Report on Oil-Engine Power Cost for 1932[1]

THIS report presents information on the production cost of oil-engine power plants. Production cost in the meaning of this report is defined to consist of fuel cost; lubrication cost; cost of attendance and superintendence; cost of supplies and miscellaneous; cost of engine and plant repairs.

The report includes information from 140 oil-engine generating plants, containing 377 engines, totaling 213,910.5 rated brake horsepower. The total *net* output for the 140 plants in this report amounted to 282,466,690 kilowatt-hours. The coverage of this report as compared to that of previous reports is shown by the following table:

Year of report.....	1929	1930	1931	1932
Number of plants...	36	94	119	140
Number of engines..	107	283	330	377
Total rated bhp.....	68,775	181,583	190,768	213,910.5
Total output, net kwhr.....	134,766,761	309,369,930	333,066,644	282,466,690

The engines listed in the report are full-Diesel, vertical type, direct-connected to generators, unless otherwise noted in Tables III, IV, and V. All Diesel plants listed are located in the United States.

Plant Numbers. The system used in former reports of designating plants by number has been retained. Numbers identifying plants previously reported correspond to the same plants in this report.

Period Covered. All but ten of the plants of this report submitted data for a period of exactly 12 months each. Of the ten exceptions, five submitted data for periods varying between 11 and 13 months. The other five submitted data for 5 months, 6 months, 6.7 months, 8 months, and 8.1 months, respectively.

Bases for Costs and Performances. Unit costs referred to in this report were calculated on the basis of net kilowatt-hours. The net kilowatt-hour output is found by subtracting the power used for plant auxiliaries and station lights from the total gross output of the plant.

Figures given for power output per gallon of fuel oil and of lubricating oil were calculated on the basis of the gross outputs of the individual units and plants.

Formulas defining running engine capacity factor, running plant capacity factor, annual plant load factor, and plant service factor are as follows:

$$\text{Running engine capacity factor, per cent} = \frac{\text{Engine output in gross kwhr} \times 100}{\text{Kw rating} \times \text{number of hours operated}}$$

$$\text{Running plant capacity factor, per cent} = \frac{\text{Plant output in gross kwhr} \times 100}{\text{Total rated kwhr of individual units}}$$

$$\text{Annual plant load factor, per cent} = \frac{\text{Plant output in gross kwhr} \times 100}{\text{Peak load in kw} \times \text{number of hours in period}}$$

$$\text{Plant service factor, per cent} = \frac{\text{Total rated kwhr of individual units} \times 100}{\text{Total installed kw} \times \text{number of hours in period}}$$

The expression "rated kwhr" refers to the kilowatt rating of an engine-generator set multiplied by the number of hours operated. For example, if a unit having a rating of 200 kw was operated 4000 hours, the rated kwhr equals 800,000, no matter what the actual output may have been. Thus the denominator of the expression for "Running plant capacity factor" and likewise the numerator for the "Plant service factor" are arrived at by totaling the rated kilowatt-hours of all plant units. In this report, the kilowatt rating of an engine-generator set is considered equal to: Rated bhp $\times$ 0.746 $\times$ 0.9.

In the strict sense of its definition, the annual plant load factor cannot be correctly applied to data covering any period other than one year. However, the committee extended the application of this to plants operated 8760 hours plus or minus 2 per cent, using the actual number of hours in the denominator in each case.

The formula for "Plant service factor" requires further explanation for special cases. The expression is an index of the actual number of hours of operation as compared to the total number of hours installed for operation. Therefore, when some units have been installed for longer periods than have others in the same plant, account must be taken of the fact in the calculation. For example, assume that a plant is reported for a twelve-month period, during which time one unit rated at 200 kw, installed before the start of the period, was operated 5000 hours.

Six months after the start of the period, a unit rated at 300 kw was installed, and subsequently operated 2500 hours. The plant service factor in per cent is therefore:

$$\frac{200 \times 5000 + 300 \times 2500}{200 \times 8760 + 300 \times 4380} \times 100$$

Since the 300-kw unit was not installed during the entire 8760 hours, but only for 4380 hours, this adjustment must be made.

Fuel and Lubricating-Oil Data. The lubricating-oil economies of 110 plants generating 95 per cent or more of their outputs by means of full-Diesel units are shown graphically in Fig. 1, in which the kwhr output per gallon of lubricating oil is plotted against running plant capacity factor. (Eight of the full-Diesel plants did not report unit hours of operation, and running capacity factors could not be calculated for these.) Fuel-oil economies of the same 110 plants are shown graphically in Fig. 2, in which the gross kwhr output per gallon of fuel oil is likewise plotted against running plant capacity factor. The values plotted in Fig. 2 are corrected neither for the heat content of the fuel nor for altitude. The lubricating-oil and fuel-oil economies of 20 plants generating more than 5 per cent of their output by means of semi-Diesel units are shown in Figs. 3 and 4, respectively. (Two plants generating more than 5 per cent of their output by semi-Diesel units did not report unit hours of operation, and the running capacity factors could not be calculated for these.)

The type of the plant was judged to be that of the engines generating 95 per cent or more of the gross output. The following types of plants are illustrated in Figs. 1 to 4, inclusive:

Diesel four-stroke cycle, air injection
Diesel four-stroke cycle, mechanical injection
Diesel two-stroke cycle, air injection
Diesel two-stroke cycle, mechanical injection, separate scavenging

[1] Submitted by the Subcommittee on Oil Engine Power Cost, Oil and Gas Power Division, A.S.M.E., H. C. Major, Chairman, Committee of Public Utilities, Municipal Building, Rockville Center, L. I., N. Y.

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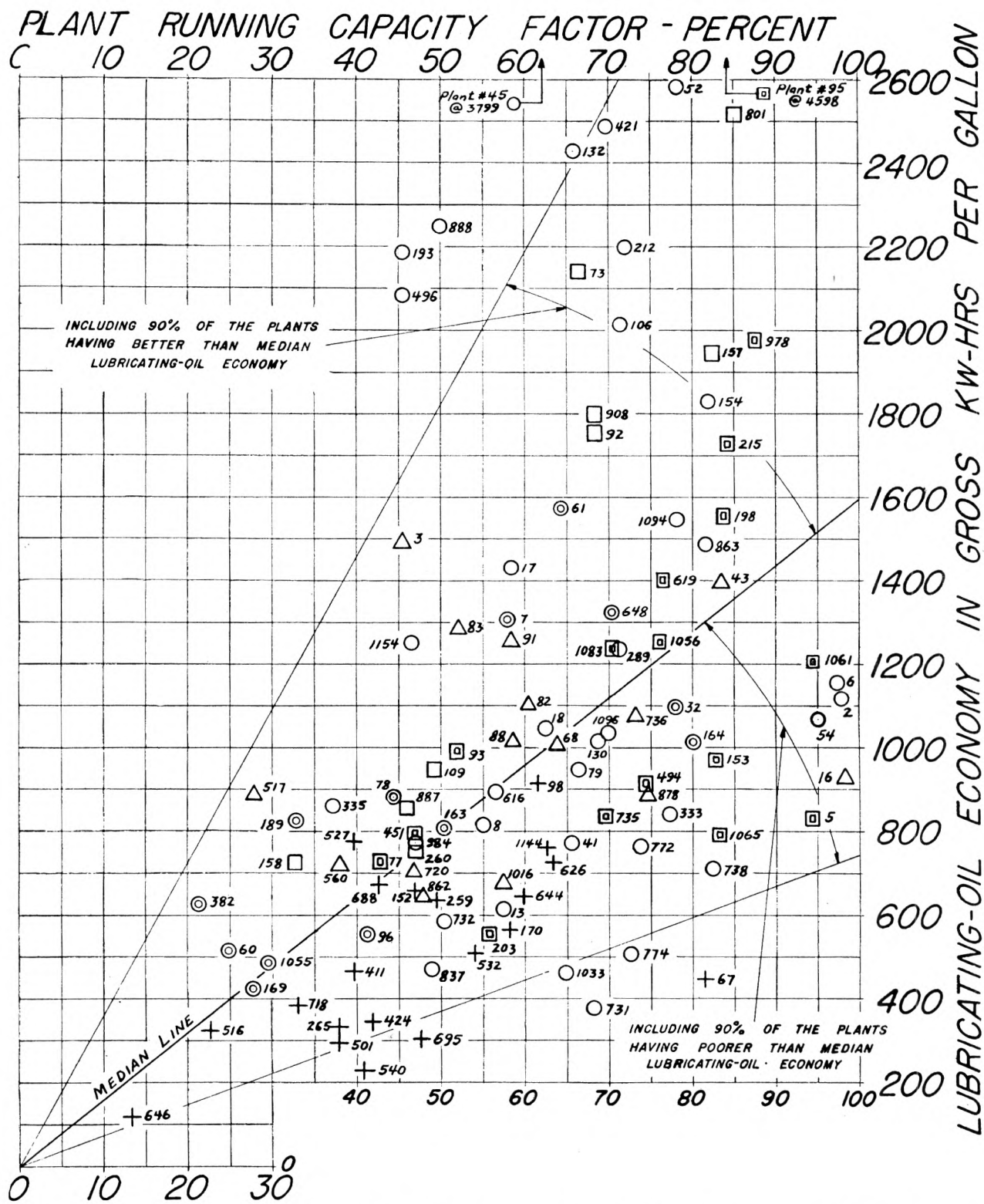


FIG. 1 LUBRICATING OIL ECONOMIES OF 110 FULL DIESEL PLANTS, NOT INCLUDING 8 FULL DIESEL PLANTS, RUNNING CAPACITY FACTORS FOR WHICH ARE NOT AVAILABLE

(For Key to Plant Symbols see Fig. 2.)

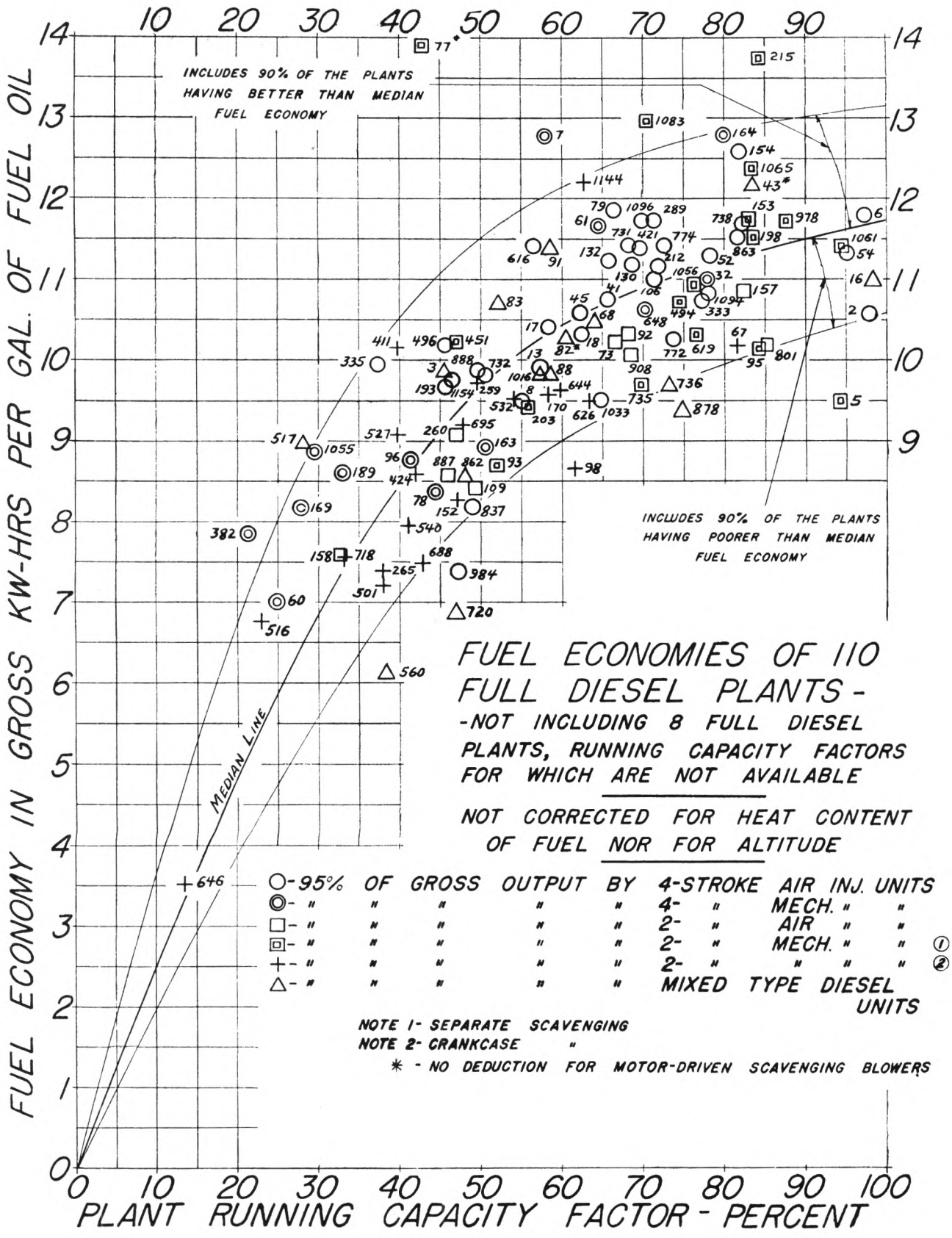
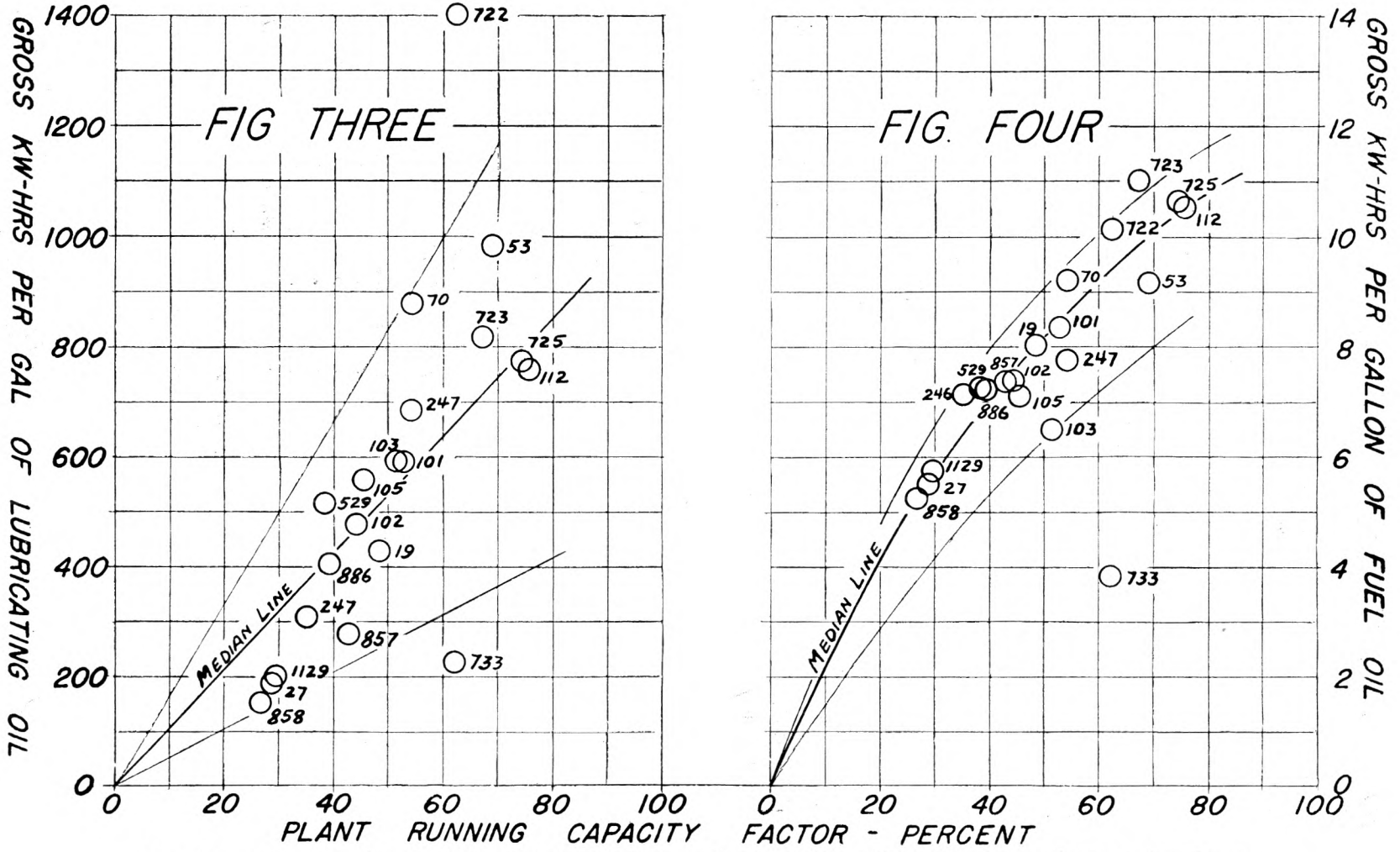

FUEL ECONOMY IN GROSS KW-HRS PER GAL. OF FUEL OIL
PLANT RUNNING CAPACITY FACTOR - PERCENT
INCLUDES 90% OF THE PLANTS HAVING BETTER THAN MEDIAN FUEL ECONOMY
INCLUDES 90% OF THE PLANTS HAVING POORER THAN MEDIAN FUEL ECONOMY
MEDIAN LINE
FUEL ECONOMIES OF 110 FULL DIESEL PLANTS -
-NOT INCLUDING 8 FULL DIESEL PLANTS, RUNNING CAPACITY FACTORS FOR WHICH ARE NOT AVAILABLE
NOT CORRECTED FOR HEAT CONTENT OF FUEL NOR FOR ALTITUDE
○- 95% OF GROSS OUTPUT BY 4-STROKE AIR INJ. UNITS
◎- " " " " " 4- " MECH. " "
□- " " " " " 2- " AIR " "
⊡- " " " " " 2- " MECH. " " (1)
+- " " " " " 2- " " " " (2)
△- " " " " " MIXED TYPE DIESEL UNITS
NOTE 1- SEPARATE SCAVENGING
NOTE 2- CRANKCASE "
* - NO DEDUCTION FOR MOTOR-DRIVEN SCAVENGING BLOWERS

FIG. 2



FIGS. 3 AND 4 FUEL- AND LUBRICATING-OIL ECOMOMIES OF 20 PLANTS GENERATING MORE THAN 5 PER CENT OF OUTPUT BY SEMI-DIESEL UNITS, NOT INCLUDING TWO SUCH PLANTS, RUNNING CAPACITY FACTORS FOR WHICH ARE NOT AVAILABLE

Diesel two-stroke cycle, mechanical injection, crankcase scavenging
Mixed-type full Diesel
Mixed Diesel and semi-Diesel

A median line was drawn on each chart, the number of points above the line being equal to the number below. High and low boundary lines were drawn to include all but 10 per cent of the plants on the high and low sides, respectively.

Unless it is otherwise noted in Table IV, plants received fuel oil in tank cars.

All fuel- and lubricating-oil costs include costs for the handling of oil from the cars to the tanks.

Cooling Water. The various water-cooling systems are indicated by the following symbols:

System A, raw water going to waste after one pass
System B, raw water recirculated after passing over cooling tower or spray pond
System C, soft water continuously recirculated, cooled by raw water going to waste after one pass through heat exchanger
System D, soft water continuously recirculated, cooled by raw water also recirculated after cooling by cooling tower or spray pond
System E, any of the foregoing systems with engine circulating water treated (added as a suffix).

Investment Costs. Due to the difficulty in obtaining reliable information on expenditures over past years and to the fact that such data may not reflect current costs, the committee decided to discontinue this feature of its investigations and did not solicit any information on this subject in this questionnaire for 1932.

Enforced Shutdowns. The term "enforced shutdown" is defined as any stoppage caused by actual or imminent engine trouble. The duration of an enforced shutdown is the time elapsing from the shutdown of the engine to the time at which the engine is again ready for service. A prearranged shutdown for maintenance work is not considered an enforced shutdown. There were some misunderstandings in regard to the committee's question calling for the number of hours expended on regular maintenance work. The uncertainty was, however, either corrected by correspondence with operators where sufficient time was available or a blank was left for the data. Regular maintenance time where listed is therefore the total time put in on regular maintenance work whether or not the units were actually needed during the time.

Peak Loads. The peak loads presented in the report are the highest average loads sustained for 15 minutes, unless otherwise stated in Table V.

Liner Wear. The committee realizes that liner wear is a complicated subject worthy of a separate investigation, and therefore decided not to continue a question on liner wear in the questionnaire for 1932. The committee has made recommendation to the Executive Committee of the Division that a separate investigation on this subject is advisable.

Repair Costs. All costs for repairs, whether to engines only or to all other plant equipment, listed in Table I, include the cost of materials delivered at the plant in question and the cost of any extra labor employed for the purpose of making these repairs. Unless otherwise noted, however, these costs do not include any charges for work done by regular attendants. Correspondingly, unless otherwise noted, the costs noted in Table I for attendance and superintendence have not been subject to deductions because of repair work done by the regular attendance crews. The committee has incorporated a new feature in the current report—namely, the listing of major parts renewed during the period. This information is set forth in Table V.

Attendance and Superintendence. The committee has extended the range of reported data in connection with attendance by securing and reporting the number of shifts per year and the net kwhr produced per man-hour of attendance and superintendence. Attendance ratios for 103 full-time attended plants are shown graphically in Fig. 5, in which the net kwhr output per man-hour is plotted against plant service factor. (Twenty plants of the report were attended part-time; twelve plants did not report data required for calculating service factors; five plants did not report shift data necessary for the calculation of net output per man-hour. None of these plants are shown in Fig. 5.)

Supplies and Miscellaneous. Supplies in the meaning of this report are such items used in the power-generating plant which are consumed in the operating process—namely, such items as waste, packing, wipers, gage glasses, gaskets, bolts, screws, nails, dynamo and motor brushes, cans for containing rags and waste, transformer oil and hand oil cans. The term "miscellaneous" as used in this report refers to such items as expenditures for lighting, heating, and cleaning systems, fire-protection systems, janitor's supplies, ice water, meals and carfares, stationery, telephone and toilet service, care of streets, yards and sidings.

Type of Load. The terms used for type of load are defined as follows:

Complete Power.—The plant is run regularly alone when needed, without assistance from any base- or peak-load service
Base Load.—The plant is run at substantially full load whenever its capacity can be used, usually supplemented by a peak-load service. When full or nearly full capacity cannot be used, the plant is shut down
Peak Load.—The plant is run only when the load exceeds the capacity of the regular source of power
Standby.—The plant is run only when the regular source of power is interrupted.

For this investigation, the committee requested information also on the type of power supplemented by base load, peak load, and standby plants. Information obtained in accordance with this request is presented in Table I.

Total Production Costs. Total production costs for 135 plants reporting for one year each (plus or minus one month) are shown graphically on logarithmic coordinates in Fig. 6, in which total production cost in mills per net kwhr is plotted against specific output, or the output in net kwhr per year per kw of installed capacity.

Calculations. All original calculations and correspondence with operators were carried on by Messrs. Robert T. Brown and George V. Khrennikoff, who were employed to assist the committee.

The committee wishes to acknowledge its appreciation of the splendid services of Franz Eder, who has been chairman of the committee since its organization, and to announce with regret his resignation as chairman. H. C. Major has been appointed to succeed Mr. Eder as chairman.

