HDQT. FILE

RAILROAD

INFORMATION TO BE FILLED IN AND FURNISHED BY RAILROAD FOR PREPARATION OF DIESEL APPLICATION REPORT

PRODUCT APPLICATION STUDY FOR

for each year.

Opera	tin	g Department
	1.	Scope of study (a) Complete
		(b) Selected Operation
	2.	Dates covering a consecutive ten day peak period
	3.	Furnish copies of dispatchers train sheets for selected ten days. Are
		tonnages shown actual or adjusted?
	4.	Furnish two sets of Employees: Time Tables including speed restrictions
		and freight tonnage ratings.
	5.	Furnish copy of engine and train crews current wage rates.
	6.	Furnish description of peak local freight and mixed train assignments.
	7.	Furnish description of peak yard switching assignments (use Table 1).
Mecha	mic	al Department
	1.	Furnish locomotive specification booklet including light weight of Steam
		locomotives and tenders, tractive effort and year built.
	2.	Furnish copy of locomotive speed draw-bar pull curves, if available.
	3.	Furnish Steam and Diesel locomotive annual repair expense by classes

4. Furnish maximum number and description of locomotives used in freight, passenger and switching services during test year segregated between Steam and Diesel types (use Table 5).

for each of the past five years with corresponding locomotive mileage

MECHANICAL DEPARTMENT ITEM NUMBER 4

Steam Locomotives:

No.	Depreciation	Base	Depreciation Rate
310	11,508.06		3.33%
311	12,198.93		3.33%
.312	8,001.85		3.33%
313	9,215.55		3.33%
315	12,991.63		3.33%
31.6	12,289.14		3.33%
317	11,710.31		3.33%
318	11,615.35	Leased to Army	
319	14,433.38		3.33%
320	12,067.62		3.33%
Lol	78,969.05		3.33%
402	79,051.03		3.33%
403	12,624.33		3.33%
404	13,351.31		3.33%
405	13,409.25		3.33%
406	5,714.88		3.33%
551	67,181.60		3.33%
552	67,245.16		3.33%
554	67,239.48		3.33%
555	68,030.40		3.33%
556	68,062.89		3.33%
557	63,796.57		3.33%
558	11,566.94		3.33%
559	10,835.18		3.33%
560	17,070.31		3.33%
561	20,119.32		3.33%
			3.33%
562	14,785.89		3.33%
701	76,644.39 76,712.13		3.33%
702			3.33%
703	77,405.70		3.33%
801	74,634.98		3.33%
802	129,059.37		3.33%
901	95,533.04		3.33%
902	126,292.70		3.000
Diesel Locomotives:			
	200 502 00		2 224
1000	109,583.98		3.33%
1001	109,959.76		3.33%
1010	28,866.48		3.33%
1013	28,180.15		3.33%
1014	34,320.97	D	3.33%
1015	19,805.64	Burned at Heal	
1016	51,821.26	" " "	3.33%
1017	23,080.74		3.33%
1018	52,849.34		3.33%

