{2}$ x 12		7
8	" Truck	In.	——		——		——		8
9	Bearings, Driver		Roller		Roller		Roller		9
10	" Truck		——		——		——		10
11	Number of Driving Trucks, per unit		Two		Two		3		11
12	Truck Centers—End Trucks, Unit	Ft. In.	28-10		33-8		33-8		12
13	Wheel Base—Truck (Each)	Ft. In.	11-0		16-5		9-6		13
14	" " —Rigid	Ft. In.	11-0		16-5		9-6		14
15	" " —Unit	Ft. In.	39-10		43-2		43-2		15
16	" " —Loco.	Ft. In.	94-1		104-5		104-5		16
17	Coupled Length—Unit	Ft. In.	54-3		62-0		62-0		17
18	" " —Loco	Ft. In.	108-6		124-0		124-0		18
19	Max. Height—over Cab	Ft. In.	14-0		$14\text{-}7\frac{3}{8}$		$14\text{-}7\frac{3}{8}$		19
20	" " —Pantograph Down	Ft. In.	15-0		15-0		15-0		20
21	* " Width	Ft. In.	10-7		$10\text{-}5\frac{1}{2}$		$10\text{-}5\frac{1}{2}$		21
22	Drive, Type of		Gears		Gears		Gears		22
23	Current Collectors		Pantograph		Pantograph		Pantograph		23
24	Line Voltage		11,000 25-Cycle		11,000 25-Cycle		11,000 25-Cycle		24
25	Traction Motors—Class		A.C.		ΔD.C.		ΔD.C.		25
26	" " —Voltage		750		600		600		26
27	" " —Make		G.E.Co.		W.E.Co.		W.E.Co.		27
28	" " —Type		G.E.A. 632-B		370-DZ		370-DZ		28
29	" " —Number (Per Unit)		4		6		6		29
30	" " —Gear Ratio		21 to 83		15 to 68		15 to 68		30
31	Control, Master Type		Electro-Pneumatic		Electro-Pneumatic		Electro-Pneumatic		31
32	Electric Control Voltage		32 V		32 V		32 V		32
33	Traction Motor Blowers—Number & H.P. Each		4-27		3-53		3-53		33
34	" " " —Capacity, Each		7550		18000		18000		34
35	Transformer Blower—No. & H.P. Each		$2\text{-}6\frac{1}{4}$		1-29		1-29		35
36	" " —Capacity, Each		4000		13000		13000		36
37	Air Brake Schedule		‡24-RL Mod		8-EL Mod.		8-EL Mod.		37
38	Compressors—Number		One		One		One		38
39	" —Make		W.A.B.Co.		W.A.B.Co.		W.A.B.Co.		39
40	" —Type		3-CD		3-CD		3-CD		40
41	" —Capacity	Cu. Ft.	223		223		223		41
42	Weight on Rail—All Drivers, Unit	Lbs.	245500		361980		378000		42
43	" " " —All Trucks, Loco.	Lbs.	——		——		——		43
44	" " " —Loco., Total	Lbs.	491000		723960		756000		44
45	Max. Loco. Speed	M.P.H.	65		63		63		45
46	Starting Tractive Force, 25% Adhes. Loco.	Lbs.	122750		180990		189000		46
47	Rating Continuous Horse Power—Loco.		5000		6000		6000		47
48	" " Tractive Force—Loco.	Lbs.	70800		132000		132000		48
49	" " Speed	M.P.H.	26.5		17		17		49
50	Brakes—Dynamic		Yes		Yes		Yes		50
51			Note-1		Note-2		Note-2		51
52	Remarks								52

*—Including Window Guards.
Δ—Uses Rectifiers
‡—Loco. Nos. 4943, 4944 have 8-EL.

Note 1—"E2B"—2 Blowers Dynamic Brake Grids 65 H.P.—12000 Cu. Ft.

Note 2—"E2C, E3B"—1 Blower 35 H.P.—40000 Cu. Ft. Brake Resistor-Radiator.

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