SUBCOMMITTEE ON OIL-ENGINE POWER COST

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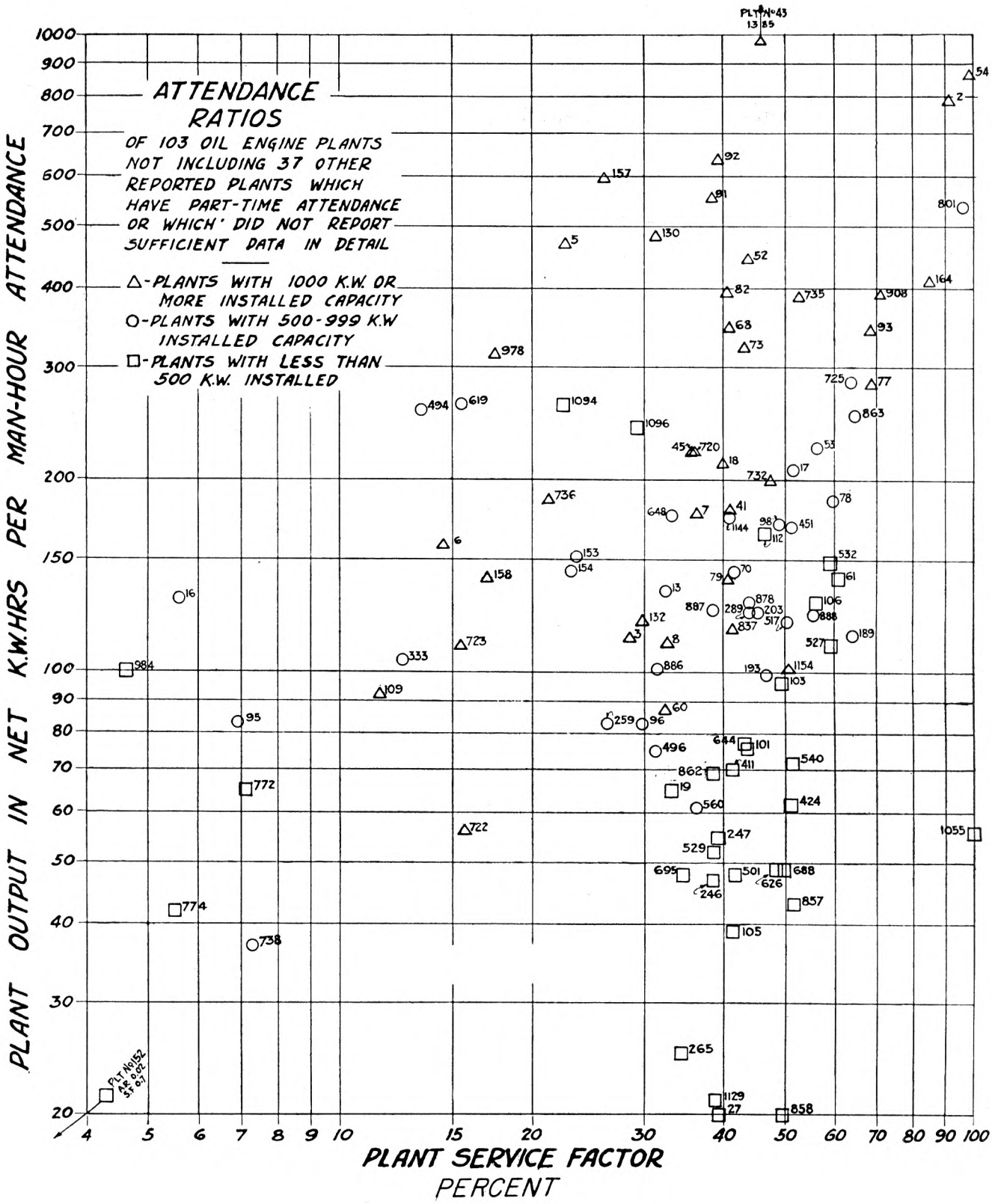
ATTENDANCE RATIOS
OF 103 OIL ENGINE PLANTS NOT INCLUDING 37 OTHER REPORTED PLANTS WHICH HAVE PART-TIME ATTENDANCE OR WHICH DID NOT REPORT SUFFICIENT DATA IN DETAIL
△-PLANTS WITH 1000 K.W. OR MORE INSTALLED CAPACITY
○-PLANTS WITH 500-999 K.W INSTALLED CAPACITY
□-PLANTS WITH LESS THAN 500 K.W. INSTALLED
PLT No 43 13.85
PLT No 152 AF 0.02 SF 0.7
PLANT OUTPUT IN NET K.W.HRS PER MAN-HOUR ATTENDANCE
PLANT SERVICE FACTOR PERCENT

FIG. 5

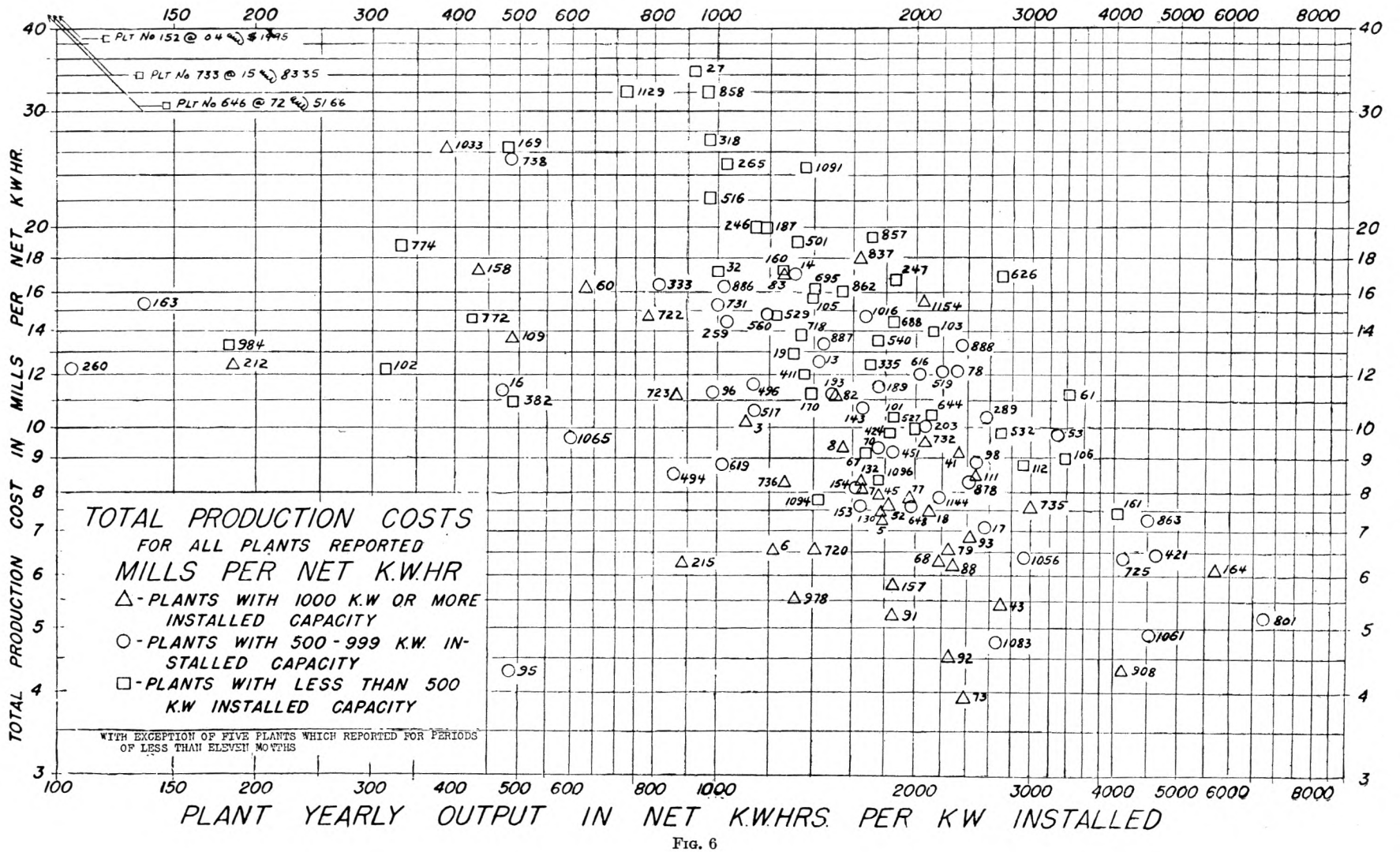
PLT No 152 @ 04 = $1995
PLT No 733 @ 15 = 8335
PLT No 646 @ 72 = 5166
TOTAL PRODUCTION COSTS
FOR ALL PLANTS REPORTED
MILLS PER NET K.W.HR
△ - PLANTS WITH 1000 K.W OR MORE INSTALLED CAPACITY
○ - PLANTS WITH 500 - 999 K.W. INSTALLED CAPACITY
□ - PLANTS WITH LESS THAN 500 K.W INSTALLED CAPACITY
WITH EXCEPTION OF FIVE PLANTS WHICH REPORTED FOR PERIODS OF LESS THAN ELEVEN MONTHS
TOTAL PRODUCTION COST IN MILLS PER NET KWHR.
PLANT YEARLY OUTPUT IN NET K.WHRS. PER KW INSTALLED
100 150 200 300 400 500 600 800 1000 2000 3000 4000 5000 6000 8000
3 4 5 6 7 8 9 10 12 14 16 18 20 30 40

Fig. 6

TABLE I - INFORMATION ON PRODUCTION COST (PAGE 1)

PLANT NUMBER	CHARACTER OF PLANT (SEE NOTES)	TYPE OF LOAD (SEE NOTES)	NUMBER OF ENGINES	TOTAL INSTALLED S. H. P.	TOTAL INSTALLED K. V. A.	TOTAL PLANT HOURS OPERATED IN REPORTED PERIOD	NUMBER OF MONTHS IN REPORTED PERIOD	TOTAL GROSS OUTPUT K. W. HRS.	TOTAL NET OUTPUT K. W. HRS.	PER CENT OF GROSS K.W. HRS. FOR PLANT PURPOSES	ANNUAL PLANT LOAD FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	PLANT SERVICE FACTOR (SEE TEXT)	AVERAGE COST OF FUEL OIL -CENTS PER GALLON	AVERAGE COST OF LUBRICATING OIL - CENTS PER GALLON	COSTS PER NET K. W. HR. - MILLS								PLANT NUMBER
																FUEL COST	LUBRICATING OIL COST	ATTENDANCE COST, INCLUDING SUPERINTENDANCE	COST OF SUPPLIES AND MISCELLANEOUS, INCLUDING WATER	COST OF ENGINE REPAIRS	COST OF ALL OTHER PLANT REPAIRS	COMBINED COST OF ALL REPAIRS, SUPPLIES, AND MISCELLANEOUS	TOTAL PRODUCTION COST	
43	U	C	9	15640	14850	8784	12	32,116,114	28,374,009	11.6	57.1	83.3	46.0	3.48	37.7	3.23	0.31	0.86	0.30	0.56	0.14	1.00	5.40	43
82	M-W	C	7	8960	8102	8760	12	9,426,420	9,065,633	3.8	33.0	60.3	40.5	4.48	66.3	4.52	0.63	2.81	0.47	1.13	1.57	3.17	11.13	82
52	M	C	5	7445	6380	8760	12	9,281,200	9,110,000	1.8	36.3	78.1	43.8	4.41	69.6	3.97	0.27	2.35	0.52	0.35	0.14	1.01	7.60	52
91	U	C	5	5250	4595	8784	12	6,942,100	6,490,050	6.5	48.6	58.4	38.4	3.12	41.8	2.93	0.36	1.57	0.14	0.12	0.05	0.31	5.17	91
73	M-W	C	4	5000	4252	8764	12	8,509,500	8,030,200	5.6	42.0	66.4	43.4	1.22	58.4	1.26	0.29	2.01	0.16	0.16	0.02	0.34	3.90	73
92	U	C	3	4900	4250	6784	12	7,757,200	7,451,947	3.9	44.2	68.2	39.3	2.04	47.9	2.05	0.28	1.34	0.26	0.54	0.03	0.83	4.50	92
45	M	G	5	4250	3625	8784	12	5,577,375	5,015,575	10.1	42.3	62.1	35.8	3.87	36.3	4.07	0.11	2.05k	0.05	1.33k	0.32	1.70	7.93	45
54	I	B-T	7	4200	3150	5856	8a	15,507,500	15,187,500	2.1	----	95.1	98.7	1.38	30.0	1.24	0.29	1.02	0.54	0.53		1.07	3.62	54
130	M	C	4	3600	3150	8764	12	4,556,800	4,281,230	6.0	44.7	68.6	31.3	4.02	62.9	3.83	0.66	1.65	0.47	0.68	0.19	1.34	7.48	130
157	U	V-T&Z	2	3520	3000	7320	12	4,438,850	4,376,509	1.4	19.8	82.3	26.0	4.16	46.8	3.88	0.24	0.80	0.24	0.58	0.05	0.87	5.79	157
2	W	B&P--	3	3450	3000	4306	8.1b	8,901,260	8,839,511	0.7	----	97.8	91.2	2.33	27.2	2.22	0.24	1.03	0.10	1.11	0.08c	1.29	4.78	2
164	I	B-T&Z	4	3360	4000	6764	12	13,463,600	12,838,281	4.6	----	80.0	84.9	2.59	26.2	2.12	0.27	1.28	0.55	1.37	0.46	2.38	6.05	164
3	M-W	C	4	3125	2632	8784	12	2,384,995	2,321,395d	2.7	31.6	45.4	28.5	4.60	38.9	4.78	0.27	4.54	0.25	0.35	0.01	0.61	10.19	3
720	U	C	5	3080	2500	8784	12	3,053,100	2,920,600	4.3	34.8	46.8	35.9	2.92	40.0	4.45	0.59	1.24	0.07	0.20	0.01	0.28	6.56	720
77	U	C	1	3000	2812	6048	12	5,208,800	3,978,113	23.6	34.9	42.8	68.9	4.52	30.2	4.25	0.54	2.10	0.48		0.49	0.97	7.86	77
109	M	P-	3	2925	2450	8784	12	973,120	959,606	1.4	8.9	49.2	11.5	5.69	60.0	6.85	0.64	5.01	0.24	0.75	0.10	1.09	13.59	109
7	M	C	5	2730	2625	8784	12	3,383,400	3,105,742	8.2	42.5	57.9	36.3	3.27	29.6	2.78	0.25	3.29	0.42	0.96	0.39	1.77	8.09	7
732	U	B-T	5	2520	2150	8784	12	3,550,900	3,497,637	1.5	27.5	50.4	47.4	3.17	42.0	3.27	0.73	2.09	0.57	2.48	0.37	3.42	9.51	732
978	U	S--	3	2520	2100	----	12	2,274,700	2,223,852	2.2	14.4	87.6	17.5	3.57	51.2	3.11	0.27	1.41	0.35		0.39	0.74	5.53	978
908	U	B--	2	2500	2200	8784	12	7,157,100	6,911,024	3.4	51.0	66.5	70.8	1.71	36.4	1.76	0.22	1.36	0.11	0.77	0.07	0.95	4.29	908
93	U	C	4	2480	2116	8856	12.1	4,325,200	4,058,720	6.2	34.9	52.0	68.5	3.09	38.9	3.78	0.42	1.81	0.10	0.67	0.05	0.82	6.83	93
111	M	C	3	2475	2120	8784	12	4,529,900	4,105,401	9.4	37.6	----	----	3.23	50.6	3.03	0.49	3.88	0.31	0.24	0.48	1.03	8.43	111
1149	U	S-T	2	2400	2091	----	6	617,470	592,781	4.0	----	----	----	3.68	52.1	3.19	0.22	1.99	0.57		0.03	0.60	6.00	1149
60	I	C	3	2400	2025	8784	12	1,135,200	1,015,200	10.6	13.7	24.8	32.3	4.69	33.5	7.48	0.73	5.22	0.60		2.16	2.76	16.19	60
723	U	S&P-T	4	2370	2010	8784	12	1,445,700	1,371,480d	5.1	10.9	67.2	15.4	4.31	57.1	4.13	0.74	3.71	0.76		1.79	2.55	11.13	723
41	M-W	C	3	2370	1800	8784	12	3,748,090	3,698,090d	1.3	35.6	65.5	41.0	4.10	46.9	3.86	0.62	4.05	0.23	0.26	0.08	0.57	9.10	41
79	M	C	5	2170	1858	8784	12	3,456,400	3,280,357	5.1	39.3	66.4	40.6	2.49	40.7	2.21	0.45	3.53	0.11	0.23	0	0.34	6.53	79
5	U	S--	3	2160	----	----	12	2,721,770	2,597,100	4.8	21.5	94.4	22.6	3.54	51.4	3.90	0.65	1.31	0.53		0.86	1.39	7.25	5
6	U	C	4	2100	----	----	12	1,751,200	1,720,413	1.8	11.7	97.4	14.5	3.94	50.9	3.40	0.45	1.64	0.25		0.80	1.05	6.54	6
68	M	C	4	2000	1744	8784	12	3,179,500	3,038,210	4.4	54.8	63.9	40.9	3.60	40.0	3.60	0.42	1.54	0.18	0.43	0.08	0.69	6.25	68
83	M-W	C	3	2000	1735	8784	12	1,787,500	1,687,500	5.6	35.1	52.0	----	5.00	55.0	4.95	0.45	6.40	1.48	1.72	1.86	5.08	16.88	83
215	U	S-H	2	1960	1690	8784	12	1,195,000	1,163,370d	2.6	9.8	84.2	12.3	5.14	48.9	3.84	0.29	1.48	0.55	0.07	0	0.62	6.23	215
736	U	P-H&T	3	1925	1572	8784	12	1,765,500	1,637,155	7.3	----	73.2	21.2	2.74	64.2	3.04	0.64	1.87	0.35	1.91	0.46	2.72	9.27	736
837	U	C	5	1875	1625	8784	12	2,227,749	2,057,699	7.6	37.9	48.9	41.2	2.49	34.8	3.29	0.80	5.89	0.48	6.63	0.90	8.01	17.99	837
1033	U	S&P-T	4	1850	1300	8784	12	499,020	460,770	3.7	6.2	64.8	7.1	3.42	25.9	3.73	0.58	10.33	4.05	6.44	1.18	11.67	26.31	1033
158	U	S&P-T&Z	1	1760	1500	3660	12	577,178	512,498	11.2	6.0	32.7	17.0	5.87	68.2	8.69	1.06	3.00	2.62	1.09	0.77	4.48	17.23	158
212	W	S--	2	1750	1342	8784	12	217,800	217,147d	0.3	4.4	71.8	2.9	3.60	65.2	3.22	0.30	2.14e	0.29	6.40e	0	6.69	12.35	212
722	U	S&P-T	4	1705	1450	8784	12	984,890	896,220d	9.0	10.0	62.4	15.7	4.68	79.2	5.07	0.63	6.53	0.94		1.61	2.55	14.78	722
735	U	S--	2	1680	1400	8784	12	3,623,400	3,390,240	6.4	36.8	69.7	52.5	3.64	63.0	4.01	0.81	0.89	0.22	1.11	0.50	1.83	7.54	735
18	U	C	3	1650	----	----	12	2,422,980	2,327,071	4.0	26.3	62.4	40.0	3.74	51.4	3.78	0.51	1.72	0.34		1.10	1.44	7.45	18
88	M-W	C	4	1620	----	----	12	2,529,724	2,497,042	1.3	41.2	58.6	----	2.31	47.3	2.39	0.47	2.86	0.36	0.10	0	0.46	6.18	88
8	M-W	C	3	1560	----	8784	12	1,652,980	1,627,980	1.5	31.4	55.0	32.7	3.04	43.0	3.26	0.54	4.85	----	----	- --	0.62	9.27	8
1154	M	C	2	1500	1120	8784	12	2,073,500	2,044,267	1.4	36.3	46.5	50.5	5.84	85.8	6.07	0.70	7.04	1.17	0.07	0.39	1.63	15.44	1154
132	M	C	3	1500	1289	8784	12	1,738,900	1,665,900d	4.2	36.7	65.7	29.9	3.56	55.0	3.31	0.24	4.41	0.33	0.08	0	0.35	8.31	132
289	M	C	4	1465	1232	8784	12	2,689,380	2,528,017d	6.0	56.5	71.1	43.9	4.17	50.0	3.78	0.43	4.60	0.32	0.12	1.13	1.57	10.38	289
496	M	C	3	1450	1240	8760	12	1,207,025	1,101,905	8.7	21.1	45.5	31.1	4.02	64.0	4.32	0.24	5.48	0.52	0.51	0.42	1.45	11.59	496
70	M-W	C	3	1420	1190	8784	12	1,888,800	1,675,057	11.3	38.4	54.3	41.5	3.03	41.2	3.71	0.53	4.25	0.27	0.53	0	0.80	9.29	70
198	U	P-T&Z	1	1400	1392	2791	6.7	2,195,580	2,089,869	4.8	----	83.6	56.7	3.63	50.3	3.31	0.34	0.42	0.06	0.12	0.05	0.23	4.30	198
163	I	P-T	3	1400	1311	8784	12	141,590	127,335	10.1	1.7	50.4	3.4	0.97	26.2	1.21	0.36	7.30	0.36	5.53	0.58	6.47	15.34	163
154	U	C	3	1400	----	----	12	1,548,990	1,521,613	1.8	29.4	81.9	23.0	3.47	51.5	2.81	0.29	4.18	0.33		0.48	0.81	8.09	154
888	U	C	3	1375	1200	8784	12	2,236,100	2,168,250d	3.0	31.0	49.8	55.4	4.02	75.5	4.21	0.35	5.19	1.43	1.35	0.76	3.54	13.29	888
517	M	C	2	1375	1250	8760	12	1,129,920	1,050,715	7.0	30.7	27.9	50.1	3.74	50.0	4.48	0.61	4.84	0.25	0.05	0.40	0.70	10.63	517
1016	U	C	3	1365	1112	8784	12	1,583,630	1,527,380d	3.6	28.1	57.4	34.3	5.08	47.7	5.35	0.73	5.40	0.03		1.26	1.29	14.77	1016
886	U	C	4	1305	1090	8784	12	951,088	889,868	6.4	28.5	39.3	31.4	4.74	52.5	7.00	1.39	5.20	1.68	0.89	0.18	2.72	16.31	886
13	M-W	C	3	1225	1000	8784	12	1,348,000	1,176,048	12.6	36.0	57.4	32.4	5.13	36.4	5.94	0.68	4.50	0.48	0.59	0.37	1.44	12.56	13
1083	U	B-T&Z	1	1200	1042	5490	12	2,182,827	2,144,290	1.8	24.9	70.5	43.8	3.58	50.1	2.81	0.41	1.04	0.26	0.15	0.08	0.49	4.75	1083
725	U	B-T	3	1200	1007	8784	12	3,362,149	3,324,653	1.1	59.8	74.4	63.8	3.62	62.0	3.43	0.81	1.70	0.18	0.24	0.02	0.44	6.38	725
451	M	C	2	1200	1024	8764	12	1,693,200	1,481,990	12.5	41.0	46.9	51.0	3.43	36.2	3.83	0.52	3.50	0.21	0.11	0.98	1.30	9.15	451
333	U	B-Z&H	1	1200	938	6222	12	680,400	650,831	4.4	----	77.2	12.5	5.50	56.2	5.36	0.70	6.66	2.86	0.75	0.02	3.63	16.35	333
17	U	C	2	1200	----	----	12	2,121,600	2,064,882	2.7	24.1	56.3	51.4	3.71	52.6	3.67	0.38	1.66	0.38		0.98	1.36	7.07	17
16	U	P-T	3	1200	1012	2928	12	388,590	379,610	2.3	5.5	96.2	5.6	3.69	49.0	3.43	0.54	3.82	2.04	0.65	0.87	3.56	11.35	16
14	M-W	C	2	1200	----	8784	12	1,116,200	1,050,620	5.9	----	----	----	4.98	50.0	6.19	0.67	5.23	1.45	2.65	0.83	4.93	17.02	14
878	U	B-T	3	1160	977	8784	12	2,239,030	1,878,245	16.1	32.3	74.6	43.9	2.71	51.6	3.44	0.70	2.39	0.63	0.50	0.00	1.73	8.26	878
193	M-W	C	2	1155	1040	8764	12	1,453,990	1,159,612	20.2	36.8	45.5	46.9	3.73	67.6	4.83	0.39	5.10	0.91	0.04	0	0.95	11.27	193
616	M	C	3	1150	982	8784	12	1,711,310	1,565,000	8.5	39.0	56.5	44.7	4.51	52.3	4.31	0.64	4.04	1.06	1.97	0	3.03	12.02	616
887	U	C	3	1140	938	8784	12	1,195,560	1,102,053	7.8	42.5	48.9	38.7	4.16	77.9	5.26	0.89	5.25	1.74	0.06	0.09	1.89	13.39	887
95	U	S-T	2	1120	938	4393	12	381,600	365,350	4.3	9.7	84.2	6.9	2.38	41.0	2.44	0.09	1.48	0.25	0.03	0	0.28	4.29	95
96	U	C	3	1100	920	8784	12	792,400	727,300	8.2	17.7	41.2	29.8	2.82	42.8	3.51	0.84	5.78	0.32	0.62	0.18	1.12	11.25	96
143	M-W	C	3	1080	900	8784	12	1,264,401	1,200,000d	5.1	44.3	----	----	3.31	79.6	3.59	1.48	3.90	1.40	0.37	0	1.77	10.74	143
78	I	C	2	1060	1000	8088	11	1,528,497	1,507,615	1.4	----	44.4	59.8	5.15	33.1	6.23	0.38	4.50	0.49		0.61	1.00	12.11	78
519	M-W	C	3	1060	890	8784	12	1,657,470d	1,561,470	5.8	47.2	----	----	5.42	43.0	4.58	0.70	3.08	----	----	----	3.75	12.11	519
1144	M-W	C	3	1050	873	8784	12	1,585,000	1,534,790	3.2	36.4	62.6	40.9	4.87	57.2	4.12	0.77	2.03	----	----	----	0.88	7.80	1144
259	M-W	C	3	1050	870	8784	12	799,832	725,222	9.3	41.4	49.5	26.1	5.08	52.1	5.77	0.91	7.30	0.43	0.02	0	0.45	14.43	259
203	M	C	2	1050	894	8856	12.1	1,562,600	1,464,600	6.3	42.0	55.7	45.0	3.37	49.2	3.81	0.95	4.56	0.72	0	0	0.72	10.04	203
801	U	B--	1	1000	937	8451	12	4,857,200	4,524,387	6.5	78.7	85.2	96.2	3.20	63.4	3.36	0.27	1.04	0.14	0.30	0.06	0.50	5.17	801
738	U	S&P-H&T	1	1000	900	8784	12	353,500	324,600	8.2	6.7	82.3	7.3	1.87	38.6	1.74	0.59	8.10	1.64	11.26	1.98	14.91	25.34	738
1061	U	P-Z&T	1	980	975	4985	12	3,081,100	2,974,884	3.4	50.1	94.5	56.4	3.25	41.5	2.95	0.36	0.61	0.14	0.59	0.25	0.98	4.90	1061
863	U	B--	2	975	875	8784	12	3,029,500	2,950,500d	2.6	62.6	81.6	64.5	4.01	67.3	3.57	0.46	1.60	0.59	0.85	0.19	1.63	7.26	863