LOCOMUTIVE CLASSIFICATIONS AND NUMBERS

FEBRUARY 1, 1952

	Value		S M-4-A	
ARR No-	The state of the s	U.S.A. No.	Builder's No.	Strouded By
*1050 *1052 *1054 *1070 *1072 *1074 *1076 *1076	1050A *1052 *1054 *1070 *1072 *1074 *1076 *1076	8040 8055 8056 8047 8036 8052 8046 8053	70661Alco-GE 70676Alco-GE 70677Alco-GE 70668Alco-GE 70673Alco-GE 70667Alco-GE 70667Alco-GE 70674Alco-GE	I.R.C.R.M. Go. P.S.R.MD. Co. P.S.R.MD. Co. P.S.R.MD. Co. P.S.R.MD. Co. P.S.R.MD. Co. P.S.R.MD. Co. P.S.R.MD. Co.
		CLA	SS 11-6-8	
*1051 *1053 **1055 **1057 *1069 *1075 *1077	#1050-B #1089 ##1002 ##1085 f021 1011 1012	805b 8021 8038 8003 8002 8053 8053	70675Alec-GE 70692Alec-GE 70659Alec-GE 69993Alec-GE 70672Alec-GE 70664Alec-GE	I.R.C.E.M. Co. Alaska Railroad Alaska Railroad Alaska Railroad Alaska Railroad Alaska Railroad Alaska Railroad
		CLAS	IS N.L. RH	
1000 1001 \$1014	1007 1007 1000	None None 8045	70319-Alco-GE 71370-Alco-GE 70666-Alco-GE	
\$3010 \$1043	1010 1013	BGMT BGM	70662 Nico-073 70665 Nico-073	
#1015 #1016 #1017 #1018 #1026 #1027 #1029 1031 &1031 &1031 &1035 &1035 &1035 &1041 &1042 \$1042	1015 1016 1017 1018 1026 1027 1038 1030 1031 1032 1033 1034 1035 1036 1042	8035 8664 8664 8648 8649 8649 8623 8625 8625 8024 8039 8611 8013 8636 8606 8003	70656-1100-010 70347-4100-010 70347-4100-010 70669-1100-010 70663-1100-010 70663-1100-010 70663-1100-010 70663-1100-010 70664-1100-010 70664-1100-010 70664-1100-010 70665-1100-010 70665-1100-010 70665-1100-010 70695-1100-010 70695-1100-010 70695-1100-010 70695-1100-010 70695-1100-010	

Scanned	at	the	National	Archives
Countries	***	****	I . CECE CO KICKE	

ANR MOS	ARR No.	* In Promising		WALLINGS & NO.	Sarouded Fy
		48 40	CLASS M	16-24	
1300	1300	8664		717)5- His. West.	
			CLASS D	0-4-50	
1507 1503 1507	1201 1202 1203	7003 7004 7001 7002		2001 - E. M. 2001 - E. M. 1990 - E. M. 2012 - R. M.	
			CLASS C	D-4;-SW	
1100 1107 -1107 -1105 -1106 -1107	1200 110k 1102 1103 1104 1105 1207	715 / 715 / 703 3 703 1 702 1, 718 / 718 /		7638 -Forter 7639 - Forter 7392 - Porter 7603 - Porter 7625 - Porter 7367 - Porter 7368 - Porter	
NOTEs	Shoulded D	Inita:			

Byan Numbers -- Units Odd Numbers -- I Units

*CONVERSION COMPLETED AND IN SERVICE

+-OUT OF STAVICE FOR CONVERSION

(UNTER FURTHER NOTICE LECOMMENTERS 2032, Lobit Lotiz, AND ACLS ARE STRUCKERURIT CONTROL.)

1085 -- DAMAGED BY FIRE, ANCHWARE SWORE 1-15-51

TO WEEK PRUCKS WITH TIME I PEARINGS AUTHORIZED

C. HEEL THUCKS WITH TIMES I DESPITE AND STREAMLINING AUTHORIZED

MEASTO FROM IL S. ARDY

TENSON TO ME S. ARMY

SSTREAMLINING AUTHORIZED

Information compiled by Iffice of East of notive Power and Equipment of The Aleska Railroad.