TABLE I - INFORMATION ON PRODUCTION COST (PAGE 2)

PLANT NUMBER	CHARACTER OF PLANT (See Notes)	TYPE OF LOAD (See Notes)	NUMBER OF ENGINES	TOTAL INSTALLED B. H. P.	TOTAL INSTALLED K. V. A.	TOTAL PLANT HOURS OPERATED IN REPORTED PERIOD	NUMBER OF MONTHS IN REPORTED PERIOD	TOTAL GROSS OUTPUT - K. W. HRS.	TOTAL NET OUTPUT - K. W. HRS.	PER CENT OF GROSS K. W. HRS. FOR PLANT PURPOSES	ANNUAL PLANT LOAD FACTOR (See Text)	RUNNING PLANT CAPACITY FACTOR (See Text)	PLANT SERVICE FACTOR (See Text)	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	AVERAGE COST OF LUBRICATING OIL - CENTS PER GALLON	COSTS PER NET K.W. HR. - MILLS: FUEL COST	LUBRICATING OIL COST	ATTENDANCE COST, INCLUDING SUPERINTENDANCE	COST OF SUPPLIES AND MISCELLANEOUS, INCLUDING WATER	COST OF ENGINE REPAIRS	COST OF ALL OTHER PLANT REPAIRS	COMBINED COST OF ALL REPAIRS, SUPPLIES, AND MISCELLANEOUS	TOTAL PRODUCTION COST	PLANT NUMBER
1065	U	S&P-T	1	900	774	-----	12	380,160	363,000	4.5	8.7	83.3	8.6	3.81	49.9	3.22	0.66	1.65	1.82	1.04	1.25	4.11	9.64	1065
560	M-W	C	3	900	776	8784	12	731,930	719,930[d]	1.6	26.9	38.2	36.2	2.76	52.1	4.57	0.74	6.79	0.32	2.26	0.19	2.77	14.87	560
260	M	S-H	1	900	750	319	12	90,700	63,389	30.1[h]	1.7	47.0	3.6	3.39	75.0	5.34	1.42	5.26	0	0.18	0	0.18	12.20	260
98	U	B-T	3	900	740	8784	12	1,597,500	1,500,880[d]	6.1	42.8	61.5	48.9	3.74	40.6	4.59	0.47	3.04	0.41	0.30	0.09	0.80	9.90	98
53	U	B-T	3	900	758	8784	12	2,057,980	1,975,660[d]	4.0	44.2	69.0	56.2	2.55	38.6	2.90	0.41	2.21	0.41	3.79	0.02	4.22	9.74	53
189	M	C	3	850	730	8784	12	1,052,120	998,200	5.1	41.4	32.8	64.1	2.76	64.3	3.38	0.82	5.86	0.34	1.12		1.46	11.52	189
1056	U	P-T	1	840	700	4166	12	1,791,070	1,655,114	7.6	34.0	76.2	47.4	3.12	26.4	3.09	0.23	1.80	0.62	0.42	0.24	1.28	6.40	1056
619	U	B-T	1	840	700	2196	12	588,300	575,200	2.2	12.2	76.5	15.5	3.53	50.0	3.51	0.37	1.96	1.06	1.55	0.32	2.93	8.77	619
494	U	B-T	1	840	700	1884	12	495,200	482,220	2.6	11.3	74.5	13.4	3.51	48.6	3.38	0.84	1.88	0.87	0.60	1.22	2.69	8.49	494
153	U	S--	1	840	700	----	12	969,410	929,460	4.1	19.7	82.7	23.6	3.55	49.1	3.18	0.53	2.65	0.78	0.46		1.24	7.60	153
731	U	S-T	1	825	750	8784	12	585,805	554,765	5.3	11.1	68.2	17.7	4.00	42.0	3.70	1.17	7.50	1.20	1.63	0.09	2.92	15.29	731
648	U	B-T	2	800	666	6280	12	1,099,530	1,068,900	2.8	31.3	70.2	33.2	3.23	50.0	3.12	0.39	3.13	0.40	0.46	0.11	0.97	7.61	648
421	M-W	C	1	800	681	8784	12	2,631,800	2,485,900	5.5	57.1	69.6	80.2	2.20	43.0	2.04	0.18	4.23[f]	0	0	0	0	6.45	421
112	M-W	C	3	740	620	8784	12	1,545,900	1,443,130	6.7	41.9	75.8	46.7	3.52	45.4	3.57	0.64	4.19	0.23	0.06	0.04	0.33	8.73	112
718	U	C	2	720	600	8784	12	717,320	644,337	10.2	51.0	33.0	51.2	3.61	35.4	4.08	1.02	5.39	0.64	1.05	0.77	2.46	13.85	718
532	M	C	2	720	600	8784	12	1,352,300	1,304,980	3.5	38.5	54.0	59.0	4.17	53.7	4.55	1.09	2.97	0.81	0.39	0	1.20	9.81	532
527	M	C	2	720	600	8784	12	997,200	967,000	3.0	31.1	39.6	59.2	3.10	61.0	3.52	0.81	5.08	0.24	0.25	0.03	0.52	9.93	527
170	I	C	2	720	600	2778	12	703,156	675,376[d]	4.0	17.4	58.2	28.5	5.53	45.8	6.01	0.84	2.71	0.22	1.41		1.63	11.19	170
67	P	C	2	720	500	8784	12	811,000	810,190[d]	0.1	44.0	81.5	23.4	4.47	42.2	4.39	0.94	2.30	0.30	1.04	0.12	1.46	9.09	67
19	U	C	3	700	---	----	12	661,930	612,980	7.4	36.7	46.5	33.1	3.63	53.7	4.87	1.35	4.96	1.01	6.67		1.68	12.88	19
411	M	C	3	680	470	8784	12	657,670[d]	617,670	6.1	34.0	39.7	41.3	3.42	37.2	3.58	0.85	6.97	0.15	0.07	0.38	0.60	12.00	411
529	M	C	4	620	490	8784	12	541,636	507,636	6.3	34.3	38.4	38.6	3.60	45.0	5.28	0.93	6.21	1.92	0.21	0.20	2.33	14.75	529
106	U	C	1	600	---	----	12	1,409,410	1,358,285	3.6	31.5	71.4	55.8	3.77	53.0	3.57	0.27	3.07	0.74	1.33		2.07	8.98	106
1096	U	B-T	1	600	513	2928	12	725,880	708,626	2.4	19.7	69.9	29.3	3.88	50.1	3.39	0.80	2.09	0.85	1.45	0.27	2.57	8.35	1096
1094	U	B-T	1	600	513	2196	12	619,170	572,600	7.5	17.2	78.0	22.4	3.79	49.7	3.78	0.35	1.52	1.24	0.37	0.50	2.11	7.76	1094
644	M-W	C	2	600	496	8784	12	912,200	846,916	7.2	40.4	59.8	43.1	4.04	58.6	4.53	0.98	4.02	0.75	0.04	0.06	0.85	10.38	644
61	I	C	2	600	550	8784	12	1,382,500	1,380,330	0.2	37.9	64.3	60.7	4.63	60.3	3.97	0.38	5.76	0.04	1.02	0.03	1.09	11.20	61
32	I	C	1	600	572	8784	12	414,600	402,600[d]	2.9	10.5	77.9	15.0	5.45	55.1	5.09	0.31	10.95	0.17	0.29	0	0.46	17.11	32
103	U	C	3	590	525	8784	12	890,540	842,314	5.4	40.5	51.4	49.7	3.94	39.9	6.42	0.71	5.13	0.80	1.00	0.25	1.75	14.01	103
862	U	C	4	588	495	8784	12	644,280	609,820	5.4	31.2	47.9	58.6	3.14	45.9	3.87	0.75	3.69	0.47	1.71	0.48	2.66	15.97	862
102	U	C	3	580	475	2262	12	139,210	122,230	12.2	9.9	44.2	9.2	2.31	45.2	3.56	1.08	7.04	0.29	0.10	0.11	0.50	12.18	102
540	M	C	2	540	420	8784	12	668,300	633,751	5.2	28.2	40.9	51.3	3.36	41.7	4.46	1.91	6.22	0.69	0.19	0	0.88	13.47	540
246	M	C	3	540	430	8784	12	431,636	412,636[d]	4.4	30.7	35.1	38.5	6.17	54.9	9.05	1.86	8.66	0.28	0.10	0	0.38	19.95	246
160	M	C	3	540	440	8784	12	------	457,194	-----	-----	-----	-----	4.50	51.7	5.77	1.21	7.09	----	----	----	3.08	17.15	160
101	U	C	3	540	475	8784	12	723,900	670,782	7.3	44.5	52.8	65.1	2.44	42.6	3.16	0.78	4.20	1.88	1.88	0.08	2.29	10.42	101
772	U	B-T	2	500	513	2196	12	153,650	142,730	7.1	6.2	73.7	7.1	3.72	45.7	3.90	0.64	4.90	4.15	0.57	0.46	5.18	14.62	772
501	M	C	3	480	380	8668	11.9	441,408	421,162	4.6	33.4	37.9	41.7	4.71	54.5	6.85	1.94	8.37	0.40	1.04	0.39	1.83	18.99	501
424	M	C	2	480	400	8784	12	602,505	586,935	2.6	36.1	41.8	50.9	3.00	45.0	3.58	1.34	4.37	0.34	0.14	0	0.48	9.77	424
695	M	C	3	450	390	8784	12	436,340	423,414	3.0	29.2	47.8	34.5	4.59	52.5	5.13	0.77	9.63	0.68	0	0	0.62	16.15	695
335	M-W	C	2	430	369	8784	12	502,130	490,130	2.4	38.9	37.1	53.4	3.11	60.0	3.20	0.71	7.13	1.32	0.03	0.03	1.32	13.36	335
247	M-W	C	3	390	275	8784	12	487,960	485,760[d]	0.5	24.7	54.2	39.2	4.55	55.0	5.88	0.81	9.78	0.07	0.12	0.05	0.24	16.69	247
1129	U	C	4	380	341	8784	12	203,450	184,346[d]	9.4	29.0	29.6	38.9	4.09	45.0	7.83	2.48	16.51	1.00	3.68	0.60	5.28	32.10	1129
105	U	C	3	370	275	8784	12	410,220	346,440	15.5	35.9	45.5	41.2	2.35	47.6	3.92	1.01	8.32	0.40	1.75	0.24	2.39	15.64	105
1091	U	C	2	360	300	8784	12	------	326,408[d]	----	----	----	----	1.98	55.0	9.30	0.40	10.85	3.20	0.40	0.46	4.06	24.61	1091
161	I	C	1	360	300	----	12	1,003,500	982,300[d]	2.1	45.7	----	----	3.96	49.6	3.44	0.68	2.49	0.16	0.68	0	0.84	7.45	161
152	U	S--	1	360	---	----	12	6,600	88	98.7	0.3	47.0	0.7	3.90	54.7	0.35[g]	0.06[g]	19.66[g]	5.97[g]	0.91[g]		6.88[g]	19.95[g]	152
688	M	C	3	350	---	8784	12	437,500	432,500[d]	1.1	29.3	42.6	49.8	3.93	30.0	5.32	0.45	8.32	0.12	0.25	0.12	0.49	14.58	688
187	M-W	O	2	350	281	9446	12.8	315,000	297,000	5.7	----	----	----	4.15	47.0	5.02	2.18	11.84	0.88	0.10	0.03	0.95	19.99	187
774	U	B-T	2	345	270	1830	12	81,342	77,122	5.2	5.1	72.8	5.5	3.58	49.7	3.31	1.03	6.57	3.82	1.36	2.97	7.85	18.76	774
857	U	C	2	330	---	8784	12	428,704	379,380	11.5	-----	42.8	51.3	2.80	37.5	4.30	1.57	6.92	1.82	3.97	0.84	6.63	19.42	857
1055	M-W	C	1	320	265	3672	5	233,385	204,875[d]	12.2	----	29.6	100.0	4.50	63.2	5.79	1.49	8.30	0.46	0	0	0.46	16.04	1055
265	M	C	3	320	249	8784	12	245,000	220,000	10.2	25.4	37.9	34.3	7.30	55.5	11.00	1.86	11.37	0.16	0.11	0.34	0.61	24.84	265
27	U	C	2	315	---	----	12	210,470	194,105	7.8	32.0	28.8	39.4	3.63	52.7	7.12	3.05	11.06	0.92	12.13		13.05	34.28	27
382	I	C	2	300	---	4805	12	106,300	99,300[d]	6.6	----	21.2	28.4	3.48	38.5	4.76	0.66	5.08	0.42[i]	0	0	0.42	10.92	382
858	U	C	2	270	215	8784	12	211,100	175,200	17.0	----	26.7	49.7	2.82	35.0	6.46	2.78	17.45	3.31	1.54	0.43	5.28	31.97	858
626	W	C	2	240	190	8784	12	435,300	434,000	0.3	----	63.4	48.5	3.93	47.6	4.16	0.66	11.68	0.09	0.23	0.11	0.43	16.87	626
516	M	C	2	240	188	8784	12	160,600	156,800[d]	2.4	18.3	22.8	49.9	4.12	32.0	6.23	1.01	14.54	0.26	0.15	0	0.41	22.19	516
169	I	C	1	240	200	1834	12	81,890	77,310[d]	5.8	5.8	27.7	20.9	5.04	49.7	6.52	1.25	3.84	0.85	13.92		14.77	26.36	169
984	U	P--	1	225	219	8784	12	28,800	27,290[d]	5.3	1.6	47.1	4.6	4.50	42.0	6.43	0.57	5.22	1.10	0	0	1.10	13.32	984
318	M	C	4	212.5	---	8784	12	144,430	138,700	4.0	29.9	----	----	4.10	53.9	6.81	1.89	15.14	2.78	0.23	0.25	3.26	27.10	318
733	U	S-T	2	175	120	51	12	1,815	1,788[d]	1.5	0.2	62.1	0.3	3.00	43.7	7.92	1.96	18.18	34.30	0.56	20.43	55.29	83.35	733
646	M	S-H	1	120	90	8784	12	7,220	5,832	19.2	1.6	13.4	7.6	5.37	52.0	18.82	5.70	27.14	0	0	0	0	51.66	646

NOTES:

Character of Plant
- U - Private Power Company
- P - Private Pumping Company
- M - Municipal Power Plant
- W - Municipal Pumping Plant
- I - Industrial Power Plant

TYPE OF LOAD
- C - Complete Power
- B - Base Load
- S - Standby
- P - Peak Load
- V - Type Varied During Period
  - T - Supplemented by Transmission Line
  - H - Supplemented by Hydro-Electric Plant
  - Z - Supplemented by Steam Plant

LETTERED NOTES
- a - Plant Shut Down at end of 8th month and Placed on Standby Service
- b - Plant Shut Down for Balance of Period Due to Damage to Electrical Equipment caused by Bursting of Water Main
- c - Does not include Repairs to Electrical Equipment for causes noted in "b"
- d - Estimated by Operator
- e - Attendance Cost Includes no maintenance Time; This is Included under Engine Repairs
- f - Includes Attendance for Gas Engines in Plant
- g - Costs are in dollars per Net K.W. Hr.
- h - Steam Plant is for Emergency Duty only
- i - Does not include Water Cost; which is charged to Boiler Feed
- k - Some of Regular Attendance Payroll is Charged to Engine Repairs
- m - Supplemented by Steam Plant which operated 2736 Hours
- n - Allows for Outside Power Used to Heat Fuel and Lubricating Oil in Engine Idle Time

TABLE II - COMPARATIVE COSTS - 1929, 1930, 1931 AND 1932 REPORTS (PAGE 1)

PLANT NUMBER	YEAR	TOTAL INSTALLED B. H. P.	TOTAL NET OUTPUT K. W. HRS.	ANNUAL PLANT LOAD FACTOR	RUNNING PLANT CAPACITY FACTOR	PLANT SERVICE FACTOR	AVERAGE COST OF FUEL OIL CENTS PER GALLON	COSTS PER NET K.W. HR. - MILLS								YEAR	PLANT NUMBER
								FUEL COST	LUBRICATING OIL COST	ATTENDANCE COST, INCLUDING SUPERINTENDANCE	COST OF SUPPLIES AND MISCELLANEOUS, INCLUDING WATER	COST OF ENGINE REPAIRS	COST OF ALL OTHER PLANT REPAIRS	TOTAL OF ALL SUPPLY, REPAIR, AND MISCELLANEOUS COSTS	TOTAL PRODUCTION COST		
43	1929	11,540	22,591,027	----	69.9	----	4.25	3.82	0.69	0.60	----	----	----	1.04	6.15	1929	43
	1930	11,540	26,221,176	46.1	70.4	57.8	4.37	3.95	0.53	0.94	0.21	0.67	0.05	0.93	6.35	1930	
	1931	11,540	29,849,848	52.5	73.2	65.7	3.78	3.51	0.47	0.70	0.28	0.63	0.29	1.20	5.88	1931	
	1932	15,640	28,374,009	57.1	83.3	46.0	3.48	3.23	0.31	0.86	0.30	0.56	0.14	1.00	5.40	1932	
46	1931	9,250	Operation Greatly Reduced in 1932 because of lack of Load; Records Incomplete														46
82	1930	5,660	7,958,851	31.3	65.0	35.9	5.71	5.22	0.52	3.73	1.38	1.91	1.08	4.37	13.86	1930	82
	1931	5,660	8,778,880	33.2	69.0	39.1	5.13	4.93	0.45	2.94	0.92	1.96	1.22	4.10	12.42	1931	
	1932	8,960	9,065,633	33.0	60.3	40.5	4.48	4.52	0.63	2.81	0.47	1.13	1.57	3.17	11.13	1932	
168	1931	8,500	Operation Greatly Reduced in 1932 because of lack of Load; Records Incomplete														168
52	1929	3,330	5,722,032	31.1	65.3	45.2	5.58	5.38	0.55	3.83	0.88	0.74	0.40	2.02	11.78	1929	52
	1930	4,580	7,257,703	33.5	75.2	45.4	5.70	5.30	0.38	2.83	0.74	0.56	0.48	1.78	10.29	1930	
	1931	4,580	8,417,102	33.7	78.6	40.4	4.83	4.46	0.30	2.55	0.63	0.49	0.38	1.50	8.81	1931	
	1932	7,445	9,110,000	36.3	78.1	43.8	4.41	3.97	0.27	2.35	0.52	0.35	0.14	1.01	7.60	1932	
91	1929	3,450	7,585,725	46.6	52.0	72.8	3.90	3.72	0.48	1.18	0.16	0.22	0.07	0.45	5.83	1929	91
	1930	5,250	8,167,025	53.7	53.1	52.4	4.09	3.95	0.29	1.06	0.16	0.33	0.04	0.53	5.33	1930	
	1931	5,250	7,734,325	48.2	59.3	45.0	3.20	3.03	0.27	1.21	0.26	----	----	0.70	5.21	1931	
	1932	5,250	6,490,050	48.6	58.4	38.4	3.12	2.93	0.36	1.57	0.14	0.12	0.05	0.31	5.17	1932	
73	1930	5,000	8,016,000	37.9	64.0	44.4	1.30	1.34	0.31	2.82	0.01	0.10	0.01	0.12	4.39	1930	73
	1931	5,000	8,341,500	41.9	66.3	45.1	0.95	0.93	0.26	1.03	0.13	0.22	0.05	0.40	3.52	1931	
	1932	5,000	3,030,200	42.0	66.4	43.4	1.22	1.26	0.29	2.01	0.16	0.16	0.02	0.34	3.90	1932	
92	1929	2,500	6,662,389	44.1	71.6	61.6	2.15	2.20	0.55	1.24	0.17	1.85	0.12	2.14	6.13	1929	92
	1930	4,900	10,027,739	58.8	65.0	61.1	2.09	2.25	0.33	0.92	0.26	0.26	0.06	0.58	4.08	1930	
	1931	4,900	9,376,900	52.9	63.5	53.1	2.03	2.12	0.36	1.08	0.20	----	----	0.70	4.26	1931	
	1932	4,900	7,451,947	44.2	66.2	39.3	2.04	2.05	0.28	1.34	0.26	0.54	0.03	0.83	4.50	1932	
129	1931	4,750	Operation Greatly Reduced in 1932 because of lack of Load; Records Incomplete.														129
45	1929	4,250	7,442,350	36.8	72.5	43.6	5.23	5.04	0.09	1.65	0.06	----	----	0.92	7.70	1929	45
	1930	4,250	6,908,500	34.9	69.5	42.4	5.29	5.18	0.09	1.77	0.04	1.01	0.10	1.15	8.20	1930	
	1931	4,250	5,537,000	46.4	66.5	36.6	4.79	4.89	0.09	2.04	0.07	1.28	0.55	1.90	8.92	1931	
	1932	4,250	5,015,575	42.3	62.1	35.8	3.87	4.07	0.11	2.05	0.05	1.33	0.32	1.70	7.93	1932	
54	1930	4,200	22,910,000	94.0	99.9	98.9	2.53	2.16	0.55	1.18	1.16	----	----	1.97	5.86	1930	54
	1931	4,200	22,518,000	92.6	95.6	98.8	1.03	0.91	0.36	1.19	0.38	----	----	1.75	4.21	1931	
	1932[c]	4,200	15,187,500	----	95.1	98.7	1.38	1.24	0.29	1.02	0.54	----	----	1.07	3.62	1932	
864	1931	4,000	Not Operated in 1932 -- Reduced Industrial Activity														864
130	1930	3,600	4,484,700	41.8	54.1	50.7	4.72	4.59	0.89	1.36	0.77	0.82	0.17	1.76	8.60	1930	130
	1931	3,600	4,158,750	42.4	67.0	31.4	4.19	3.93	0.56	1.58	0.71	1.96	0.18	2.85	8.92	1931	
	1932	3,600	4,281,230	44.7	68.6	31.3	4.02	3.83	0.56	1.65	0.47	0.68	0.19	1.34	7.48	1932	
2	1929	3,450	16,479,500	83.2	94.4	84.5	2.71	2.62	0.33	1.40	0.13	----	----	0.47	4.82	1929	2
	1930	3,450	16,077,095	78.8	94.3	77.1	2.18	1.98	0.45	1.14	0.09	1.56	0.09	1.74	5.31	1930	
	1931	3,450	17,745,325	86.5	97.8	89.8	2.11	2.00	0.26	1.09	0.08	1.16	0.09	1.33	4.68	1931	
	1932[b]	3,450	8,839,511	----	97.8	91.2	2.33	2.22	0.24	1.03	0.10	1.11	0.08	1.29	4.78	1932	
164	1930	3,360	14,709,450	81.4	90.7	72.7	3.86	2.91	0.31	1.38	0.16	1.12	0.19	1.47	6.07	1930	164
	1931	3,360	11,037,481	59.5	76.3	76.9	3.34	2.66	0.28	1.73	0.35	1.52	0.30	2.17	6.84	1931	
	1932	3,360	12,838,281	----	80.0	84.9	2.59	2.12	0.27	1.28	0.55	1.37	0.46	2.38	6.05	1932	
3	1929	3,125	2,341,730	32.1	42.2	36.2	4.53	5.95	0.54	5.62	0.47	1.20	0.15	1.82	13.93	1929	3
	1930	3,125	2,357,153	27.8	40.4	32.7	5.00	5.49	0.46	4.71	0.23	1.84	0.03	2.10	12.76	1930	
	1931	3,125	No Reply to Inquiries for 1931													1931	
	1932	3,125	2,321,395	31.6	45.4	28.5	4.60	4.78	0.27	4.54	0.25	0.35	0.01	0.61	10.19	1932	
720	1930	3,080	3,226,050	34.7	52.5	35.7	3.99	5.21	0.94	1.37	0.37	0.26	0.35	0.98	8.50	1930	720
	1931	3,080	3,124,300	34.1	----	----	3.07	4.42	1.10	1.43	0.22	0.05	0.35	0.62	7.57	1931	
	1932	3,080	2,920,600	34.8	46.8	35.9	2.92	4.45	0.59	1.24	0.07	0.20	0.01	0.28	6.56	1932	
109	1930[c]	1,800	885,399	----	48.1	16.3	5.53	6.33	1.26	3.78	0.88	0.60	0.11	1.59	12.96	1930	109
	1931	2,925	1,858,860	----	54.1	30.3	5.60	6.29	1.25	2.32	0.27	0.80	0	1.07	10.93	1931	
	1932	2,925	959,606	8.9	49.2	11.5	5.69	6.85	0.64	5.01	0.24	0.75	0.10	1.09	13.59	1932	
7	1929	1,830	3,231,938	36.0	64.8	53.2	5.77	5.31	0.36	3.06	1.34	----	----	3.98	12.71	1929	7
	1930	2,730	3,211,821	38.0	61.8	53.1	4.79	4.52	0.35	3.17	1.19	1.57	0.31	3.07	11.11	1930	
	1931	2,730	3,088,885	43.9	57.3	36.4	3.43	3.08	0.39	3.79	0.68	1.28	0.51	2.47	9.73	1931	
	1932	2,730	3,105,742	42.5	57.9	36.3	3.27	2.78	0.25	3.29	0.42	0.96	0.39	1.77	8.09	1932	
732	1930	2,520	4,848,480	37.4	59.7	61.1	3.65	3.73	0.91	1.61	----	----	----	2.08	8.33	1930	732
	1931	2,520	2,632,385	25.0	49.1	44.1	2.82	3.68	1.14	2.19	0.59	1.33	0.77	2.69	9.70	1931	
	1932	2,520	3,497,637	27.5	50.4	47.4	3.17	3.27	0.73	2.09	0.57	2.48	0.37	3.42	9.51	1932	
978	1931	2,520	2,247,295	----	----	----	3.33	3.11	0.47	1.23	0.42	----	----	0.71	5.52	1931	978
	1932	2,520	2,223,852	14.4	87.6	17.5	3.57	3.11	0.27	1.41	0.35	----	----	0.74	5.53	1932	

TABLE II - COMPARATIVE COSTS - 1929, 1930, 1931 AND 1932 REPORTS (PAGE 2)

PLANT NUMBER	YEAR	TOTAL INSTALLED B.H.P.	TOTAL NET OUTPUT K.W. HRS.	ANNUAL PLANT LOAD FACTOR	RUNNING PLANT CAPACITY FACTOR	PLANT SERVICE FACTOR	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	COSTS PER NET K.W. HR. - MILLS: FUEL COST	LUBRICATING OIL COST	ATTENDANCE COST, INCLUDING SUPERINTENDANCE	COST OF SUPPLIES AND MISCELLANEOUS INCLUDING WATER	COST OF ENGINE REPAIRS	COST OF ALL OTHER PLANT REPAIRS	TOTAL OF ALL SUPPLY, REPAIR, AND MISCELLANEOUS COSTS	TOTAL PRODUCTION COST	YEAR	PLANT NUMBER
93	1929	1,960	2,838,950	27.4	44.8	59.4	4.16	5.25	0.52	2.50	0.15	0.38	0.09	0.62	8.89	1929	93
	1930	1,960	2,659,910	30.9	43.4	58.6	4.09	5.35	0.39	2.65	0.16	0.51	0.02	0.69	9.08	1930	
	1931	1,960	3,403,390	29.8	52.3	60.6	2.79	3.36	0.38	2.14	0.13	----	----	0.44	6.32	1931	
	1932	2,480	4,058,720	34.9	52.0	68.5	3.09	3.78	0.42	1.81	0.10	0.67	0.05	0.82	6.83	1932	
60	1930	2,400	1,658,900	24.1	37.0	33.7	4.62	5.54	0.94	4.81	----	----	----	3.24	14.53	1930	60
	1931	2,400	No Reply to Inquiries for 1931													1931	
	1932	2,400	1,015,200	13.7	24.8	32.3	4.69	7.48	0.73	5.22	0.60	----	----	2.76	16.19	1929	
723	1930	1,320	1,270,520	19.7	68.0	26.3	5.62	6.46	1.15	4.01	0.39	2.37	0.97	3.73	15.35	1930	723
	1931	2,370	1,556,510	----	73.3	----	4.21	4.23	0.95	3.56	0.53	0.86	0.70	2.09	10.83	1931	
	1932	2,370	1,371,460	10.9	67.2	15.4	4.31	4.13	0.74	3.71	0.76	----	----	2.55	11.13	1932	
41	1929	2,370	3,798,810	39.6	----	----	5.51	5.43	0.48	4.11	0.24	0.22	0.07	0.53	10.55	1929	41
	1930	2,370	4,068,290	39.2	59.0	44.2	5.19	5.09	0.48	4.08	0.37	0.63	0.15	1.15	10.80	1930	
	1931	2,370	4,092,730	39.4	67.3	44.2	4.57	4.48	0.51	3.85	0.25	0.24	0.13	0.62	9.46	1931	
	1932	2,370	3,698,090	35.6	65.5	41.0	4.10	3.86	0.62	4.05	0.23	0.26	0.08	0.57	9.10	1932	
79	1930	2,170	3,184,025	42.6	67.3	38.8	3.33	3.12	0.46	4.13	0.08	0.49	0.31	0.88	8.59	1930	79
	1931	2,170	3,204,390	38.6	66.8	39.6	2.62	2.38	0.30	3.31	0.13	0.20	0.13	0.46	6.45	1931	
	1932	2,170	3,280,357	39.3	66.4	40.6	2.49	2.21	0.45	3.53	0.11	0.23	0	0.34	6.53	1932	
5	1929	2,160	319,120	3.7	----	----	4.15	5.45	1.77	11.61	3.56	----	----	17.99	36.82	1929	5
	1930	2,160	1,013,269	8.1	-----	----	4.04	4.86	1.25	5.56	1.14	----	----	8.17	19.84	1930	
	1931	2,160	1,789,653	10.0	----	----	3.33	3.86	0.80	2.15	0.79	----	----	2.18	8.99	1931	
	1932	2,160	2,597,100	21.5	94.4	22.6	3.54	3.90	0.65	1.31	0.53	----	----	1.39	7.25	1932	
80	1931	2,150	No Reply to Inquiries for 1932														80
6	1929	2,100	1,318,898	10.0	----	----	4.70	4.17	0.72	2.67	0.47	----	----	1.61	9.17	1929	6
	1930	2,100	1,576,234	18.8	----	----	4.51	3.93	0.57	2.07	0.40	----	----	2.03	8.60	1930	
	1931	2,100	1,612,957	11.8	----	----	4.12	3.53	0.62	1.89	0.31	----	----	1.13	7.17	1931	
	1932	2,100	1,720,413	11.7	97.4	14.5	3.94	3.40	0.45	1.64	0.25	----	----	1.05	6.54	1932	
68	1931	2,060	3,336,860	59.4	67.5	42.7	3.37	3.30	0.44	1.41	0.11	0.31	0.37	0.79	5.94	1931	68
	1932	2,060	3,038,210	54.8	63.9	40.9	3.60	3.60	0.42	1.54	0.18	0.43	0.08	0.69	6.25	1932	
728	1931	2,040	No Reply to Inquiries for 1932														728
83	1930	1,000	1,512,520	33.6	51.6	53.1	6.75	6.37	0.46	7.34	0.54	1.00	0	1.54	15.71	1930	83
	1931	1,000	1,720,560	33.5	54.4	55.8	6.00	5.71	0.31	6.46	0.81	1.05	0	1.86	14.34	1931	
	1932	2,000	1,687,500	35.1	52.0	----	5.00	4.95	0.45	6.40	1.48	1.72	1.88	5.08	16.88	1932	
215	1930[d]	1,960	1,372,941	----	78.5	17.5	5.40	4.68	0.58	1.12	0.33	0.01	0.10	0.44	6.82	1930	215
	1931	1,960	1,568,700	13.1	89.9	15.5	3.97	3.45	0.21	1.40	0.38	0.53	0.08	0.99	6.05	1931	
	1932	1,960	1,163,370	9.8	84.2	12.3	5.14	3.84	0.29	1.48	0.55	0.07	0	0.62	6.23	1932	
837	1930	1,875	2,016,465	33.2	49.0	38.8	3.07	3.80	0.68	7.39	0.66	3.32	1.12	5.10	16.97	1930	837
	1931	1,875	2,101,374	35.9	51.1	40.2	2.72	3.43	0.65	6.01	0.49	3.36	0.92	4.77	14.86	1931	
	1932	1,875	2,057,699	37.9	48.9	41.2	2.49	3.29	0.80	5.89	0.48	6.63	0.90	8.01	17.99	1932	
997	1931	1,800	Part Time Operation in 1932; Records Incomplete														997
212	1931	1,750	228,700	3.6	69.6	3.2	4.43	4.13	0.51	2.21	0.28	0.09	0	0.37	7.22	1931	212
	1932	1,750	217,147	4.4	71.8	2.9	3.60	3.22	0.30	2.14	0.29	6.40	0	6.69	12.35	1932	
722	1930	1,705	795,450	9.3	82.1	11.2	5.61	5.97	0.69	7.99	1.49	1.19	0.90	3.58	18.23	1930	722
	1931	1,705	826,340	10.1	72.8	13.2	4.26	4.63	0.56	8.48	1.03	0.14	0.44	1.61	15.28	1931	
	1932	1,705	896,220	10.0	62.4	15.7	4.68	5.07	0.63	6.53	0.94	----	----	2.55	14.78	1932	
735	1931	1,680	2,760,680	29.7	77.8	37.2	3.33	4.03	0.49	1.43	0.09	0.52	0.36	0.97	6.92	1931	735
	1932	1,680	3,390,240	36.8	69.7	52.5	3.64	4.01	0.81	0.89	0.22	1.11	0.50	1.83	7.54	1932	
18	1929	1,650	2,351,123	26.4	----	----	4.71	4.52	0.41	2.58	0.38	----	----	2.30	9.81	1929	18
	1930	1,650	2,406,690	27.2	----	----	4.49	4.51	0.61	2.08	0.21	----	----	4.80	12.00	1930	
	1931	1,650	2,406,609	26.0	----	----	3.94	3.93	0.58	1.98	0.41	----	----	2.24	8.73	1931	
	1932	1,650	2,327,071	26.3	62.4	40.0	3.74	3.78	0.51	1.72	0.34	----	----	1.44	7.45	1932	
8	1930	1,560	2,049,000	34.2	57.0	39.1	3.37	3.40	0.58	4.68	0.70	0.27	0	0.97	9.63	1930	8
	1931	1,560	1,876,410	33.4	58.7	35.3	2.81	2.92	0.41	3.61	----	----	----	0.54	7.48	1931	
	1932	1,560	1,627,980	31.4	55.0	32.7	3.04	3.26	0.54	4.85	----	----	----	0.62	9.27	1932	
10	1931	1,500	Intermittent Operation in 1932; Records Incomplete														10
132	1930	1,500	1,446,160	33.9	63.5	29.9	4.64	4.98	0.32	4.51	0.34	0	0	0.34	10.15	1930	132
	1931	1,500	1,655,300	38.5	69.1	31.3	3.63	3.68	0.26	4.30	0.34	0	0	0.34	8.58	1931	
	1932	1,500	1,665,900	36.7	65.7	29.9	3.56	3.31	0.24	4.41	0.33	0.02	0	0.35	8.31	1932	
289	1931	1,465	2,523,740	38.4	71.3	42.7	4.15	3.67	0.51	4.71	0.32	----	----	1.44	10.33	1931	289
	1932	1,465	2,528,017	36.5	71.1	43.9	4.17	3.78	0.43	4.60	0.32	0.12	1.13	1.57	10.38	1932	
865	1931	1,450	Not Operated During 1932; - Reduced Industrial Activity														865
70	1930	1,420	1,980,400	----	----	----	3.68	3.81	0.44	3.84	0.13	0.12	0.05	0.30	8.39	1930	70
	1931	1,420	1,868,725	41.7	62.0	39.4	2.83	3.25	0.46	3.48	0.32	0.85	0.38	1.55	8.74	1931	
	1932	1,420	1,675,057	38.4	54.3	41.5	3.03	3.71	0.53	4.25	0.27	0.53	0	0.80	9.29	1932	
163	1930	1,400	5,125,835	60.4	71.4	82.1	2.44	2.13	0.21	1.12	0.29	----	----	3.44	6.90	1930	163
	1931	1,400	3,793,300	43.6	76.3	63.7	1.92	1.75	0.16	1.60	0.21	----	----	2.16	5.67	1931	
	1932	1,400	127,335	1.7	50.4	3.4	0.97	1.21	0.36	7.30	0.36	5.53	0.58	6.47	15.34	1932	
154	1930	1,400	1,571,594	26.8	----	----	4.48	3.79	0.32	3.95	0.35	----	----	0.71	8.77	1930	154
	1931	1,400	1,608,939	29.3	----	----	3.59	2.94	0.22	4.22	0.44	----	----	1.58	8.96	1931	
	1932	1,400	1,521,613	29.4	81.9	23.0	3.47	2.81	0.29	4.18	0.33	----	----	0.81	8.09	1932	

TABLE II - COMPARATIVE COSTS - 1929, 1930, 1931 AND 1932 REPORTS (PAGE 3)

PLANT NUMBER	YEAR	TOTAL INSTALLED B.H.P.	TOTAL NET OUTPUT K.W. HRS.	ANNUAL PLANT LOAD FACTOR	RUNNING PLANT CAPACITY FACTOR	PLANT SERVICE FACTOR	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	COSTS PER NET K.W. HR. - MILLS: FUEL COST	LUBRICATING OIL COST	ATTENDANCE COST, INCLUDING SUPERINTENDANCE	COST OF SUPPLIES AND MISCELLANEOUS, INCLUDING WATER	COST OF ENGINE REPAIRS	COST OF ALL OTHER PLANT REPAIRS	TOTAL OF ALL SUPPLY, REPAIR, AND MISCELLANEOUS COSTS	TOTAL PRODUCTION COST	YEAR	PLANT NUMBER
11	1931	1,350	Intermittent Operation in 1932; Records Incomplete														11
13	1929	1,225	1,169,971	33.8	55.9	34.1	6.00	7.44	0.57	4.74	1.00	0.89	0.77	2.66	15.41	1929	13
	1930	1,225	1,131,661	32.7	59.2	31.2	5.69	6.60	0.65	4.88	0.54	0.39	0.08	1.01	13.14	1930	
	1931	1,225	1,259,958	38.4	58.3	34.1	5.41	6.29	0.73	4.69	0.24	0.31	0.05	0.60	12.31	1931	
	1932	1,225	1,176,048	36.0	57.4	32.4	5.13	5.94	0.68	4.50	0.48	0.59	0.37	1.44	12.56	1932	
725	1930	1,310	1,976,000	----	----	----	4.40	4.39	0.84	2.58	0.38	0.46	0.20	1.04	8.85	1930	725
	1931	1,310	2,640,671	----	----	----	3.35	3.16	0.58	1.78	0.40	0.21	0.15	0.76	6.28	1931	
	1932	1,200	3,324,653	59.8	74.4	63.8	3.62	3.43	0.81	1.70	0.18	0.24	0.02	0.44	6.38	1932	
451	1931[e]	1,200	833,560	----	----	----	3.25	3.47	0.82	4.02	0.36	0.12	0.27	0.75	9.06	1931	451
	1932	1,200	1,481,990	41.0	46.9	51.0	3.43	3.83	0.52	3.50	0.21	0.11	0.98	1.30	9.15	1932	
333	1931	1,200	606,740	9.1	83.3	10.8	5.40	5.40	1.80	5.00	4.00	2.47	0	6.47	18.67	1931	333
	1932	1,200	650,831	5.2	77.2	12.5	5.50	5.36	0.70	6.66	2.86	0.75	0.02	3.63	16.35	1932	
17	1929	1,200	1,611,876	20.7	----	----	4.52	4.69	0.53	2.64	0.67	----	----	2.11	9.97	1929	17
	1930	1,200	2,148,910	27.5	----	----	4.45	4.23	0.50	2.06	0.36	----	----	1.96	8.75	1930	
	1931	1,200	2,207,300	27.2	----	----	3.97	3.83	0.40	1.82	0.42	----	----	1.89	7.94	1931	
	1932	1,200	2,064,882	24.1	58.3	51.4	3.71	3.67	0.38	1.66	0.38	----	----	1.36	7.07	1932	
94	1931	1,200	Not Operated in 1932, Territory Served by High Line														94
980	1931	1,200	No Reply to Inquiries for 1932														980
616	1930	1,150	1,553,500	37.2	----	----	5.10	4.83	0.85	4.81	----	----	----	0.39	10.88	1930	616
	1931	1,150	1,609,550	38.8	----	----	4.50	4.35	0.76	4.32	----	2.48	----	2.79	12.22	1931	
	1932	1,150	1,565,000	39.0	56.5	44.7	4.51	4.31	0.64	4.04	1.06	1.97	0	3.03	12.02	1932	
95	1929	1,120	1,675,810	26.0	48.0	57.8	3.23	3.76	0.32	3.60	0.32	0.36	0.15	0.83	8.51	1929	95
	1930	1,120	1,408,900	23.3	50.7	45.4	3.12	3.83	0.21	3.54	0.38	0.68	0.02	1.08	8.66	1930	
	1931	1,120	869,940	21.4	51.9	27.4	2.36	2.91	0.23	4.05	0.42	----	----	1.14	8.33	1931	
	1932	1,120	365,350	9.7	84.2	6.9	2.38	2.44	0.09	1.48	0.25	0.03	0	0.28	4.29	1932	
96	1929	1,100	1,133,027	17.0	49.1	37.7	3.61	4.30	0.99	3.87	0.54	4.39	0.19	5.12	14.28	1929	96
	1930	1,100	1,215,181	24.3	61.5	32.2	3.56	3.54	0.66	4.26	0.43	0.78	0.21	1.42	9.88	1930	
	1931	1,100	967,500	19.7	50.9	31.5	2.74	2.95	0.45	5.03	0.20	----	----	1.47	9.90	1931	
	1932	1,100	727,300	17.7	41.2	29.8	2.82	3.51	0.84	5.78	0.32	0.62	0.18	1.12	11.25	1932	
721	1931	1,080	Incomplete Data Furnished For 1932														
78	1928/30[f]	1,060	4,867,305	----	55.5	88.7	5.08	4.92	0.82	2.79	0.08	0.61	0.13	0.82	9.35	1928/30	78
	1931	1,060	1,906,347	31.4	46.5	69.2	5.07	5.88	1.13	4.69	0.23	0.15	0.19	0.57	12.27	1931	
	1932[g]	1,060	1,507,615	----	44.4	59.8	5.15	6.23	0.38	4.50	0.49	----	----	1.00	12.11	1932	
801	1930	1,000	4,110,052	74.3	74.6	94.9	3.82	4.19	0.43	1.25	0.79	0.89	0.17	1.85	7.72	1930	801
	1931	1,000	4,616,205	78.0	84.9	95.8	3.31	3.28	0.30	1.04	1.20	0.28	0.02	1.50	6.12	1931	
	1932	1,000	4,524,387	78.7	85.2	96.2	3.20	3.36	0.27	1.04	0.14	0.30	0.06	0.50	5.17	1932	
738	1931	1,000	1,091,000	21.9	76.3	25.7	3.00	3.47	0.60	3.73	0.46	1.28	0.35	2.09	9.89	1931	738
	1932	1,000	324,600	6.7	82.3	7.3	1.87	1.74	0.59	8.10	1.64	11.29	1.98	14.91	25.34	1932	
1061	1930	980	1,405,473	----	96.7	49.4	4.32	3.22	0.56	0.68	0.10	----	----	0.55	5.01	1930	1061
	1931	980	1,974,459	33.4	81.4	43.7	3.98	3.59	0.56	0.92	0.18	0.63	0.10	0.91	5.98	1931	
	1932	980	2,974,884	50.7	94.5	56.4	3.25	2.95	0.36	0.61	0.14	0.59	0.25	0.98	4.90	1932	
863	1930	1,100	2,136,540	41.0	69.4	52.7	3.55	3.29	0.91	1.76	0.46	2.32	0.06	2.84	8.80	1930	863
	1931	975	2,780,400	59.3	82.7	60.3	3.50	3.13	0.66	1.98	0.19	0.55	0.06	0.80	6.57	1931	
	1932	975	2,950,500	62.6	81.6	64.5	4.01	3.57	0.46	1.60	0.59	0.85	0.19	1.63	7.26	1932	
49	1931	970	Data Not Received for 1932														
98	1929	1,000	1,677,817	----	63.2	----	5.57	7.31	1.05	3.05	0.45	1.68	0.21	2.34	13.75	1929	98
	1930	900	1,774,521	39.9	64.5	56.7	4.73	6.37	0.90	3.28	0.60	1.00	0.31	1.91	12.46	1930	
	1931	1,000	1,352,480	35.4	65.8	38.0	3.44	4.85	0.50	3.67	0.64	----	----	2.42	11.44	1931	
	1932	900	1,500,880	42.8	61.5	48.9	3.74	4.59	0.47	3.04	0.41	0.30	0.09	0.80	8.90	1932	
53	1930	900	2,300,000	50.4	70.6	63.7	3.26	3.68	0.73	2.12	0.43	1.76	0.05	2.24	8.77	1930	53
	1931	900	2,355,470	52.8	71.0	65.2	2.65	3.06	0.53	2.00	0.42	2.94	0.05	3.41	9.00	1931	
	1932	900	1,975,660	44.2	69.0	56.2	2.55	2.90	0.41	2.21	0.41	3.79	0.02	4.22	9.74	1932	
260	1931	900	38,740	1.5	50.6	3.0	5.00	11.17	0.65	6.24	4.44	0	0	4.44	22.50	1931	260
	1932	900	68,389	1.7	47.0	3.6	3.39	5.34	1.42	5.26	0	0.18	0	0.18	12.20	1932	
74	1931	885	Incomplete Data Furnished for 1932 Because of Reduced Force														
189	1930	850	800,000	32.4	27.4	59.5	4.10	5.22	0.93	8.63	1.03	----	----	2.53	17.31	1930	189
	1931	850	951,426	38.4	31.5	64.0	3.68	4.40	0.36	5.99	0.78	----	----	2.44	13.19	1931	
	1932	850	998,200	41.4	32.8	64.1	2.76	3.38	0.82	5.86	0.34	----	----	1.46	11.52	1932	
1056	1930	840	2,122,057	46.5	92.5	50.2	4.10	4.13	0.56	1.61	0.15	----	----	0.37	6.67	1930	1056
	1931	840	1,906,182	41.5	76.2	55.0	3.84	3.70	0.51	1.56	0.50	0.66	0.28	1.44	7.21	1931	
	1932	840	1,655,114	34.0	76.2	47.4	3.12	3.09	0.23	1.80	0.62	0.42	0.24	1.28	6.40	1932	
619	1931	840	828,880	18.1	74.1	23.9	3.72	3.21	0.65	1.66	0.85	1.70	0	2.55	8.07	1931	619
	1932	840	575,200	12.2	76.5	15.5	3.53	3.51	0.37	1.96	1.06	1.55	0.32	2.93	8.77	1932	
494	1931	840	915,865	21.4	76.8	24.7	3.56	3.09	0.34	1.59	0.70	0.61	0.28	1.59	6.61	1931	494
	1932	840	482,220	11.3	74.5	13.4	3.51	3.38	0.54	1.88	0.87	0.60	1.22	2.69	8.49	1932	
153	1930	840	49,340	2.2	----	----	4.08	7.70	1.01	44.30	11.92	----	----	24.43	77.44	1930	153
	1931	840	557,470	12.1	----	----	3.41	3.46	0.61	4.71	0.90	----	----	1.83	10.61	1931	
	1932	840	929,460	19.7	82.7	23.6	3.55	3.18	0.53	2.65	0.78	----	----	1.24	7.60	1932	