O. A. Benedict Supt of Motive

Power and Mquipment

COAL & OIL LOCOMOTIVE MILES PER YEAR

Loco No.	1947	1948	1949	1950	1951
310	9804	12602	15654	3723	794
311	13257	17041	8567	5405	357
312	5665	9238	10250	3156	1867
313	5261	8579	11394	1491	_
314	664	1083	114	-	2
315	7681	9874	10027	7	_
316	15389	19783	4887	952	2
317	11762	15120	7502	55	-74-
318	13196	16963	6913	-	7963
319	11669	15001	9655	8753	4447
320	8834	11356	9407	7700	2947
401	23464	8940	24535	6833	32082
402	24377	4191	38176	21590	23248
403	19161	31248	37556	8656	00000
404	25142	7135	24785	27883	27832
405	22789	7675	40389	22470	24942
406	2 42 01	00022	12771	25292	13930
551	18134	23311	26697	16477	18512
5 52	21502	27641	25062	18896	24773
554	23652	30405	23669	16877	33742
555	13563	17435	20171	19017 27252	25976 14262
5 56	19328	24846	18037 18762	22584	30684
5 57	19206	24689	18942	23096	31058
558	17266	27165	26153	22614	26718
559	21132	25706	17926	21220	33432
560	19997 16218	20848	25017	28357	34202
561 562	15972	20531	20973	19897	31271
701	12039	15475	24134	15706	19101
702	22936	29484	28699	19698	12887
703	25328	32559	25415	9073	11238
801	24684	31731	28417	14044	-
802	14911	19181	25364	10839	
901	19704	25329	22714	6488	1760
902	21078	27095	23253	6883	13430
* 501	~~0.00	21223			
* 502	-	27146		1000	-
* 504		21621	200		-
* 505		25185		Q.C. 345	-
200		0.0000000000000000000000000000000000000			

^{* 500} Class later returned to 400 Class, mileage shown included 400 Class for the Year 1948

1000	Loco No.	1947	1948	1949	1950	1951
1001						
1002						
1010 5847 30250 29007 29658 36198 1011 326 1684 1012 7938 11068 32943 1163 1014 8517 14059 39849 33134 37564 1015 6583 34055 37014 23221 29276 1016 1455 7529 36939 27951 22456 1017 5705 28071 29496 1018 - 18136 33519 27243 1021 21120 21899 1026 - 35081 27535 30486 1027 2602 13461 39780 32277 29404 1028 - 13212 34725 1029 - 13111 38913 1030 - - 11965 33822 1032 - - 11965 33822 1033 - - 22549 1034 - - 24917 1035 - - 24917 1035 - - 24917 1035 - - 25216 1034 - 25216 1034 1041 - - 25216 1034 1041 - -			270			NEW CONTRACTOR
1011 326		5847	30250			
1012				27001		7577
1013			0.00777777	32943	0 4	4
1014	TA CHENNELLE				35777	41683
1015 6583 34055 37014 23221 29276 1016 1455 7529 36939 27951 32856 1017						
1016	5.1.14.18.5.1Zi					
1017						
1018		1477	1,200			
1021						
1026				10170		
1027 2602 13461 39780 32277 29404 1028 - - 13212 34725 1029 - - 11311 38913 1030 - - - 11965 33822 1031 - - - 11965 33822 1032 - - - 26364 1034 - - - 26364 1034 - - - 24917 1035 - - - 12265 1038 - - - 12085 1038 - - - 12065 1038 - - - 1266 1041 - - - 25216 1042 - - - 1265 1042 - - - 12681 1043 - - - 12661 1				35001		
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1204 3117 16124 16535 15052 17894						
The second secon						
			-		27108	38448