TABLE II - COMPARATIVE COSTS - 1929, 1930, 1931 AND 1932 REPORTS (PAGE 4)

PLANT NUMBER	YEAR	TOTAL INSTALLED B.H.P.	TOTAL NET OUTPUT K.W. HRS.	ANNUAL PLANT LOAD FACTOR	RUNNING PLANT CAPACITY FACTOR	PLANT SERVICE FACTOR	AVERAGE COST OF FUEL OIL -CENTS PER GALLON	COSTS PER NET K.W. HR. - MILLS: FUEL COST	LUBRICATING OIL COST	ATTENDANCE COST, INCLUDING SUPERINTENDANCE	COST OF SUPPLIES AND MISCELLANEOUS, INCLUDING WATER	COST OF ENGINE REPAIRS	COST OF ALL OTHER PLANT REPAIRS	TOTAL OF ALL SUPPLY, REPAIR, AND MISCELLANEOUS COSTS	TOTAL PRODUCTION COST	YEAR	PLANT NUMBER
731	1930	825	454,041	9.2	49.2	18.7	5.75	5.96	1.84	9.43	0.37	1.56	0	1.93	19.16	1930	731
	1931	825	592,895	11.8	61.2	20.8	4.84	4.91	1.00	6.58	0.23	0.59	0	0.82	13.31	1931	
	1932	825	554,765	11.1	68.2	17.7	4.00	3.70	1.17	7.50	1.20	1.63	0.09	2.92	15.29	1932	
648	1931	800	1,180,517	32.1	80.9	31.7	3.53	3.23	0.38	2.97	0.76	0.02	0.06	0.84	7.42	1931	648
	1932	800	1,068,900	31.3	70.2	33.2	3.23	3.12	0.39	3.13	0.40	0.46	0.11	0.97	7.61	1932	
112	1930	740	1,165,300	29.7	68.1	42.2	4.43	5.19	0.83	5.46	0.19	0.54	0.12	0.85	12.33	1930	112
	1931	740	1,195,128	34.8	71.3	41.8	3.42	3.47	0.74	5.38	0.18	0.35	0.25	0.78	10.37	1931	
	1932	740	1,443,130	41.9	75.8	46.7	3.52	3.57	0.64	4.19	0.23	0.06	0.04	0.33	8.73	1932	
100	1931	740	Not Operated in 1932, Territory Served by High Line														100
718	1930[d]	720	604,312	----	36.9	51.5	4.27	6.05	1.33	6.50	0.83	1.70	0.58	3.11	16.99	1930	718
	1931	720	691,477	38.6	34.9	51.4	3.45	4.66	1.33	5.04	0.68	6.28	0.14	7.10	18.13	1931	
	1932	720	644,337	51.0	33.0	51.2	3.61	4.98	1.02	5.39	0.64	1.05	0.77	2.46	13.85	1932	
527	1930[d]	720	673,300	----	37.0	56.2	3.87	5.02	1.59	3.97	0.25	0.04	0.04	0.33	10.91	1930	527
	1931	720	933,200	31.9	41.4	60.5	2.83	3.35	0.82	3.48	0.29	0.13	0.01	0.43	8.08	1931	
	1932	720	967,000	31.1	39.6	59.2	3.10	3.52	0.81	5.08	0.24	0.25	0.03	0.52	9.93	1932	
170	1930	720	860,110	19.5	64.7	32.7	6.51	7.28	0.89	2.50	0.12	1.30	0	1.42	12.09	1930	170
	1931	720	835,219	22.4	64.5	31.6	6.20	6.78	0.78	2.19	0.20	2.64	0	2.84	12.59	1931	
	1932	720	675,376	17.4	58.2	28.5	5.53	6.01	0.84	2.71	0.22	----	----	1.63	11.19	1932	
67	1929	720	1,163,600	64.0	79.1	33.7	5.94	6.03	0.55	1.60	0.21	0.04	0	0.25	8.43	1929	67
	1930	720	1,098,900	58.4	82.9	30.3	4.97	4.73	0.71	1.70	0.23	1.03	0.02	1.28	8.42	1930	
	1931	720	891,200	48.5	82.3	25.6	4.58	4.38	0.87	2.09	0.24	1.05	0.10	1.39	8.73	1931	
	1932	720	810,190	44.0	81.5	23.4	4.47	4.39	0.94	2.30	0.30	1.04	0.12	1.46	9.09	1932	
19	1929	700	603,260	29.8	----	----	4.50	6.32	1.40	5.40	1.07	----	----	2.24	15.36	1929	19
	1930	700	710,280	34.9	----	----	4.13	5.72	1.26	4.96	1.07	----	----	4.05	15.99	1930	
	1931	700	694,060	34.8	----	----	3.73	5.27	1.47	5.15	0.80	----	----	5.59	17.48	1931	
	1932	700	612,980	36.7	48.5	33.1	3.63	4.87	1.35	4.96	1.01	----	----	1.68	12.86	1932	
368	1931	700	No Reply to Inquiries for 1932														
106	1929	600	750,419	----	----	----	4.66	4.75	0.66	2.66	0.61	----	----	2.62	10.69	1929	106
	1930	600	1,435,434	35.6	----	----	4.49	4.18	0.27	3.09	0.65	----	----	2.52	10.06	1930	
	1931	600	1,504,859	28.1	----	----	3.97	3.71	0.24	3.05	0.68	----	----	1.76	8.76	1931	
	1932	600	1,358,285	31.5	71.4	55.8	3.77	3.57	0.27	3.07	0.74	----	----	2.07	8.98	1932	
1096	1931	600	726,486	20.8	74.0	29.3	3.68	3.13	0.50	4.46	0.76	0.48	0.41	1.65	9.74	1931	1096
	1932	600	708,626	19.7	69.9	29.3	3.88	3.39	0.50	2.09	0.65	1.45	0.27	2.37	8.35	1932	
1094	1931	600	678,530	19.5	78.5	25.3	3.84	3.43	0.27	2.65	0.91	1.80	0.37	3.08	9.43	1931	1094
	1932	600	572,600	17.2	78.0	22.4	3.79	3.78	0.35	1.52	1.24	0.37	0.50	2.11	7.76	1932	
61	1930	600	1,539,900	----	52.3	79.6	6.39	5.31	0.59	5.53	0.33	0.61	0.06	1.00	12.43	1930	61
	1931	600	1,555,200	38.7	68.4	64.7	4.20	3.46	0.36	5.37	0.11	1.07	0	1.18	10.37	1931	
	1932	600	1,380,330	37.9	64.3	60.7	4.63	3.97	0.38	5.76	0.04	1.02	0.03	1.09	11.20	1932	
103	1929	590	772,985	40.8	53.3	67.8	4.63	6.04	0.99	5.82	0.56	0.85	0.28	1.69	14.54	1929	103
	1930	590	995,145	38.0	60.2	61.2	4.20	5.43	0.93	4.60	0.49	1.73	0.43	2.65	13.61	1930	
	1931	590	1,015,336	34.5	58.3	52.4	3.31	4.63	0.67	4.24	0.69	----	----	2.03	11.57	1931	
	1932	590	842,314	40.5	51.4	49.7	3.94	6.42	0.71	5.13	0.50	1.00	0.25	1.75	14.01	1932	
862	1930	588	627,820	25.3	47.7	39.7	4.43	4.62	0.83	8.84	0.42	1.63	1.88	3.93	18.22	1930	862
	1931	588	640,360	25.7	46.9	41.7	3.27	3.81	0.70	10.77	0.40	1.24	0.97	2.61	17.89	1931	
	1932	588	609,820	31.2	47.9	38.6	3.14	3.87	0.75	8.69	0.47	1.71	0.48	2.66	15.97	1932	
102	1929	480	577,920	24.7	39.8	58.1	3.41	5.22	1.61	8.51	0.57	0.56	0.30	1.43	16.77	1929	102
	1930	580	591,620	27.4	43.7	55.1	3.25	4.78	1.36	8.32	0.34	0.28	0.35	0.97	15.43	1930	
	1931	580	592,210	26.0	50.1	38.8	2.49	3.75	1.06	7.63	0.21	----	----	0.67	13.11	1931	
	1932	580	122,230	9.9	44.2	9.2	2.31	3.56	1.08	7.04	0.29	0.10	0.11	0.50	12.18	1932	
540	1931	540	713,333	32.9	----	----	3.30	4.10	1.72	5.52	0.35	0.38	0.06	0.79	12.13	1931	540
	1932	540	633,751	28.2	40.9	51.3	3.36	4.46	1.91	6.22	0.69	0.19	0	0.88	13.47	1932	
246	1930	540	364,500	28.8	----	----	6.47	11.42	2.69	9.80	0.69	0.14	0	0.83	24.74	1930	246
	1931	540	407,085	33.6	38.0	35.4	6.29	9.15	2.19	8.78	0.41	0.35	0	0.76	20.88	1931	
	1932	540	412,636	30.7	35.1	38.5	6.17	9.05	1.86	8.66	0.28	0.10	0	0.38	19.95	1932	
101	1929	540	666,871	36.5	53.7	40.3	3.56	4.85	1.43	6.39	0.83	2.67	0.57	4.07	16.74	1929	101
	1930	540	768,521	49.1	60.5	40.6	3.79	4.56	0.90	5.62	0.35	0.74	0.03	1.12	12.20	1930	
	1931	540	706,879	48.3	55.7	43.0	2.34	3.11	1.01	4.34	0.34	----	----	1.03	9.49	1931	
	1932	540	670,782	44.5	52.8	43.1	2.44	3.15	0.78	4.20	0.33	1.88	0.08	2.29	10.42	1932	
772	1931	500	222,100	9.5	74.5	10.7	3.72	3.67	0.68	9.55	3.41	3.67	0.56	7.64	21.54	1931	772
	1932	500	142,730	6.2	73.7	7.1	3.72	3.90	0.64	4.90	4.15	0.57	0.46	5.18	14.62	1932	
501	1930	480	403,022	32.5	40.6	37.5	5.50	7.58	1.80	10.58	0.40	0.14	0.31	0.85	20.81	1930	501
	1931	480	452,970	37.3	39.3	42.6	3.93	5.53	1.60	8.50	0.49	0.62	0.33	1.44	17.07	1931	
	1932	480	421,162	33.4	37.9	41.7	4.71	6.85	1.94	8.37	0.40	1.04	0.39	1.83	18.99	1932	
615	1931	440	Incomplete Data Furnished for 1932														615
931	1931	440	Reported "No Data" for 1932														931
335	1930	430	432,940	38.5	33.2	57.0	4.85	5.45	0.57	11.01	1.25	0.19	0.07	1.51	18.54	1930	335
	1931	430	489,446	39.1	37.2	53.6	3.82	4.03	0.64	9.74	4.06	0.40	0.05	4.51	18.92	1931	
	1932	430	490,130	38.9	37.1	53.4	3.11	3.20	0.71	7.15	1.26	0.03	0.03	1.32	12.38	1932	
24	1931	400	No Reply to Inquiries for 1932														24

TABLE II - COMPARATIVE COSTS - 1929, 1930, 1931 AND 1932 REPORTS (PAGE 5)

PLANT NUMBER	YEAR	TOTAL INSTALLED B.H.P.	TOTAL NET OUTPUT K.W. HRS.	ANNUAL PLANT LOAD FACTOR	RUNNING PLANT CAPACITY FACTOR	PLANT SERVICE FACTOR	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	COSTS PER NET K.W. HR. - MILLS: FUEL COST	LUBRICATING OIL COST	ATTENDANCE COST, INCLUDING SUPERINTENDANCE	COST OF SUPPLIES AND MISCELLANEOUS, INCLUDING WATER	COST OF ENGINE REPAIRS	COST OF ALL OTHER PLANT REPAIRS	TOTAL OF ALL SUPPLY, REPAIR, AND MISCELLANEOUS COSTS	TOTAL PRODUCTION COST	YEAR	PLANT NUMBER
194	1931	400	No Reply to Inquiries for 1932														194
247	1930	390	428,290	28.9	----	----	6.00	8.12	1.10	10.79	0.11	0	0	0.11	20.12	1930	247
	1931	390	480,204	25.1	44.6	47.1	4.62	6.03	1.01	9.62	0.05	0.40	0.26	0.71	17.37	1931	
	1932	390	485,760	24.7	54.2	39.2	4.55	5.88	0.81	9.76	0.07	0.12	0.05	0.24	16.69	1932	
105	1929[d]	370	272,138	----	51.7	----	3.20	5.97	3.69	14.60	1.76	6.59	0.90	9.25	33.51	1929	105
	1930	370	372,330	33.4	56.5	35.7	3.14	4.77	1.09	11.00	0.97	0.44	-0.17	1.58	18.44	1930	
	1931	370	349,820	33.1	47.4	39.2	2.67	4.25	1.01	8.66	0.38	----	----	1.35	15.27	1931	
	1932	370	346,440	35.9	45.5	41.2	2.35	3.92	1.01	8.32	0.40	1.75	0.24	2.39	15.64	1932	
1091	1931	360	349,169	33.6	36.2	49.8	5.33	8.11	1.50	12.02	2.10	----	----	2.79	24.42	1931	1091
	1932	360	326,408	----	----	----	1.98	9.30	0.40	10.85	3.20	0.40	0.46	4.06	24.61	1932	
161	1931	360	981,240	44.8	95.4	49.5	5.33	4.45	0.76	2.72	0.22	0.10	0	0.32	8.25	1931	161
	1932	360	982,300	45.7	----	----	3.96	3.44	0.68	2.49	0.16	0.68	0	0.84	7.45	1932	
152	1930	360	25,948	2.2	----	----	5.35	6.55	0.69	81.00	12.28	----	----	22.28	110.52	1930	152
	1931	360	52,080	4.2	----	----	4.75	5.47	0.79	32.57	4.80	----	----	12.21	51.04	1931	
	1932	360	88	0.3	47.0	0.7	3.90	$0.35	$0.06	$12.66	$5.97	----	----	$6.88	$19.95	1932	
688	1931	350	437,000	----	----	----	5.00	6.69	0.65	6.86	0.51	0.17	0.69	1.37	15.57	1931	688
	1932	350	432,500	29.3	42.6	49.8	3.93	5.32	0.45	8.32	0.12	0.25	0.12	0.49	14.58	1932	
365	1931	345	Data Not Received for 1932														365
774	1931	345	109,735	7.2	66.2	8.4	3.79	4.74	0.71	9.97	3.03	6.09	1.07	10.19	25.61	1931	774
	1932	345	77,122	5.1	72.6	5.5	3.58	3.31	1.03	6.57	3.52	1.36	2.97	7.85	18.76	1932	
857	1930	330	307,163	44.3	----	----	3.39	5.91	2.06	11.50	1.75	1.22	0.84	3.81	23.28	1930	857
	1931	330	No Reply to Inquiries for 1931													1931	
	1932	330	379,380	----	42.8	51.3	2.80	4.30	1.57	6.92	1.82	3.97	0.84	6.63	19.42	1932	
265	1930	180	184,000	----	----	----	9.14	13.48	1.76	13.58	1.10	0.71	0	1.81	30.63	1930	265
	1931	320	216,000	----	----	37.0	7.79	11.81	1.83	11.57	0.32	0.46	0.58	1.36	26.57	1931	
	1932	320	220,000	25.4	37.9	34.3	7.30	11.00	1.86	11.37	0.16	0.11	0.34	0.61	24.84	1932	
27	1930	315	190,375	30.1	----	----	4.93	9.00	2.42	12.68	0.77	----	----	6.68	30.78	1930	27
	1931	315	208,890	30.8	----	----	4.06	7.72	1.52	10.58	0.95	----	----	7.29	27.16	1931	
	1932	315	194,105	32.0	28.8	39.4	3.63	7.12	3.05	11.06	0.92	----	----	13.05	34.28	1932	
382	1931[a]	300	86,887	----	20.5	37.4	3.35	3.62	0.82	4.47	0.43	0	0	0.43	9.34	1931	382
	1932	300	99,300	----	21.2	28.4	3.48	4.76	0.66	5.08	0.42	0	0	0.42	10.92	1932	
1129	1931	300	195,850	30.4	29.7	40.7	4.02	7.69	2.38	16.28	0.92	5.52	0.83	7.27	33.62	1931	1129
	1932	380	184,346	29.0	29.6	38.9	4.09	7.83	2.48	16.51	1.00	3.68	0.60	5.28	32.10	1932	
858	1930	180	123,538	23.0	----	----	3.41	6.87	3.26	31.90	4.02	4.66	2.08	10.76	52.79	1930	858
	1931	180	No Replies to Inquiries for 1931													1931	
	1932	270	175,200	----	26.7	49.7	2.82	6.46	2.78	17.45	3.31	1.54	0.43	5.28	31.97	1932	
156	1931	270	Incomplete Data Furnished for 1932														
1097	1931	270	No Reply to Inquiries for 1932														
516	1931	240	185,000	----	----	----	4.30	7.21	1.37	13.12	0.38	0	0	0.38	22.08	1931	516
	1932	240	156,800	18.3	22.8	49.9	4.12	6.23	1.01	14.54	0.26	0.15	0	0.41	22.19	1932	
169	1930	240	151,850	11.3	41.5	27.1	5.98	6.23	0.94	2.56	0.55	0.51	0	1.06	10.79	1930	169
	1931	240	184,360	13.7	42.5	31.9	5.56	6.23	0.89	2.11	0.87	4.39	0	5.26	14.49	1931	
	1932	240	77,310	5.8	27.7	20.9	5.04	6.52	1.25	3.84	0.85	----	----	14.77	26.38	1932	
222	1931	180	Incomplete Data Furnished for 1932														
733	1930	175	14,800	1.6	65.0	1.6	4.82	5.54	2.91	8.92	2.91	0	0	2.91	20.28	1930	733
	1931	175	3,293	0.3	62.5	0.5	5.78	10.93	0.91	10.93	9.72	0	0	9.72	32.49	1931	
	1932	175	1,788	0.2	62.1	0.3	3.00	7.92	1.96	18.18	34.30	0.56	20.43	55.29	83.35	1932	
646	1930	120	15,893	3.8	13.7	7.0	7.00	12.65	3.15	147.25	11.26	0	0	11.26	174.31	1930	646
	1931	120	21,035	5.3	16.1	20.4	7.00	16.70	2.57	16.97	3.28	0	0	3.28	39.52	1931	
	1932	120	5,832	1.6	13.4	7.6	5.37	18.82	5.70	27.14	0	0	0	0	51.66	1932	
201	1931	100	Reported "No Data" For 1932														201

NOTES:
a - 8 months
b - 8.1 "
c - 13 "
d - 10 "
e - 7.5 "
f - 36 "
g - 11 "

TABLE III - INFORMATION COVERING LUBRICATING OIL (PAGE 1)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	TRUNK PISTON OR CROSSHEAD?	CYLINDERS OPEN OR CLOSED TO CRANKCASE?	RATED B. H. P.	EQUIVALENT K. W. - 90% GENERATOR EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R. P. M.	GENERATOR RATING - K. V. A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	RATED HORSEPOWER HOURS IN REPORTED PERIOD	TOTAL GALLONS OF NEW LUBRICATING OIL USED	GALLONS OF NEW LUBRICATING OIL FOR CYLINDER LUBRICATION ONLY	GALLONS OF UNFIT LUBRICATING OIL DISCARDED	RATED H. P. HRS. PER GALLON OF NEW LUBRICATING OIL	RUNNING ENGINE CAPACITY FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	GROSS OUTPUT - K.W. HRS	GROSS K.W. HRS. PER GALLON OF NEW LUBRICATING OIL	LUBRICATING OIL TREATMENT (SEE NOTES)	AVERAGE COST OF LUBRICATING OIL - CENTS PER GALLON
43	1	4	A	-	TP	O	500	336	3	22	29.5	150	375	1915	293	146,500	242	50	---	605	68.9		67,792	280		
	2	4	A	-	TP	O	500	336	3	22	29.5	150	375	1916	284	142,000	237	41	---	600	71.8		68,472	289		
	3	4	A	-	CH	C	1,000	671	6	20.5	36	150	925	1922	676	676,000	773	390	---	875	65.2		296,550	384	CC	
	4	4	A	-	CH	C	1,000	671	6	20.5	36	150	925	1925	109	109,000	182	45	---	600	68.7		50,280	276	&	
	5	4	A	-	TP	O	520	349	4	19	24.5	200	500	1919	471	244,920	282	47	---	870	76.7		126,210	448	S	
	6	4	A	-	TP	O	520	349	4	19	24.5	200	500	1920	423	219,960	487	59	---	450	78.6		116,310	239	&	
	7	2	A	P	CH	O	3,750	2,517	6	30	42	124	3,750	1928	2,569	9,633,750	4,700	1,973	---	2,050	101.4		6,559,500[b]	1,396	C	
	8	2	A	M	B	CH	O	3,750	2,517	6	30	42	124	3,750	1929	6,889	25,833,750	8,454	3,400	---	3,055	83.0		14,407,200[b]	1,704		
	9	2	A	M	B	CH	O	4,100	2,753	6	30	42	124	3,750	1932[a]	4,972	20,385,200	7,705	3,005	---	2,645	76.2		10,423,800[b]	1,353		
	Plant							15,640	10,499					14,850			57,391,080	23,062	9,010	---	2,490		83.3	32,116,114	1,392		37.7
82	1	4	A	-	TP	O	360	242	4	16.25	21	225	312	1921	1,841	662,760	-------	-----	---	-----	64.8		288,440	-----		
	2	2	A	P	CH	O	750	504	4	17	27	180	740	1923	2,249	1,686,750	-------	-----	---	-----	50.7		573,830	-----		
	3	2	A	P	CH	O	750	504	4	17	27	180	740	1924	1,771	1,328,250	-------	-----	---	-----	49.6		442,440	-----		
	4	2	A	P	CH	O	1,150	772	6	17	27	180	1,000	1927	3,434	3,949,100	-------	-----	---	-----	60.1		1,593,100	-----	BC	
	5	2	A	P	CH	O	1,150	772	6	17	27	180	1,000	1927	3,698	4,252,700	-------	-----	---	-----	60.1		1,716,210	-----		
	6	2	A	P	CH	O	1,500	1,007	8	17	27	180	1,350	1929	6,168	9,252,000	-------	-----	---	-----	69.4		4,315,500	-----		
	7	2	M	B	TP	O	3,300	2,216	10	19.5	27	240	2,960	1932[c]	653	2,154,900	-------	-----	---	-----	34.3		496,900[b]	-----		
	Plant							8,960	6,017					8,102			23,286,460	8,544	4,804	---	2,725		60.3	9,426,420[b]	1,103		66.3
52	1	4	A	-	CH	C	830	557	4	23	32	164	700	1928	3,507	2,910,810	609	331	---	4,780	70.4		1,374,500	2,257		
	2	4	A	-	CH	C	1,250	840	6	23	32	164	1,060	1928	4,569	5,711,250	1,155	657	---	4,945	80.1		3,074,600	2,662	BC	
	3	4	A	-	CH	C	1,250	840	6	23	32	164	1,060	1928	4,561	5,701,250	1,177	680	---	4,844	80.3		3,078,300	2,615	&	
	4	4	A	-	CH	C	1,250	840	6	23	32	164	1,060	1930	2,657	3,321,250	628	366	---	5,289	77.5		1,731,100	2,757	S	
	5	4	A	-	CH	C	2,865	1,924	8	29	48	120	2,600	1933[d]	20	57,300	22	19	---	2,605	59.0		22,700	1,032		
	Plant							7,445	5,001					6,380			17,701,860	3,591	2,053	---	4,930		78.1	9,281,200	2,583		69.6
91	1	4	M	-	TP	O	600	403	6	17	24	225	500	1927	2,374	1,424,400	-----	-----	---	-----	56.9		544,000	-----		
	2	4	M	-	TP	O	600	403	6	17	24	225	500	1927	3,690	2,214,000	-----	-----	---	-----	61.8		920,100	-----		
	3	4	M	-	TP	O	1,125	755	6	22	30	180	1,000	1927	4,356	4,900,500	-----	-----	---	-----	54.1		1,778,500	-----	CC	
	4	4	M	-	TP	O	1,125	755	6	22	30	180	1,000	1928	3,172	3,568,500	-----	-----	---	-----	56.0		1,342,500	-----		
	5	4	A	-	TP	O	1,800	1,208	6	24	32	225	1,595	1930	3,120	5,616,000	-------	-----	---	-----	62.6		2,357,000	-----		
	Plant							5,250	3,524					4,695			17,723,400	5,529	-----	---	3,205		58.4	6,942,100	1,256		41.8
73	1	2	A	P	CH	O	1,250	840	5	20.75	26	180	1,063	1928	5,261	6,576,250	1,325	376	0	4,963	65.1		2,875,700	2,170		
	2	2	A	P	CH	O	1,250	840	5	20.75	26	180	1,063	1928	5,614	7,017,500	1,337	350	0	5,249	66.6		3,140,500	2,349	CC	
	3	2	A	P	CH	O	1,250	840	5	20.75	26	180	1,063	1924	2,444	3,055,000	707	167	0	4,321	66.1		1,356,900	1,919	&	
	4	2	A	P	CH	O	1,250	840	5	20.75	26	180	1,063	1926	1,938	2,422,500	607	168	0	3,991	69.8		1,136,400	1,872	F	
	Plant							5,000	3,360					4,252			19,071,250	3,976	1,061	0	4,795		66.4	8,509,500	2,140		58.4
92	1	2	A	P	CH	O	2,400	1,612	8	21	24	225	2,000	1930	3,170	7,608,000	-----	-----	---	-----	64.5		3,295,000	-----	BC	
	2	2	A	P	CH	O	1,250	840	5	20.75	26	180	1,125	1928	2,580	3,225,000	-----	-----	---	-----	65.0		1,408,600	-----	&	
	3	2	A	P	CH	O	1,250	840	5	20.75	26	180	1,125	1928	4,883	6,103,750	-----	-----	---	-----	74.4		3,053,600	-----	S	
	Plant							4,900	3,292					4,250			16,936,750	4,421	-----	---	3,830		68.2	7,757,200	1,755		47.9
46	1	4	A	-	TP	O	600	403	6	16.5	24	200	500	1923	1,081	648,600	212	210	0	3,059	43.4		168,900	891	BC, C&F	
	2	4	A	-	TP	O	600	403	6	16.5	24	200	500	1923	449	269,400	152	108	50	1,694	47.6		86,075	541	BC, C&F	
	3	4	A	-	CH	C	750	504	4	23	32	150	625	1923	1,446	1,084,500	157	105	50	6,908	54.0		393,000	2,503	BC, C&F	
	4	4	A	-	CH	C	1,150	772	6	23	32	150	1,000	1926	5,600	6,440,000	513	408	100	12,554	64.3		2,780,425	5,420	BC & C	
	5	4	A	-	CH	C	1,150	772	6	23	32	150	1,000	1926	4,295	4,939,250	427	324	100	11,567	64.2		2,128,975	4,986	BC & C	
	Plant							4,250	2,854					3,625			13,381,750	1,468	1,155	300	9,116		62.1	5,577,375	3,799		36.3
54	1	4	A	-	TP	O	600	403	6	17	25	200	450		-----	---------	------	-----	---	-----	----		-------	-----		
	2	4	A	-	TP	O	600	403	6	17	25	200	450		-----	---------	------	-----	---	-----	----		-------	-----		
	3	4	A	-	TP	O	600	403	6	17	25	200	450	1925	-----	---------	------	-----	---	-----	----		-------	-----		
	4	4	A	-	TP	O	600	403	6	17	25	200	450	&	-----	---------	------	-----	---	-----	----		-------	-----		
	5	4	A	-	TP	O	600	403	6	17	25	200	450	1926	-----	---------	------	-----	---	-----	----		-------	-----	CC	
	6	4	A	-	TP	O	600	403	6	17	25	200	450		-----	---------	------	-----	---	-----	----		-------	-----		
	7	4	A	-	TP	O	600	403	6	17	25	200	450		-----	---------	------	-----	---	-----	----		-------	-----		
	Plant							4,200	2,821					3,150		40,464	24,278,400	14,489	-----	---	1,678		95.1	15,507,500	1,070		30.0
130	1	4	A	-	TP	O	600	403	6	16.25	23	225	513	1924	4,720	2,832,000	725	206	0	3,900	68.8		1,309,700	1,805		
	2	4	A	-	TP	O	600	403	6	17	24	200	513	1926	3,242	1,945,200	937	163	0	2,075	65.2		851,100	908	CC	
	3	4	A	-	TP	O	1,200	806	6	20	24	300	1,062	1929	2,168	2,601,600	1,830	169	0	1,422	69.4		1,211,700	662	&	
	4	4	A	-	TP	O	1,200	806	6	20	24	300	1,062	1930	2,094	2,512,800	994	262	0	2,528	70.2		1,184,300	1,191	BC	
	Plant							3,600	2,418					3,150			9,891,600	4,486	799	0	2,203		68.6	4,556,800	1,015		62.9
157	1	2	A	P	CH	O	1,760	1,182	8	17	23	257	1,500	1930	2,063	3,630,880	1,031	476	←-	3,522	82.0		2,000,000	1,940	S & F	
	2	2	A	P	CH	O	1,760	1,182	8	17	23	257	1,500	1930	2,497	4,394,720	1,256	576	←-	3,499	82.5		2,438,850	1,942		
	Plant							3,520	2,364					3,000			8,025,600	2,287	1,052	←-	3,509		82.3	4,438,850	1,941		46.8
2	1	4	A	-	TP	O	1,150	772	6	23	29.5	166.7	1,000	1925	3,743	4,304,450	-----	-------	0	-----	98.0		2,827,090	-----	CC	
	2	4	A	-	TP	O	1,150	772	6	23	29.5	166.7	1,000	1925	3,954	4,547,100	-----	-------	0	-----	97.9		2,989,580	-----	&	
	3	4	A	-	TP	O	1,150	772	6	23	29.5	166.7	1,000	1925	4,091	4,704,650	-----	-------	0	-----	97.7		3,084,590	-----	S	
	Plant							3,450	2,316					3,000			13,556,200	7,939	2,925	0	1,720		97.8	8,901,260	1,120		27.2
164	1	4	M	-	TP	O	840	564	6	19.5	24	214	1,000	1926	7,259	6,097,560	-----	-----	200	-----	81.0		3,314,100	-----		
	2	4	M	-	TP	O	840	564	6	19.5	24	214	1,000	1926	7,289	6,122,760	-----	-----	200	-----	74.4		3,058,300	-----	BC	
	3	4	M	-	TP	O	840	564	6	19.5	24	214	1,000	1926	7,537	6,331,080	-----	-----	100	-----	81.5		3,462,800	-----		
	4	4	M	-	TP	O	840	564	6	19.5	24	214	1,000	1926	7,737	6,499,080	-----	-----	100	-----	83.2		3,628,400	-----		
	Plant							3,360	2,256					4,000			25,050,480	13,302	-----	600	1,883		80.0	13,463,600	1,012		25.2
3	1	4	M	-	TP	O	400	269	6	14.5	18	277	344	1923	651	260,400	-------	-----	---	-----	----		----------	-----		
	2	4	A	-	TP	O	800	537	8	17	24	200	675	1924	4,869	3,895,200	-------	-----	---	-----	----		----------	-----	C & F	
	3	4	A	-	TP	O	800	537	8	17	24	200	675	1926	3,475	2,780,000	-------	-----	---	-----	----		----------	-----		
	4	4	M	-	TP	O	1,125	755	6	22	30	180	938	1927	786	884,250	-------	-----	---	-----	----		----------	-----		
	Plant							3,125	2,098					2,632			7,819,850	1,596	-----	---	4.900		45.4	2,384,995	1,494		38.9
720	1	2	M	P	TP	O	840	564	6	16	20	257	700	1928	3,338	2,803,920	1,200	-----	100	2,337	53.1		1,000,500	834		
	2	2	M	P	TP	O	840	564	6	16	20	257	700	1928	4,207	3,533,880	1,400	-----	125	2,420	57.0		878,300	602	BC,	
—	3	2	M	P	TP	O	720	484	6	16	20	257	600	1927	3,478	2,504,160	1,300	-----	125	1,926	51.3		662,900	664	CC &	
	4	4	M	-	TP	O	300	202	3	17.75	22	225	250	1926	2,700	810,000	365	-----	75	2,219	53.8		293,400	804	S	
	5	4	M	-	TP	O	380[e]	255	2	22.5	36	150	250	1922	162	61,560	15	-----	10	4,100	43.6		18,000	1,200		
	Plant							3,080	2,069					2,500			9,713,520	4,340	-----	435	2,237		46.8	3,053,100	703		40.0
77	1	2	M	B	TP	C	3,000	2,014	10	19.5	27	240	2,812	1931	6,046	18,138,000	7,138	4,484	---	2,540	42.8		42.8	5,208,800[b]	730	CC & F	30.2
109	1	2	A	P	CH	O	675	453	4	16.75	22	240	500	1927	1,480	998,000	311	106	---	3,212	44.3			297,800	958		
	2	2	A	P	CH	O	1,125	755	8	14.875	21	257	975	1929	1,105	1,243,125	516	293	---	2,409	47.8			399,360	774	F	
	3	2	A	P	CH	O	1,125	755	8	14.875	21	257	975	1931	631	709,875	200	178	---	3,549	57.9			275,960	1,380		
	Plant							2,925	1,963					2,450			2.952.000	1.027	577	200	2.880		49.2	973.120	948		60.0
7	1	4	M	-	TP	O	350[f]	235	6	11.5	16	277	375	1925	1,875	656,250	-------	-----	---	-----	58.8			259,100	-----		
	2	4	M	-	TP	O	350[f]	235	6	11.5	16	277	375	1925	1,382	478,200	-------	-----	---	-----	54.8			174,000	-----		
	3	4	M	-	TP	O	350[f]	235	6	11.5	16	277	375	1925	1,885	659,750	-------	-----	---	-----	58.9			260,800	-----		
	4	4	M	-	TP	O	750	504	6	16	22	240	750	1927	4,205	3,153,750	-------	-----	---	-----	53.7			1,137,200	-----	CC	
	5	4	M	-	TP	O	930	624	6	18	22	257	750	1930	4,048	3,764,640	-------	-----	---	-----	61.4			1,552,300	-----		
	Plant							2,730	1,833					2,625			8,707,590	2,591	1,460	410	3,115		57.9	3,383,400	1,306		29.6
732	1	4	A	-	TP	O	250	168	4	13.75	17.5	257	200	1915	0	0	-------	-----	---	-----	----			----------	-----		
	2	4	A	-	TP	O	250	168	4	13.75	17.5	257	200	1916	1,875	468,750	-------	-----	---	-----	----			----------	-----		
	3	4	A	-	TP	O	520	349	4	19	24.5	200	500	1921	3,700	1,924,000	-------	-----	---	-----	----			----------	-----	CC	
	4	4	A	-	TP	O	750	504	4	23	32	150	625	1923	4,800	3,600,000	-------	-----	---	-----	----			----------	-----	&	
	5	4	A	-	CH	O	750	504	4	23	32	150	625	1925	6,000	4,500,000	-------	-----	---	-----	----			----------	-----	F	
	Plant							2,520	1,693					2,150			10,492,750	6,039	-----	---	1,737		50.4	3,560,900	588		42.0

TABLE III - INFORMATION COVERING LUBRICATING OIL (PAGE 2).

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	IN JECTION SYSTEM (See Notes)	SCAVENGING SYSTEM (See Notes)	TRUNK PISTON OR CROSSHEAD?	CYLINDERS OPEN OR CLOSED TO CRANKCASE?	RATED B.H.P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	RATED HORSEPOWER HOURS IN REPORTED PERIOD	TOTAL GALLONS OF NEW LUBRICATING OIL USED	GALLONS OF NEW LUBRICATING OIL FOR CYLINDER LUBRICATION ONLY	GALLONS OF UNFIT LUBRICATING OIL DISCARDED	RATED H.P. HRS. PER GALLON OF NEW LUBRICATING OIL	RUNNING ENGINE CAPACITY FACTOR (See Text)	RUNNING PLANT CAPACITY FACTOR (See Text)	GROSS OUTPUT - K.W. HRS.	GROSS K.W. HRS. PER GALLON OF NEW LUBRICATING OIL	LUBRICATING OIL TREATMENT (See Notes)	AVERAGE COST OF LUBRICATING OIL - CENTS PER GALLON
978	1 2 M				TP	O	840	564	6	16	20	257	700	1931	1,509	1,267,560	-----	-----	---	-----	-----		----------	-----	----	
	2 2 M				TP	O	840	564	6	16	20	257	700	1931	1,327	1,114,680	-----	-----	---	-----	-----		----------	-----	----	
	3 2 M				TP	O	840	564	6	16	20	257	700	1931	1,769	1,485,960	-----	-----	---	-----	-----		----------	-----	----	
	Plant						2,520	1,692					2,100			3,868,200	1,149	-----	---	3,366		87.6	2,274,700	1,978		51.2
908	1 2 A		P	P	CH	O	1,250	840	5	20.75	26	180	1,100	1925	6,152	7,690,000	-----	-----	---	-----	69.8		3,604,300	-----	CC&	
	2 2 A		P	P	CH	O	1,250	840	5	20.75	26	180	1,100	1925	6,284	7,853,750	-----	-----	---	-----	67.4		3,552,800	-----	S	
	Plant						2,500	1,680					2,200			15,543,750	3,980	1,098	---	3,905		68.5	7,157,100	1,798		38.4
93	1 2 M		P	P	TP	O	700	470	5	16	20	257	600	1928	5,680	3,976,000	-----	-----	---	-----	48.0		1,281,100	-----		
	2 2 M		P	P	TP	O	700	470	5	16	20	257	600	1928	6,499	4,549,300	-----	-----	---	-----	51.3		1,569,300	-----	CC	
	3 2 M		M	M	TP	O	560	376	4	16	20	257	470	1928	4,104	2,298,240	-----	-----	---	-----	54.3		838,200	-----		
	4 4 A		-	-	TP	O	520	349	4	19	24.5	200	446	1914[5]	3,031	1,576,120	-----	-----	---	-----	60.2		636,600	-----		
	Plant						2,480	1,665					2,116			12,399,660	4,356	-----	---	2,845		52.0	4,325,200	993		38.9
111	1 4 A		-	-	TP	O	900	604	8	17	24	225	770	1928	-----	----------	-----	-----	---	-----	-----		1,444,400	-----	CC&	
	2 4 A		-	-	TP	O	900	604	8	17	24	225	770	1928	-----	----------	-----	-----	---	-----	-----		1,521,500	-----	S	
	3 4 A		-	-	TP	O	675	453	6	17	24	225	580	1928	-----	----------	-----	-----	---	-----	-----		1,564,000	-----		
	Plant						2,475	1,661					2,120			----------	3,960	2,100	80	-----		-----	4,529,900	1,144		50.6
1149	1 2 M		P	P	TP	O	1,200	806	8	16	20	257	1,050	1932	-----	----------	-----	-----	---	-----	----		----------	-----		
	2 2 M		P	P	TP	O	1,200	806	8	16	20	257	1,041	1932	-----	----------	-----	-----	---	-----	----		----------	-----	BC	
	Plant						2,400	1,612					2,091			----------	255	-----	---	-----		----	617,470	2,420		52.1
60	1 4 M		-	-	TP	O	800	537	8	19.5	22	200	675	1924	3,748	2,998,400	-----	-----	---	-----	25.6		515,500	-----	BC &	
	2 4 M		-	-	TP	O	800	537	8	19.5	22	200	675	1924	1,868	1,494,400	-----	-----	---	-----	24.0		240,200	-----	S &	
	3 4 M		-	-	TP	O	800	537	8	19.5	22	200	675	1924	2,897	2,317,600	-----	-----	---	-----	24.4		379,500	-----	F	
	Plant						2,400	1,611					2,025			6,810,400	2,211	-----	---	3,080		24.8	1,135,200	513		33.5
723	1 2 A		C	C	TP	O	300[1]	202	6	14	17	257	250	1925	263	78,900	70	-----	---	1,127	74.6		39,640	566		
	2 2 M		M	M	TP	O	300[1]	202	6	14	17	257	250	1925	356	106,800	80	-----	---	1,335	69.1		49,660	621		
	3 2 M		M	M	TP	O	720	484	6	16	20	257	600	1927	1,092	786,240	588	-----	---	1,337	65.0		343,500	584	BC	
	4 2 M		M	M	TP	O	1,050	705	7	16	20	257	910	1931	2,125	2,231,250	1,031	-----	---	2,164	67.7		1,013,100	983		
	Plant						2,370	1,593					2,010			3,203,190	1,769	-----	---	1,811		67.2	1,445,700	817		57.1
41	1 4 A		-	-	TP	O	520	349	3	22	29.5	164	400	1922	3,260	1,705,600	------	-----	---	-----	60.2		689,590	-----	CC &	
	2 4 A		-	-	TP	O	700	470	4	22	29.5	164	500	1923	2,665	2,005,500	-----	-----	---	-----	56.9		766,200	-----	S &	
	3 4 A		-	-	TP	O	1,150	772	6	23	29.5	164	900	1928	4,191	4,819,650	-----	-----	---	-----	70.8		2,292,300	-----	F	
	Plant						2,370	1,591					1,800			8,530,750	4,860	1,152	---	1,755		65.5	3,748,090	771		46.9
79	1 4 A		-	-	TP	O	225	151	3	16	24	164	198	1911	323	72,675	63	18	---	1,154	53.0		25,640	410	----	
	2 4 A		-	-	TP	O	225	151	3	16	24	164	198	1912	965	217,125	132	54	---	1,645	54.6		79,560	603	----	
	3 4 A		-	-	TP	O	600	403	6	16.25	23	225	512	1929	4,754	2,852,400	1,281	341	---	2,226	66.3		1,269,900	991	----	
	4 4 A		-	-	TP	O	520	349	4	19	24.5	200	438	1923	5,218	1,673,360	972	259	---	1,722	69.2		776,900	799	----	
	5 4 A		-	-	TP	O	600	403	6	16.25	23	225	512	1925	4,888	2,932,800	1,197	366	---	2,450	66.2		1,304,200	1,089	----	
	Plant						2,170	1,457					1,858			7,748,360	3,645	1,038	---	2,125		66.4	3,456,400	948		40.7
5	1 2 M		P	P	TP	O	720	484	6	16	20	257	-----	1926	1,800	1,296,000	-----	-----	---	-----	-----		----------	-----	----	
	2 2 M		P	P	TP	O	720	484	6	16	20	257	-----	1927	1,829	1,316,880	-----	-----	---	-----	----		----------	-----	----	
	3 2 M		P	P	TP	O	720	484	6	16	20	257	-----	1927	2,337	1,682,640	-----	-----	---	-----	----		----------	-----	----	
	Plant						2,160	1,452					-----			4,295,520	3,276	-----	---	1,315		94.4	2,721,770	831		51.4
6	1 2 M		C	-	TP	O	300[1]	202	6	14	17	257	-----	1926	33	9,900	-----	-----	---	-----	---		----------	-----	-----	
	2 4 A		-	-	TP	O	600	403	6	17	25	200	-----	1926	1,303	781,800	-----	-----	---	-----	----		----------	-----	-----	
	3 4 A		-	-	TP	O	600	403	6	17	25	200	-----	1927	1,505	903,000	-----	-----	---	-----	----		----------	-----	-----	
	4 4 A		-	-	TP	O	600	403	6	17	25	200	-----	1928	1,642	985,200	-----	-----	---	-----	----		----------	-----	-----	
	Plant						2,100	1,411					------			2,679,900	1,519	-----	---	1,764		97.4	1,761,200	1,163		50.9
68	1 2 M		C	C	TP	O	240	161	4	14	17	257	200	1925	2,467	592,080	-----	-----	---	-----	54.4		216,200	-----		
	2 2 M		M	M	TP	O	360	242	6	14	17	257	300	1925	3,622	1,303,920	-----	-----	---	-----	54.7		479,600	-----	BC	
	3 2 M		M	P	TP	O	560	376	4	16	20	257	470	1928	4,623	2,588,880	-----	-----	---	-----	68.4		1,189,000	-----	&	
	4 2 M		M	P	TP	O	900	604	6	16	20	257	774	1930	3,243	2,916,700	-----	-----	---	-----	66.1		1,294,700	-----	S	
	Plant						2,060	1,383					1,744			7,403,580	3,159	-----	54	2,340		63.9	3,179,500	1,006		40.0
83	1 4 A		-	-	TP	O	600	403	6	16.25	23	225	520	1929	4,758	2,854,600	688	252	0	4,149	57.6		1,105,800	1,607		
	2 4 A		-	-	TP	O	400	269	4	16.25	23	225	340	1927	3,545	1,418,000	500	162	0	2,836	50.1		477,200	954	BC	
	3 4 M		-	-	TP	O	1,000	671	8	17.5	25	225	875	1932	845	845,000	200	40	0	4,225	36.0		204,500	1,023		
	Plant						2,000	1,343					1,735			5,117,800	1,388	454	0	3,685		52.0	1,787,500	1,287		55.0
215	1 2 M		P	P	TP	O	980	658	7	16	20	257	845	1930	1,335	1,308,300	-----	-----	---	-----	84.5		741,800	-----		
	2 2 M		P	P	TP	O	980	658	7	16	20	257	845	1930	823	806,540	-----	-----	---	-----	83.7		453,200	-----	BC	
	Plant						1,960	1,316					1,690			2,114,840	691	-----	---	3,061		84.2	1,195,000	1,729		48.9
736	1 2 A		P	P	CH	O	1,125	755	6	17	27	180	900	1924	1,251	1,407,375	------	-----	0	-----	62.6		591,300	-----	BC	
	2 4 A		-	-	TP	O	400	269	4	16.5	24	200	336	1922	2,930	1,172,000	-----	-----	0	-----	79.0		622,200	-----	BC & F	
	3 4 A		-	-	TP	O	400	269	4	16.5	24	200	336	1922	2,528	1,011,200	-----	-----	0	-----	81.2		552,000	-----	BC & F	
	Plant						1,925	1,293					1,572			3,590,575	1,643	-----	0	2,184		73.2	1,765,500	1,074		64.2
837	1 4 A		-	-	CH	O	750	504	4	23	32	150	625	1922	7,210	5,407,500	2,563	-----	---	2,110	47.7		1,732,600	676		
	2 4 A		-	-	TP	O	450	302	6	16	24	164	413	1918	1,313	590,850		-----	---							
	3 4 A		-	-	TP	O	225	151	3	16	24	164	200	1904	1,578	355,050		-----	---							
	4 4 A		-	-	TP	O	225	151	3	16	24	164	200	1904	817	183,825	2,163	-----	---	639	53.4		495,149	229	F	
	5 4 A		-	-	TP	O	225	151	3	16	24	164	187	1906	1,120	252,000		-----	---							
	Plant				TP		1,875	1,259					1,625			6,789,225	4,726	-----	---	1,437		48.9	2,227,749	471		34.8
033	1 4 A		-	-	TP	O	500	336	4	18.875	28.375	164	350	----	170	85,000	-----	-----	---	-----	55.2		31,520	-----		
	2 4 A		-	-	TP	O	500	336	4	18.875	28.375	164	350	----	734	367,000	-----	-----	---	-----	73.9		182,130	-----		
	3 4 A		-	-	TP	O	500	336	4	18.875	28.375	164	350	----	1,385	692,500	-----	-----	---	-----	61.2		284,710	-----	S & F	
	4 4 A		-	-	TP	O	350	235	4	16.25	21	225	250	----	7	2,450	-----	-----	---	-----	40.1		660	-----		
	Plant						1,850	1,243					1,300			1,146,950	1,069	-----	---	1,073		64.8	499,020	467		25.9
158	1 2 A		P	P	CH	O	1,760	1,182	8	17	23	257	1,500	1930	1,495	2,631,200	795	250	---	3,310	32.7	32.7	577,178	726	S & F	68.2
212	1 4 A		-	-	TP	O	875	588	8	17.5	24	200	671	1929	258	225,750	53	49	---	4,257	71.4		108,300	2,043		
	2 4 A		-	-	TP	O	875	588	8	17.5	24	200	671	1929	258	225,750	46	40	---	4,907	72.2		109,500	2,380	S & F	
	Plant						1,750	1,176					1,342			451,500	99	89	---	4,562		71.8	217,800	2,200		65.2
722	1 2 M		C	C	TP	O	200[1]	134	4	14	17	257	170	1923	317	63,400	107	-----	---	593	75.9		32,260	301		
	2 2 M		M	C	TP	O	300[1]	202	6	14	17	257	250	1923	316	94,800	71	-----	---	1,335	82.8		52,840	744	BC	
	3 2 M		M	P	TP	O	840	564	6	16	20	257	700	1929	2,242	1,883,280	393	-----	---	4,792	58.8		743,700	1,892		
	4 4 A		-	-	TP	O	365	245	4	16.25	21	225	330	1916	847	309,155	132	-----	---	2,342	75.2		156,090	1,183		
	Plant						1,705	1,145					1,450			2,350,635	703	-----	---	3,344		62.4	984,890	1,401		79.2
735	1 2 M		P	P	TP	O	840	564	6	16	20	257	700	1928	3,342	2,807,280	-----	-----	0	-----	72.5		1,368,600	-----	BC	
	2 2 M		P	P	TP	O	840	564	6	16	20	257	700	1928	5,885	4,943,400	-----	-----	0	-----	68.0		2,254,800	-----		
	Plant						1,680	1,128					1,400			7,750,680	4,344	-----	0	1,784		69.7	3,623,400	834		63.0