REPAIRS CHARGED TO LOCOMOTIVES PER YEAR

			00010001020	2222	4000
Loco No.	1947	1948	1949	1950	1951
23	3,156.54		-	4	-
272	283.44	-	-	-	
301	1,133.34	175.78	-	The state of the s	7
310	4,355.55	6,291.31	12,090.71	7,067.11	6,611.50
311	11,224.96	13,879.70	14,550.33	5,670.37	1,277.96
312	729.48	4,234.76	5,338.57	11,498.19	1,408.32
313	2,229.97	3,207.94	6,813.47	6,308.72	497.74
314	1,403.15	8,064.86	1,142.90	8,861.58	-
	5,659.68	4,995.65	3,894.81	2,423.99	809.51
315		3,020.23	5,807.29	1,990.48	25.00
316	1,895.06	9,608.30	8,836.01	2,087.44	193.53
317	6,392.61		6,975.58	8,387.21	1,755.65
318	5,921.53	4,800.05		3,486.97	4,349.05
319	2,774.05	6,533.36	6,474.77	Control of the Contro	6,066.06
320	4,683.76	4,967.49	12,210.89	1,404.25	22,818.08
401	16,830.45	16,827.18	21,477.16	74,092.51	
402	12,784.92	19,191.86	22,330.12	20,885.62	22,851.58
403	16,806.70	19,013.33	24,584.55	32,063.58	2,375.26
hoh	8,344.11	19,495.21	34,154.68	20,326.46	20,937.10
405	35.49	9,242.43	19,870.47	14,370.30	15,733.52
406	-	-	10,264.87	12,463.96	12,500.70
551	12,368.39	10,719.09	19,288.26	13,706.40	32,775.35
552	11,674.04	20,657.86	13,079.96	14,874.04	19,038.50
554	13,372.26	12,096.31	21,680.44	22,096.12	20,224.84
555	12,883.72	19,433.11	12,810.84	9,149.35	20,791.98
	13,935.16	13,591.53	20,239.46	14,999.66	22,553.93
556	12,289.61	12,775.33	15,511.91	13,261.45	20,049.04
557	9,521.95	18,485.87	10,552.25	23,269.10	22,203.07
558		14,081.69	12,144.10	12,898.11	23,011.42
559	11,463.96		10,387.47	10,207.38	20,422.21
560	5,928.12	15,329.19	14,021.15	13,389.10	21,480.29
561	-	8,962.62	20,599.14	12,504.86	25,194.08
562	7 700 07	8,116.48	20,000,000	Trapone	-
601	1,588.85	100		100	-
605	1,549.25			211	_
610	2,994.26				-
620	4,573.06	rie and all	27 790 30	77 500 50	11,925.42
701	24,425,26	57,775.74	35,580.39	11,540.50	18,494.32
702	31,120.68	22,981.17	17,943.39	14,210.89	11,785.74
703	32,740.16	22,690.09	26,134.04	33,432.00	
801	22,765.25	28,525.57	26,939.66	6,025.54	1,321.73
802	24,095.54	36,026.98	29,744.12	21,033.75	6,971.02
901	25,263.23	24,430.41	22,268.83	13,746.42	18,493.40
902	17,094.60	19,118.52	40,400.48	10,196.81	17,006.25
		100			

Loco No.		1947	1948	1949	1950	1951
The state of the s	- 37	7,152.00	42,300.40	29,173.67	27,040.07	29,752.24
1000		6,937.03	17,734.19	41,733.50	22,237.41	29,276.08
1001		0,751.05	+13124042	8,361.50	15,191.77	13,560.61
1010		3,622.98	17,269.59	25,330.94	16,727.86	30,835.45
1011		5,880.06	4,468.01	4,572.03	7,720.65	
1012		2,862.32	19,086.27	23,698.38	38,246.07	3
1013		2,307.26	15,213.52	20,758.64	11,670.30	28,112.24
1014		2,457.52	16,135.43	18,516.16	18,489.33	19,340.87
1015		4,421.00	6,507.10	16,223.51	20,153.51	23,048.39
1016		2 0	4,511.86	13,145.50	36,361.40	27,614.78
1017		1111-60		-	11,311.88	17,885.05
1018			-	16,706.78	16,507.98	13,376.86
1021		12	122	- /	5,722.83	21,548.35
1026			-	10,433.93	13,184.98	13,145.92
1027			4,183.39	18,023.26	13,148.93	30,785.49
1028		w Stranger	The same	The state of the s	7,175.46	21,341.02
1029		100			5,757.56	20,355.45
1030			_	- 4	5,402.57	10,403.64
1031				-	2,811.42	9,932.94
1032			_	2	-	11,242.53
1033					-	7,734.31
1034				341	11.7940	17,505.89
1035				-	(a)	4,664.66
1036			E	-	-	8,339.79
1041		The same of		-	4 //	9,967.81
1042		-		-	-	8,136.52
1043				-	-	7,330.25
1050		4,228.15	15,716.40	31,940.19	14,577.27	70,977.05
1051		2,044.74	15,538.71	31,993.48	17,114.12	79,691.69
1052		-			6,984.63	52,141.75
1054		-		-	6,859.18	35,255.04
1070		-	-	32.06	19,616.60	27,535.08
1072		-	-	-	16,790.92	31,132.01
1074		-		22	13,307.54	31,909.88
1075		-	-		20,284.20	37,227.65
1076		-	-	-	9,321.77	20,387.34
1077			-	11 19 11	9,059.16	28,504.77
1078		-	-	1,513.82	20,081.77	35,254.91
1089		-	2	-	7,674.54	14,925.89
1100		834.44	4,131.62	8,788.00	9,493.70	5,198.51
1101		804-46	5,251.40	4,393,23	6,616.48	1,220.50
1102		711.64	465.40	7,586.25	6,530.64	2,568.64
1103		374.56	9,200.88	6,403.76	14,776.50	11,676.39
1104		677.82	2,188.78	3,634.38	7,952.20	9,192.01
11.06		523.13	3,077.62	7,516.32	8,332.32	481.00
1107		-	2,680.95	2,674.25	2,594.46	5,259.08
1201		1,198.00	5,586.05	7,810.74	8,362.49	15,296.72
1202	5.	1,028.01	6,725.77	12,696.49	15,110.84	6,959.44
1203		421.82	6,072.13	7,334.38	7,350.50	15,905.63
1204		983.01	8,994.16	7,690.62	15,979.56	8,609.87
1300		-	Tit.	1,484.48	9,593.39	13,035.74