TABLE III - INFORMATION COVERING LUBRICATING OIL (PAGE 3)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (See Notes)	SCAVENGING SYSTEM (See Notes)	TRUNK PISTON OR CROSSHEAD?	CYLINDERS OPEN OR CLOSED TO CRANKCASE?	RATED B.H.P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	RATED HORSEPOWER HOURS IN REPORTED PERIOD	TOTAL GALLONS OF NEW LUBRICATING OIL USED	GALLONS OF NEW LUBRICATING OIL FOR CYLINDER LUBRICATION ONLY	GALLONS OF UNFIT LUBRICATING OIL DISCARDED	RATED H.P. HRS. PER GALLON OF NEW LUBRICATING OIL	RUNNING ENGINE CAPACITY FACTOR (See Text)	RUNNING PLANT CAPACITY FACTOR (See Text)	GROSS OUTPUT - K.W. HRS.	GROSS K.W. HRS PER GALLON OF NEW LUBRICATING OIL	LUBRICATING OIL TREATMENT (See Notes)	AVERAGE COST OF LUBRICATING OIL - CENTS PER GALLON
18	1 2	M	C	CH	C		450	302	5	15.25	16	275	-----	1922	386	173,700	-----	-----	---	-----	----		----------	-----	----	
	2 4	A	-	TP	O		600	403	6	17	25	200	-----	1926	4,569	2,741,400	-----	-----	---	-----	----		----------	-----	----	
	3 4	A	-	TP	O		600	403	6	17	25	200	-----	1928	4,789	2,873,400	-----	-----	---	-----	----		----------	-----	----	
	Plant						1,650	1,108					-----			5,788,500	2,319	-----	---	2,496		62.4	2,422,980	1,045		51.4
88	1 4	A	-	TP	O		285	191	3	16.5	24	200	240	1920	5,148	1,467,180	-----	-----	---	-----	57.4		564,640	-----		
	2 4	A	-	TP	O		285	191	3	16.5	24	200	240	1920	3,313	944,205	-----	-----	---	-----	50.9		322,464	-----	CC & S	
	3 4	A	-	TP	O		300	202	3	16.5	24	200	-----	1925	2,370	711,000	-----	-----	---	-----	72.8		348,600	-----	& F	
	4 2	A	P	TP	O		750	504	5	14.75	21	257	650	1932	4,412	3,309,000	-----	-----	---	-----	58.2		1,293,800	-----		
	Plant						1,620	1,088					-----			6,431,385	2,488	1,633	---	2,603		58.6	2,529,724	1,017		47.3
6	1 4	A	-	TP	O		400	269	4	16.5	24	200	-----	1921	4,864	1,945,600	-----	-----	---	-----	42.7		557,850	-----	CC & F	
	2 4	A	-	TP	O		560	376	3	22.5	22.5	225	-----	1922	186	104,160	-----	-----	250	-----	50.0		34,660	-----	CC	
	3 4	A	-	TP	O		600	403	6	17	25	200	-----	1926	4,050	2,430,000	-----	-----	---	-----	65.0		1,060,250	-----	CC	
	Plant						1,560	1,048					-----			4,479,760	2,030	-----	---	2,207		55.0	1,652,980	814		43.0
1154	1 4	A	-	TP	O		750	504	6	17.5	24.5	225	560	1931	4,464	3,348,000	847	-----	0	3,953	46.4		1,042,900	1,231	BC &	
	2 4	A	-	TP	O		750	504	6	17.5	24.5	225	560	1931	4,403	3,302,250	810	-----	0	4,077	46.5		1,030,600	1,271	S	
	Plant						1,500	1,008					1,120			6,650,250	1,657	-----	0	4,013		46.5	2,073,500	1,251		85.9
132	1 4	A	-	TP	O		375	252	3	17.5	24.5	225	319	1929	5,031	1,886,625	341	-----	0	5,540	59.5		753,800	2,210		
	2 4	A	-	TP	O		500	336	4	17.5	24.5	225	432	1929	2,855	1,427,500	275	-----	0	5,195	72.0		690,300	2,510	CC	
	3 4	A	-	TP	O		625	420	5	17.5	24.5	225	538	1929	1,005	628,125	100	-----	0	6,280	69.9		294,800	2,950		
	Plant						1,500	1,008					1,289			3,942,250	716	-----	0	5,510		65.7	1,738,900	2,430		55.0
289	1 4	A	-	TP	O		250	168	4	13.75	17.5	257	210	1920	5,156	1,289,000	562	302	0	2,293	69.8		602,120	1,071		
	2 4	A	-	TP	O		250	168	4	13.75	17.5	257	210	1920	5,086	1,271,500	549	336	0	2,315	68.5		584,490	1,065		
	3 4	A	-	TP	O		365	245	4	16.25	21	225	300	1915	3,668	1,338,820	383	269	0	3,495	64.7		581,370	1,517	BC	
	4 4	A	-	TP	O		600	403	6	16.25	23	225	512	1927	2,901	1,740,600	683	289	0	2,548	78.8		921,400	1,348		
	Plant						1,465	984					1,232			5,639,920	2,177	1,196	0	2,590		71.1	2,689,380	1,235		50.0
496	1 4	A	-	TP	O		400	269	4	16.5	24.5	200	340	1925	2,514	1,005,600	95	77	0	10,580	52.6		354,475	3,735	CC &	
	2 4	A	-	TP	O		300	201	3	16.5	24.5	200	250	1925	5,588	1,676,400	195	140	0	8,600	41.4		444,975	2,365	BC &	
	3 4	A	-	TP	O		750	504	6	17.5	24.5	225	650	1928	1,696	1,272,000	288	259	0	4,420	45.4		387,575	1,347	S & C	
	Plant						1,450	974					1,240			3,954,000	578	476	0	6,840		45.5	1,207,025	2,085		64.0
70	1 2	M	P	TP	O		560	376	4	16	20	257	470	1928	4,357	2,439,920	1,966	-----	---	2,510	54.6		894,185	908	CC &	
	2 2	M	P	TP	O		560	376	4	16	20	257	470	1928	4,457	2,495,920	-----	-----	---	-----	53.2		891,270	-----	F	
	3 2	M	C	TP	O		300[1]	202	6	14	17	257	250	1923	801	240,300	182	-----	---	1,320	64.0		103,345	568		
	Plant						1,420	954					1,190			5,176,140	2,148	-----	---	2,410		54.3	1,888,800	879		41.2
198	1 2	M	P	TP	O		1,400	941	8	16	20	300	1,392	1932[k]	2,791	3,907,400	1,413	-----	0	2,764	83.6	83.6	2,195,580	1,554	BC	50.3
163	1 4	M	-	TP	O		400	269	4	17.75	22	225	343	1924	60	24,000	4	-----	0	6,000	51.4		8,300	2,075		
	2 4	M	-	TP	O		400	269	4	17.75	22	225	343	1927	696	276,400	151	-----	120	1,843	49.3		92,290	611	BC	
	3 4	M	-	TP	O		600	403	6	17.75	22	225	625	1929	193	115,600	20	-----	0	5,750	52.7		41,000	2,050		
	Plant						1,400	941					1,311			418,200	175	-----	120	2,389		50.4	141,590	809		26.2
154	1 4	A	-	TP	C		600	403	6	17	24	200	-----	1927	2,121	1,272,600	-----	-----	---	-----	----		----------	-----	----	
	2 4	A	-	TP	O		400	269	4	17	24	200	-----	1926	1,586	634,400	-----	-----	---	-----	----		----------	-----	----	
	3 4	A	-	TP	O		400	269	4	17	24	200	-----	1925	2,277	910,800	-----	-----	---	-----	----		----------	-----	----	
	Plant						1,400	941					-----			2,817,800	847	-----	---	3,325		81.9	1,548,990	1,830		51.5
888	1 4	A	-	TP	O		300	202	3	17	24	200	250	1925	574	172,200	-----	-----	---	-----	40.1		46,520	-----	BC & F	
	2 4	A	-	TP	O		400	269	4	17	24	200	375	1925	1,929	771,600	-----	-----	---	-----	54.2		281,300	-----	BC & F	
	3 4	A	-	TP	O		675	453	6	17	24	225	575	1931	8,522	5,752,350	-----	-----	---	-----	49.4		1,908,280	-----	BC	
	Plant						1,375	924					1,200			6,696,150	993	-----	---	6,740		49.8	2,236,100	2,250		75.5
517	1 4	M	-	TP	O		750	504	6	17	25	225	625	1932	4,487	3,365,250	537	337	0	6,262	25.6		578,330	1,076		
	2 4	A	-	TP	C		625	420	5	17.5	25	225	625	1930	4,273	2,670,625	736	272	0	3,629	30.8		551,590	749	CC	
	Plant						1,375	924					1,250			6,035,875	1,273	609	0	4,738		27.9	1,129,920	868		50.0
1016	1 4	A	-	TP	O		365	245	4	16.25	21	225	312	1922	8,170	2,982,050	-----	-----	287	-----	54.2		1,085,430	-----		
	2 4	A	-	TP	O		200	134	6	11	14	257	150	1924	2,020	404,000	-----	-----	133	-----	74.3		201,100	-----	CC	
	3 2	A	P	TP	O		800	538	6	14.75	18	277	650	1926	906	724,800	-----	-----	400	-----	60.9		297,100	-----		
	Plant						1,365	917					1,112			4,110,850	2,344	-----	820	1,763		57.4	1,583,630	675		47.7
886	1 2	M	C	TP	O		120	81	2	14	17	257	85	1927	608	36,960	-----	-----	---	-----	----		----------	-----		
	2 2	M	C	TP	O		200[1]	134	4	14	17	257	170	1925	2,489	497,800	-----	-----	---	-----	----		----------	-----	BC &	
	3 2	M	C	TP	O		360	242	6	14	17	257	300	1929	3,457	1,244,520	-----	-----	---	-----	----		----------	-----	S & F	
	4 4	A	-	TP	O		625	420	5	17.5	25	225	535	1931	2,919	1,824,375	-----	-----	---	-----	----		----------	-----		
	Plant						1,305	877					1,090			3,603,655	2,351	-----	---	1,533		39.3	951,088	405		52.5
13	1 4	A	-	TP	O		275	185	4	13.5	19.5	257	219	1923	6,762	1,859,550	1,140	742	398	1,631	62.2		778,500	683		
	2 4	A	-	TP	O		200	134	3	13.5	19.5	257	156	1923	2,994	598,800	477	301	176	1,258	60.3		242,100	507	CC	
	3 4	A	-	TP	O		750	504	4	23	29.5	164	625	1925	1,378	1,033,500	575	362	213	1,798	46.8		325,400	566		
	Plant						1,225	823					1,000			3,491,850	2,192	1,405	787	1,592		57.4	1,346,000	614		36.4
1083	1 2	M	P	TP	O		1,200	806	8	16	20	257	1,042	1931	3,844	4,612,800	1,760	-----	0	2,620	70.5	70.5	2,182,227	1,240	CC	50.1
725	1 4	A	-	TP	O		600	403	6	17	25	200	500	1926	7,100	4,260,000	-----	-----	---	-----	-----		----------	-----	BC &	
	2 4	A	-	TP	O		400	269	4	17	25	200	337	1925	4,528	1,811,200	-----	-----	---	-----	----		----------	-----	S & C	
	3 2	M	C	TP	O		200[1]	134	4	14	17	257	170	1924	3,281	656,200	-----	-----	---	-----	----		----------	-----		
	Plant						1,200	806					1,007			6,727,400	4,346	1,619	400	1,548		74.4	3,362,149	774		62.0
451	1 2	M	P	TP	O		600	403	4	16	20	257	512	1931	-----	----------	-----	-----	0	-----	----		----------	-----		
	2 2	M	P	TP	O		600	403	4	16	20	257	512	1931	-----	----------	-----	-----	0	-----	----		----------	-----	CC	
	Plant						1,200	806					1,024		8,963	5,377,600	2,132	-----	0	2,522		46.9	1,693,200	794		36.2
333	1 4	A	-	TP	O		1,200	806	6	20	24	300	938	1929	1,094	1,312,800	810	-----	200	1,622	77.2	77.2	680,400	840	C	56.2
17	1 4	A	-	TP	O		600	403	6	17	25	200	-----	1926	4,369	2,621,400	-----	-----	---	-----	----		----------	-----	----	
	2 4	A	-	TP	O		600	403	6	17	25	200	-----	1926	4,670	2,802,000	-----	-----	---	-----	----		----------	-----	----	
	Plant						1,200	806					-----			5,423,400	1,483	-----	---	3,657		58.3	2,121,600	1,431		52.6
16	1 4	A	-	TP	O		600	403	6	17	25	200	512	1927	537	322,200	-----	-----	---	-----	----		----------	-----		
	2 2	M	C	TP	O		240	161	4	14	17	257	200	1925	392	94,080	-----	-----	---	-----	----		----------	-----	CC	
	3 2	M	C	TP	O		360	242	6	14	17	257	300	1925	481	173,160	-----	-----	---	-----	----		----------	-----		
	Plant						1,200	806					1,012			589,440	420	-----	75	1,402		98.2	388,590	925		49.0
14	1 2	A	P	CH	O		450	302	3	16.75	22	225	-----	1926	-----	----------	-----	-----	---	-----	----		836,700	-----		
	2 2	A	P	CH	O		750	504	4	16.75	22	240	-----	1926	-----	----------	-----	-----	---	-----	----		279,500	-----	BC	
	Plant						1,200	806					-----			----------	1,403	754	---	-----		----	1,116,200	796		50.0
878	1 2	M	P	TP	O		560	376	4	16	20	257	470	1929	4,833	2,706,480	1,312	-----	0	2,062	69.5		1,261,900	962	CC	
	2 2	M	C	TP	O		200[1]	134	4	14	17	257	170	1919	63	12,600	21	-----	0	600	78.5		6,630	316	BC	
	3 4	A	-	TP	O		400	269	4	17	25	200	337	1924	4,382	1,752,800	1,198	-----	0	1,463	82.3		970,500	810	BC	
	Plant						1,160	779					977			4,471,880	2,531	-----	0	1,766		74.6	2,239,030	885		51.6
193	1 4	A	-	TP	O		675	453	5	18	25	225	625	1931	3,893	2,627,775	266	-----	---	9,879	47.9		844,090	3,173	CC	
	2 4	A	-	TP	O		480	322	6	13	17	360	415	1932[j]	4,431	2,126,880	399	-----	---	5,337	42.7		609,900	1,528		
	Plant						1,155	775					1,040			4,754,655	665	-----	---	7,150		45.5	1,453,990	2,155		67.6