Accounting Department .

- 1. Furnish Steam and Diesel unit operating costs (use Tables 2, 3 & 4).
- 2. Furnish depreciation base and rates of the following equipment to be retired by this Dieselization.

BASE

\$1,451,367.72

310,317.69

410,354.47

None

None

None

RATE %

3.33%

3.77%

2.71%

- (a) Locomotives (use Table 5)
- (b) Account 18 Water Stations
- (c) Account 19 Fuel Stations Steam
- (d) Account 19 Fuel Stations Diesel
- (e) Account 20 Shops & Enginehouses
- (f) Account 14 Shop Machinery

3.	Furnish	selected	annual	operating	expense	for	vear	1951	(use	Table	6).
40.00			design and designation	a la a w a a Trail	MATERIAL CO.	100	Of on column	med by me	, and	- Charles	~ / B

4. Furnish Steam and Diesel locomotive miles and yard switching hours (use Tables 1 and 7).

Engineering Department

- 1. Furnish track profile with grades and curves indicated. Horizontal scale not less than one inch equals two miles.
- Furnish 8½" x 11" map of railroad.
- 3. Furnish copies of layout drawings of engine terminals and switching yards showing track layout with fuel and water servicing areas and enginehouses.
- 4. Fill in annual maintenance charges for year 1951.

Account

		231	Water Stations # 39,247.39
Not B	roken Down	233	Fuel Stations - STATE \$ 8,273.62 DINKER \$
11	и и	235	Shops & Enginehouses - XXXXX \$ 123,712.74 XXXXXXX \$
		302	Shop Machinery \$ 68,023.03

Stores Department

1. Fill in fuel costs on tender or locomotive:

(a) Coal per ton \$ 9.64

(b) Bunker "C" oil per gallon \$.08

(c) Diesel fuel oil per gallon \$ 1346

2. Fill in cost of lubricating oil per gallon including handling \$.94

3. Fill current selling price of Steam locomotive scrap per gross ton.

(a) On wheels \$ 14.85

(b) Cut up \$ 14.85

TABLE 1

ANNUAL HOURS AND DAILY ASSIGNMENTS IN YARD SWITCHING SERVICE

YEAR 1951

	Annual Hours Worked		Daily Assignments		Days Per	No. of Existing Locomotives		Road
Location	Steam	Diesel	Start	End	Week	Steam	Diesel	Number
/	384		11			6		310-320
	8					1		701
ABLE		5012					3	1000-100
AVAL		18028		KVRTLUETS			22	1010-104
n AVALIABLE		8		MAR			1	1072
		32	10				2	1101-110
		15991					4	1201-120
		5748	/				1	1300
		2140		-				
	+							
***	-				W			
			1					
		-	-					
		-						
		5:						
			-					
	70	1						
		+	1					
	+	-						
	-				-			
				L				

TABLE 2

OPERATING COSTS PER LOCOMOTIVE MILE FREIGHT SERVICE YEAR 195 1

Item	Steam Locomotive Through Local		Diesel Locomotive Through Local		
Repairs	\$ • 7955	\$	\$ •5790	\$	
Fuel	.8077	_	•1752		
Water					
Lubricants		T ABLE			
Other Supplies	И	OT AVAILABLE			
Enginehouse Expense					
		-	7215 - 13	-	
TOTAL	\$160.32	\$	\$75.42	\$	

TABLE 3

OPERATING COSTS PER PASSENGER LOCOMOTIVE MILE

YEAR 1951

Item	Steam	Diesel	
Repairs	\$ • 8848	\$ • 5521	
Fuel	•5603	-1780	
Water			
Lubricants	, in	MELLE	
Other Supplies	WOT AVAL		
Enginehouse Expense			
\$Ali	114.51		
TOTAL	\$	\$	

TABLE 4

OPERATING COSTS

PER YARD SWITCHING LOCOMOTIVE HOUR

YEAR 195_1

	Item	Steam	Diesel	
	Repairs	\$ • 11.4866	\$ • 3.3065	
	Fuel	4.8915	•7873	
	Water			
11.5	Lubricants		318	
	Other Supplies	NOT AVAIL	ADAM	
	Enginehouse Expense			
	TOTAL	\$ 16.3781	\$ 4.0938	

TABLE 5
DETAILS OF LOCOMOTIVE EQUIPMENT

Locomotive Numbers	Steam or Diesel	Class of Service	Number of Locos.	Light Weight Loco. & Tender (Pounds)	Depreciation Base	Depreciation Rate
10-320	Steam	Switcher	10 (c)		116,031,82	3.33%
01-406	Steam	Freight	6 (c)		203,119.85	3.33%
51-562	Steam	Psgr. & Fr	. 11 (c)		475,933.74	3.33%
01-703	Steam	Wrk Train	3 (c)		230,762,22	3,33%
) 801-802	Steam	Wrk.Train	2 (c)		203,694,35	3.33%
01, (a) 902	Steam	Wrk. Train	2 (c)		221,825.74	3.33%
000-1001	Diesel	Psgr.	2 (c)		219,543,74	3.33%
210-1043	Diesel	Frt.	21	223,000	466,323.81	3.33%
50 (ъ)	Diesel	Psgr.	1	266,000	72,177,58	3.33%
52-1078 (b)	Diesel	Psgr.	7	237,900	757,551,30	3.33%
1051(b)	Diesel	Psgr.	1	271,000	71,726.68	3.33%
1053-1077(ъ)	Diesel	Psgr.	6 (c)		309,837,78	3.33%
00 -1107	Diesel	Switcher	7 (c)		66,555,62	3.33%
01-1204	Diesel	Switcher	(c)		46,010,66	3.33%
100	Diesel	Switcher	1	232,000	18,560.51	3.33%
M						
Class of ser	THE RESERVE OF THE PARTY OF THE	is based or	present op	eration		
(b) Locomotive	s Class M-/	-A, Class M	-4-B, and C	lass M-14-Rs are eq	wipped with h-w	heel trucks
which in	he case of	some locomo	tives is con	strary to photosta	te showing 6-W	heel trucks
Numbers, I	ages 1 & 2	& Locomoti	ve Specific	See attached Locations Sheet. Dif	motive Classii ference in weig	hts due to
				cordingly; compar		
× 0 2	Complete 4-	wheel truck	including m	ptors, wheels and ptors, wheels and	axles equals -	42,000 lbs.
(c) In some ca	ses no ligh	nt weights a	re available	- loaded weights	shown on attac	ned prints.
Attached you	will find d	epreciation	base and de	preciation rates	for each locomo	live .