TABLE III - INFORMATION COVERING LUBRICATING OIL (PAGE 4)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (See Notes)	SCAVENGING SYSTEM (See Notes)	TRUNK PISTON OR CROSSHEAD?	CYLINDERS OPEN OR CLOSED TO CRANKCASE?	RATED B.H.P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	RATED HORSEPOWER HOURS IN REPORTED PERIOD	TOTAL GALLONS OF NEW LUBRICATING OIL USED	GALLONS OF NEW LUBRICATING OIL FOR CYLINDER LUBRICATION ONLY	GALLONS OF UNFIT LUBRICATING OIL DISCARDED	RATED H.P. HRS. PER GALLON OF NEW LUBRICATING OIL	RUNNING ENGINE CAPACITY FACTOR (See Text)	RUNNING PLANT CAPACITY FACTOR (See Text)	GROSS OUTPUT - K.W. HRS.	GROSS K.W. HRS. PER GALLON OF NEW LUBRICATING OIL	LUBRICATING OIL TREATMENT (See Notes)	AVERAGE COST OF LUBRICATING OIL - CENTS PER GALLON
616	1 | 4 | A	-	TP	O			300	202	3	16.5	23	200	250	1923	4,588	1,376,400	750	-----	0	1,835	70.4		652,010	869		
	2 | 2 | M	C	TP	O			100[1]	67	2	14	17	257	75	1920	161	16,100	31	-----	0	519	90.0		9,700	313	CC	
	3 | 4 | A	-	CH	O			750	504	4	23	32	150	657	1925	4,156	3,117,000	1,133	-----	0	2,750	50.1		1,049,600	926		
	Plant						1,150	773					982			4,509,500	1,914	-----	0	2,355		56.5	1,711,310	894		52.3
887	1 | 2 | M	C	TP	O			150[1]	101	3	14	17	257	125	1922	24	3,600	-----	-----	---	-----	-----		----------	-----		
	2 | 2 | A	P	CH	O			440	295	4	15	20	225	375	1930	8,493	3,736,920	-----	-----	---	-----	-----		----------	-----	BC	
	3 | 4 | M	-	TP	O			550	369	5	17	24	225	438	1928	248	136,400	-----	-----	---	-----	-----		----------	-----	&C	
	Plant						1,140	765					938			3,876,920	1,396	-----	---	2,775		45.9	1,195,560	857		77.9
95	1 | 2 | M	P	TP	O			560	376	4	16	20	257	469	1929	370	207,200	-----	-----	---	-----	61.4		113,300	-----		
	2 | 2 | M	P	TP	O			560	376	4	16	20	257	469	1929	836	468,160	-----	-----	---	-----	65.4		268,300	-----	BC	
	Plant						1,120	752					938			675,360	83	-----	---	8,137		84.2	381,600	4,598		41.0
96	1 | 4 | M	-	TP	O			600	403	6	17	24	225	500	1925	849	509,400	-----	-----	---	-----	53.6		163,300	-----		
	2 | 4 | M	-	TP	O			300	202	3	17	24	225	250	1923	7,476	2,242,800	-----	-----	---	-----	38.0		573,500	-----	BC	
	3 | 2 | M	C	TP	O			200[1]	134	4	14	17	257	170	1921	584	116,800	-----	-----	---	-----	45.5		35,600	-----	&S	
	Plant						1,100	739					920			2,869,000	1,435	-----	---	2,000		41.2	792,400	552		42.8
143	1 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1928	-----	----------	-----	-----	---	-----	-----		421,467	-----		
	2 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1928	-----	----------	-----	-----	---	-----	-----		420,890	-----	BC	
	3 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1928	-----	----------	-----	-----	---	-----	-----		422,044	-----		
	Plant						1,080	726					900			----------	2,225	-----	---	-----		----	1,264,401	568		79.6
76	1 | 4 | N	-	TP	O			400	269	4	17	24	225	375	1928	3,936	1,574,400	755	-----	214	2,085	30.5		322,900	428		
	2 | 4 | M	-	TP	O			660	443	6	17	24	240	625	1930	5,385	3,554,100	970	-----	360	3,664	50.5		1,205,597	1,243	CC	
	Plant						1,060	712					1,000			5,128,500	1,725	-----	574	2,973		44.4	1,528,497	886		33.1
519	1 | 2 | M	C	TP	O			200[1]	134	4	14	17	257	170	1925	-----	----------	-----	-----	30	-----	-----		---------	------		
	2 | 2 | M	C	TP	O			300[1]	202	6	14	17	257	250	1922	-----	----------	-----	-----	40	-----	-----		---------	-----	BC	
	3 | 2 | M	P	TP	O			560	376	4	16	20	257	470	1929	-----	----------	-----	-----	320	-----	-----		---------	-----		
	Plant						1,060	712					890			----------	2,541	-----	390	-----		----	1,657,470[h]	652		43.0
2144	1 | 2 | M	C	TP	O			210	141	3	14	17	300	167	1931	4,932	1,035,720	800	-----	0	1,294	53.3		370,800	464		
	2 | 2 | M	C	TP	O			420	282	6	14	17	300	353	1931	3,240	1,360,800	630	-----	0	2,160	66.4		607,000	964	C & F	
	3 | 2 | M	C	TP	O			420	282	6	14	17	300	353	1931	3,276	1,375,920	649	-----	0	2,120	65.8		607,200	936		
	Plant						1,050	705					873			3,772,440	2,079	-----	0	1,814		62.6	1,585,000	763		57.2
259	1 | 2 | M	C	TP	O			210	141	3	14	17	300	170	1931	6,177	1,297,170	760	-----	25	1,663	55.0		477,792	613	BC	
	2 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1926	1,767	636,120	380	-----	25	1,674	41.4		176,940	466	&F	
	3 | 2 | M	C	TP	O			480	322	4	16	20	257	400	1928	988	474,240	100	-----	0	4,742	45.6		145,100	1,451		
	Plant						1,050	705					870			2,407,530	1,260	-----	50	1,910		49.5	799,832	635		52.1
203	1 | 2 | M	P	TP	O			525	362	5	14	17	300	447	1931	3,898	2,046,450	-----	-----	0	-----	59.4		814,600	-----		
	2 | 2 | M	P	TP	O			525	362	5	14	17	300	447	1931	4,064	2,133,600	-----	-----	0	-----	52.2		747,600	-----	CC	
	Plant						1,050	704					894			4,180,050	2,829	-----	0	1,478		55.7	1,562,600	552		49.2
801	1 | 2 | A	P	CH	O			1,000	671	4	20.75	26	180	937	1927	8,451	8,451,000	1,921	679	0	4,399	65.2	85.2	4,837,200	2,518	BC,S&F	63.4
738	1 | 4 | A	-	CH	O			1,000	671	6	22	32	150	900	1916[m]	640	640,000	497	-----	0	1,287	82.3	82.3	353,500	711	CC	38.6
1061	1 | 2 | M	P	TP	O			980	658	7	16	20	257	975	1930	4,955	4,855,900	2,554	-----	0	1,901	94.5	94.5	3,081,100	1,206	BC & S	41.5
863	1 | 4 | A	-	TP	O			300	202	3	17	24	200	250	1925	6,601	1,980,300	440	-----	60	4,501	74.6		995,700	2,262	S & F	
	2 | 4 | A	-	TP	O			675	453	6	17	24	225	625	1927	5,260	3,550,500	1,595	394	100	2,226	65.3		2,033,800	1,275	GC & S	
	Plant						975	655					875			5,530,800	2,035	-----	160	2,718		81.6	3,029,500	1,469		67.3
1065	1 | 2 | M	P	TP	O			900	605	6	16	20	257	774	1931	755	679,500	480	-----	50	1,416	83.3	83.3	380,160	792	CC	49.9
560	1 | 2 | M	C	CH	C			200	134	4	12.5	13.25	327	169	1924	4,927	985,400	396	135	0	2,488	-----		----------	-----		
	2 | 2 | M	C	CH	C			200	134	4	12.5	13.25	327	169	1924	4,819	963,800	382	157	0	2,523	-----		----------	-----	CC	
	3 | 4 | A	-	TP	O			500	336	5	17	24	200	438	1929	1,814	907,000	238	58	50	3,811	-----		----------	-----		
	Plant						900	604					776			2,856,200	1,016	350	50	2,810		38.2	731,930	720		52.1
260	1 | 2 | A	P	TP	O			900	605	6	14.75	21	257	750	1928	319	287,100	120	120	---	2,391	47.0	47.0	90,700	756	CC	75.0
98	1 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1926	4,043	1,455,480	-----	-----	---	-----	60.2		569,300	-----		
	2 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1929	4,006	1,442,160	------	-----	---	-----	59.2		572,800	-----	BC	
	3 | 2 | M	C	TP	O			180	121	3	14	17	257	140	1926	5,386	969,480	-----	-----	---	-----	66.8		435,400	-----		
	Plant						900	605					740			3,867,120	1,749	-----	---	2,211		61.5	1,597,500	913		40.6
53	1 | 2 | M	C	TP	O			200[1]	134	4	14	17	257	170	1923	1,959	391,800	409	-----	---	786	71.2		187,160	238		
	2 | 2 | M	C	TP	O			300[1]	201	6	14	17	257	250	1923	2,544	763,200	844	-----	---	904	70.7		362,290	417	S	
	3 | 4 | A	-	TP	O			400	269	4	16.25	23	225	338	1925	8,221	3,288,400	751	352	---	4,379	68.4		1,508,530	2,010		
	Plant						900	604					758			4,443,400	2,094	-----	---	2,121		69.0	2,057,980	983		38.6
189	1 | 4 | M	-	TP	O			550	369	5	17	24	240	470	1929	8,643	4,753,650	-----	480	0	-----	32.6		1,041,080	-----		
	2 | 4 | M	-	TP	O			200[e]	134	2	17	24	200	170	1922	141	28,200	-----	17	0	-----	58.4		11,040	-----	S &	
	3 | 4 | M	-	TP	O			100[e]	67	1	17	24	200	90	1915	0	0	-----	0	0	-----	----		0	-----	C	
	Plant						850	570					730			4,781,850	1,272	497	0	3,755		32.8	1,052,120	827		64.3
1056	1 | 2 | M	P	TP	O			840	564	6	16	20	257	700	1929	4,166	3,499,440	1,430	-----	0	2,446	76.2	76.2	1,791,070	1,252	BC	26.4
619	1 | 2 | M	P	TP	O			840	564	6	16	20	257	700	1929	1,363	1,144,920	420	-----	150	2,725	76.5	76.5	586,300	1,400	----	50.0
494	1 | 2 | M	P	TP	O			840	564	6	16	20	257	700	1930	1,178	989,520	540	-----	130	1,831	74.5	74.5	495,200	917	----	48.6
153	1 | 2 | M	P	TP	O			840	564	6	16	20	257	700	1929	2,078	1,745,520	1,005	-----	---	1,735	82.7	82.7	969,410	972	-----	49.1
731	1 | 4 | A	-	TP	O			825	554	4	23	32	164	750	1926	1,555	1,282,875	1,549	-----	---	828	68.2	68.2	585,805	378	S&P&-	42.0
648	1 | 4 | M	-	TP	O			400	269	4	17	24	225	333	1928	2,653	1,061,200	379	-----	40	2,799	70.4		501,990	1,323	BC &	
	2 | 4 | M	-	TP	O			400	269	4	17	24	225	333	1928	3,180	1,272,000	451	-----	40	2,822	70.0		597,540	1,325	S & C	
	Plant						800	538					666			2,333,200	830	-----	80	2,810		70.2	1,099,530	1,324		50.0
421	1 | 4 | A	-	TP	O			800	537	8	17	24	200	681	1930	7,044	5,635,200	1,058	808	250	5,326	69.6	69.6	2,631,800	2,488	CC	43.0
112	1 | 2 | M	C	TP	O			200[1]	134	4	14	17	257	170	1925	3,093	618,600	434	-----	---	1,425	77.1		320,100	737		
	2 | 2 | M	C	TP	O			240	161	4	14	17	257	200	1927	6,914	1,659,360	944	-----	---	1,758	75.4		840,300	890	BC	
	3 | 2 | M	C	TP	O			300[1]	202	6	14	17	257	250	1925	2,517	755,100	657	-----	---	1,150	76.1		385,500	587	&S	
	Plant						740	497					620			3,033,060	2,035	-----	---	1,490		75.8	1,545,900	760		45.4
718	1 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1926	4,750	1,710,000	929	-----	---	1,841	32.5		373,910	403	S&	
	2 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1926	4,250	1,530,000	931	-----	---	1,643	33.4		343,410	369	P&C	
	Plant						720	484					600			3,240,000	1,860	-----	---	1,742		33.0	717,320	386		35.4
532	1 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1929	5,317	1,914,120	-----	-----	---	-----	----		----------	-----	S&	
	2 | 2 | M	C	TP	O			360	242	6	14	17	257	300	1929	5,043	1,815,480	-----	-----	---	-----	----		----------	-----	C	
	Plant						720	484					600			3,729,600	2,659	-----	---	1,404		54.0	1,382,300	509		53.7

TABLE III - INFORMATION COVERING LUBRICATING OIL (PAGE 5)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (See Notes)	SCAVENGING SYSTEM (See Notes)	TRUNK PISTON OR CROSSHEAD?	CYLINDERS OPEN OR CLOSED TO CRANKCASE?	RATED B.H.P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	RATED HORSEPOWER HOURS IN REPORTED PERIOD	TOTAL GALLONS OF NEW LUBRICATING OIL USED	GALLONS OF NEW LUBRICATING OIL FOR CYLINDER LUBRICATION ONLY	GALLONS OF UNFIT LUBRICATING OIL DISCARDED	RATED H.P. HRS. PER GALLON OF NEW LUBRICATING OIL	RUNNING ENGINE CAPACITY FACTOR (See Text)	RUNNING PLANT CAPACITY FACTOR (See Text)	GROSS OUTPUT - K.W. HRS.	GROSS K.W. HRS. PER GALLON OF NEW LUBRICATING OIL	LUBRICATING OIL TREATMENT (See Notes)	AVERAGE COST OF LUBRICATING OIL - CENTS PER GALLON
527	1 2 S	M	C	TF	O		360	242	6	14	17	257	300	1930	5,404	1,945,440	-----	-----	0	-----	----		----------	-----	C&	
	2 2 S	M	C	TF	O		360	242	6	14	17	257	300	1930	5,000	1,800,000	-----	-----	0	-----	----		----------	-----	F	
	Plant						720	484					600			3,745,440	1,281	-----	0	2,924		39.6	997,200	778		61.0
170	1 2 S	M	C	TF	O		360	242	6	14	17	257	300	1929	2,429	874,440	614	-----	82	1,424	----		----------	-----	F & S	
	2 2 S	M	C	TF	O		360	242	6	14	17	257	300	1929	2,572	925,920	629	-----	70	1,471	----		----------	-----	&C	
	Plant						720	484					600			1,800,360	1,243	-----	152	1,447		58.2	703,156	566		45.8
67	1 2 S	M	C	TF	O		360	242	6	14	17	257	250	1925	2,122	763,920	816	-----	62	936	81.5		418,240	513	F &	
	2 2 S	M	C	TF	O		360	242	6	14	17	257	250	1925	1,998	719,280	993	-----	74	724	81.4		392,760	396	C	
	Plant						720	484					500			1,483,200	1,809	-----	136	820		81.5	811,000	448		42.2
19	1 2 S	M	C	TF	O		100[1]	67	2	14	17	257	---	----	2,137	213,700	-----	-----	---	-----	----		----------	-----	----	
	2 2 S	M	C	CH	C		240	161	4	12.5	13.25	325	---	1927	5,319	1,276,560	-----	-----	---	-----	----		----------	-----	----	
	3 2 S	M	C	CH	C		360	242	4	15.25	16	275	---	1927	1,513	544,680	-----	-----	---	-----	----		----------	-----	----	
	Plant						700	470					---			2,034,940	1,544	-----	---	1,318		48.5	661,930	429		53.7
411	1 2 S	M	C	TF	O		200[1]	134	4	14	17	257	140	1914	40	8,000	-----	-----	---	-----	----		----------	-----	CC & C	
	2 2 S	M	C	TF	O		120	81	2	14	17	257	90	1926	2,892	347,040	-----	-----	---	-----	----		----------	-----	CC & C	
	3 2 S	M	C	TF	O		360	242	6	14	17	257	240	1930	5,867	2,112,120	-----	-----	---	-----	----		----------	-----	C	
	Plant						680	457					470			2,467,160	1,406	-----	75	1,755		39.7	657,670	468		37.2
529	1 2 S	M	C	TF	O		100[1]	67	2	14	17	257	75	1922	1,062	106,200	85	-----	0	1,249	----		----------	-----	BC	
	2 2 S	M	C	TF	O		100[1]	67	2	14	17	257	75	1922	1,009	100,900	90	-----	0	1,122	----		----------	-----	BC	
	3 2 S	M	C	TF	O		120	81	2	14	17	257	90	1927	4,285	514,200	349	-----	0	1,473	----		----------	-----	BC	
	4 2 S	M	P	TF	O[H]		300	201	6	10.5	12.5	360	250	1931	4,591	1,377,300	526	-----	0	2,618	----		----------	-----	BC & F	
	Plant						620	416					490			2,098,600	1,050	-----	0	2,000		38.4	541,836	516		45.0
106	1 4 A	L		TF	O		600	403	6	17	25	200	---	1929	4,899	2,939,400	701	-----	---	4,190	71.4	71.4	1,409,410	2,012	----	53.0
1096	1 4 A	L		TF	O		600	403	6	16.25	23	225	513	1928	2,576	1,545,600	700	-----	200	2,208	69.9	69.9	725,880	1,037	BC&S&C	50.1
1094	1 4 A	L		TF	O		600	403	6	16.25	23	225	513	1928	1,969	1,181,400	400	-----	80	2,954	78.0	78.0	619,170	1,548	BC&S&C	49.7
644	1 2 S	M	C	TF	O		240	161	4	14	17	257	196	1931	7,503	1,800,720	1,032	-----	0	1,745	----		----------	-----		
	2 2 S	M	C	TF	O		360	242	6	14	17	257	300	1931	1,308	470,880	386	-----	0	1,220	----		----------	-----	BC	
	Plant						600	403					496			2,271,600	1,418	-----	0	1,602		59.8	912,400	643		58.6
61	1 4 M	L		TF	O		300	202	3	17.75	22	225	275	1928	4,289	1,286,700	-----	-----	---	-----	66.7		578,100	-----	----	
	2 4 M	L		TF	O		300	202	3	17.75	22	225	275	1928	6,372	1,911,600	-----	-----	---	-----	62.5		804,400	-----	----	
	Plant						600	404					550			3,198,300	880	-----	35	3,635		64.3	1,382,500	1,571		60.3
32	1 4 M	L		TF	O		600[P]	403	5	17.75	22	234[O]	572	1928	1,321	792,600	378	-----	60	2,097	77.9	77.9	414,600	1,096	C&F	65.1
103	1 2 S	M	C	TF	O		240	161	4	14	17	257	200	1927	3,753	900,720	------	-----	---	-----	51.2		309,300	-----		
	2 2 S	M	C	TF	O		200[1]	134	4	14	17	257	200	1920[S]	3,874	774,800	-----	-----	---	-----	57.6		299,300	-----	CC	
	3 2 S	M	C	TF	O		150[1]	101	3	14	17	257	125	1923	6,003	900,450	-----	-----	---	-----	46.8		281,940	-----		
	Plant						590	396					525			2,575,970	1,505	-----	---	1,712		51.4	890,540	592		39.9
862	1 2 S	M	C	TF	O		75[1]	50	2	12	15	300	60	1920	4	300					----		----------	-----		
	2 2 S	M	C	TF	O		75[1]	50	2	12	15	300	60	----	78	5,850	367	297	70	1,832	----		----------	-----	CC	
	3 2 S	M	C	TF	O		180	121	3	14	17	257	150	1925	3,702	666,360					----		----------	-----	&F	
	4 4 S	M	L	TF	O		288	173	3	16.5	24.5	180	225	1918[F]	5,159	1,331,022	633	378	236	2,103	----		----------	-----		
	Plant						588	394					495			2,003,532	1,000	675	306	2,004		47.9	644,280	644		45.9
102	1 2 S	M	C	TF	O		240	161	4	14	17	257	200	1928	765	183,600	-----	-----	---	-----	41.3		50,800	-----		
	2 2 S	M	C	TF	O		240	161	4	14	17	257	200	1928	915	219,600	------	-----	---	-----	42.4		62,530	-----	CC	
	3 2 S	M	C	TF	O		100[1]	67	2	14	17	257	75	1922[S]	662	66,200	-----	-----	---	-----	58.3		25,880	-----		
	Plant						580	389					475			469,400	292	-----	---	1,607		44.2	139,210	477		45.2
540	1 2 S	M	C	TF	O		360	242	6	14	17	257	300	1930	4,857	1,748,520	-----	-----	---	-----	38.6		453,400	-----		
	2 2 S	M	C	TF	O		180	121	3	14	17	257	120	1928	3,788	681,840	-----	-----	---	-----	47.0		214,900	-----	F	
	Plant						540	363					420			2,430,360	2,902	-----	---	837		40.9	668,300	230		41.7
246	1 2 S	M	C	TF	O		100[1]	67	2	14	17	257	60	1918	2,320	232,000	-----	-----	0	-----	----		----------	-----	C	
	2 2 S	M	C	TF	O		200[1]	134	4	14	17	257	170	1922	4,390	878,000	-----	-----	0	-----	----		----------	-----	F&	
	3 2 S	M	C	TF	O		240	161	4	14	17	257	200	1929	2,995	718,800	-----	-----	0	-----	----		----------	-----	S	
	Plant						540	362					430			1,828,800	1,395	-----	0	1,311		35.1	431,636	309		54.9
160	1 2 S	M	C	TF	O		120	81	2	14	17	257	90	1930	3,724	446,880	289	-----	20	1,546	-----		----------	-----		
	2 2 S	M	C	TF	O		180	121	3	14	17	257	150	1930	4,003	720,540	509	-----	44	1,415	-----		----------	-----		
	3 2 S	M	C	TF	O		240	161	4	14	17	257	200	1930	1,534	368,160	269	-----	24	1,368	-----		----------	-----	F	
	Plant						540	363					440			1,535,580	1,067	-----	88	1,439		----	----------	-----		51.7
101	1 2 S	M	C	TF	O		240	161	4	14	17	257	200	1926	5,899	1,415,760	-----	-----	---	-----	55.1		523,700	-----	BC	
	2 2 S	M	C	TF	O		150[1]	101	3	14	17	257	150	1919	1,419	212,850	-----	-----	---	-----	41.5		59,460	-----	&S	
	3 2 S	M	C	TF	O		150[1]	101	3	14	17	257	125	1923	2,762	414,300	-----	-----	---	-----	50.5		140,740	-----	&C	
	Plant						540	363					475			2,042,910	1,222	-----	---	1,672		52.8	723,900	592		42.6
772	1 4 A	L		TF	O		250	168	4	13.75	17.5	275	250	1916	551	137,750	100	-----	20	1,378	71.7		66,336	663	S&	
	2 4 A	L		TF	O		250	168	4	13.75	17.5	275	263	1916	690	172,500	100	-----	25	1,725	75.3		87,214	872	----	
	Plant						500	336					513			310,250	200	-----	45	1,551		73.7	153,550	768		45.7
501	1 2 S	M	C	TF	O		120	81	2	14	17	257	90	1925	4,371	524,520	496	-----	120	1,058	31.7		111,535	225	CC	
	2 2 S	M	C	TF	O		120	81	2	14	17	257	90	1925	4,287	514,440	563	-----	120	914	31.7		109,373	194	&F	
	3 2 S	M	C	TF	O		240	161	4	14	17	257	200	1929	2,908	697,920	439	-----	120	1,590	47.1		220,500	502	&S	
	Plant						480	323					380			1,736,880	1,498	-----	360	1,159		37.9	441,408	295		54.5
424	1 2 S	M	C	TF	O		240	161	4	14	17	257	200	1929	5,820	1,396,800	1,044	-----	70	1,338	42.3		396,955	380		
	2 2 S	M	C	TF	O		240	161	4	14	17	257	200	1929	3,116	747,600	702	-----	70	1,065	40.9		205,550	293	F	
	Plant						480	322					400			2,144,400	1,746	-----	140	1,229		41.8	602,505	345		45.0

TABLE III - INFORMATION COVERING LUBRICATING OIL (PAGE 6)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (See Notes)	SCAVENGING SYSTEM (See Notes)	TRUNK PISTON OR CROSSHEAD?	CYLINDERS OPEN OR CLOSED TO CRANKCASE ?	RATED B.H.P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	RATED HORSEPOWER HOURS IN REPORTED PERIOD	TOTAL GALLONS OF NEW LUBRICATING OIL USED	GALLONS OF NEW LUBRICATING OIL FOR CYLINDER LUBRICATION ONLY	GALLONS OF UNFIT LUBRICATING OIL DISCARDED	RATED H.P. HRS PER GALLON OF NEW LUBRICATING OIL	RUNNING ENGINE CAPACITY FACTOR (See Text)	RUNNING PLANT CAPACITY FACTOR (See Text)	GROSS OUTPUT - K.W. HRS.	GROSS K.W. HRS. PER GALLON OF NEW LUBRICATING OIL	LUBRICATING OIL TREATMENT (See Notes)	AVERAGE COST OF LUBRICATING OIL - CENTS PER GALLON
695	1	2	M	C	TP	O	165	111	3	12	15	360	150	1931	2,629	433,785	-----	-----	0	-----	----		----------	-----	BC	
	2	2	M	C	TP	O	165	111	3	12	15	360	150	1931	2,482	409,530	-----	-----	0	-----	----		----------	-----	&F	
	3	2	M	C	TP	O	120	81	2	14	17	257	90	1931	4,364	523,680	-----	-----	0	-----	----		----------	-----		
	Plant						450	303					390			1,366,995	1,447	-----	0	945		47.6	436,340	302		22.5
335	1	4	A	-	TP	O	250	168	4	13.75	17.5	257	219	1924	6,288	1,572,000	439	-----	63	3,582	34.9		368,100	838	S	
	2	4	A	-	TP	O	180	121	4	11.75	15	300	150	1920	2,472	444,960	144	-----	35	3,090	44.8		134,030	931		
	Plant						430	289					369			2,016,960	583	-----	98	3,460		37.1	502,130	861		60.0
247	1	2	M	C	TP	O	240	161	4	14	17	257	160	1928	2,900	696,000	-------	-----	0	-----	----		---------	-----	C	
	2	2	M	C	TP	O	100[i]	67	2	14	17	257	75	1920	5,850	585,000	-----	-----	0	-----	----		---------	-----	&F	
	3	2	M	C	TP	O	50[i]	34	1	14	17	257	40	1915	1,200	60,000	-----	-----	0	-----	----		---------	-----		
	Plant						390	262					275			1,341,000	712	-----	0	1,883		54.2	487,960	685		55.0
1129	1	2	M	C	TP	O	e75[i]	50	2	10.5	14	257	72	----- [t]	3,597	269,775	-----	-----	---	-----	29.2		52,500	-----		
	2	2	M	C	TP	O	e75[is]	50	2	10.5	14	257	72	----- [t]	30	2,250	-------	-----	---	-----	23.3		350	-----	None	
	3	4	M	-	TP	O	e80[is]	54	2	11.32	18	257	72	----- [t]	412	32,960	-----	-----	---	-----	34.6		7,700	-----		
	4	2	M	C	TP	O	150[i]	101	3	14	17	257	125	----	4,792	718,800	-----	-----	---	-----	29.5		142,900	-----		
	Plant						380	255					341			1,023,785	1,018	-----	---	1,004		29.6	203,450	200		45.0
105	1	2	M	C	TP	O	150[i]	101	3	14	17	257	125	1922	4,467	670,050	-----	-----	---	-----	54.3		245,000	-----		
	2	2	M	C	TP	O	120	81	2	14	17	257	75	1926	2,317	278,040	-----	-----	---	-----	30.9		57,920	-----	CC	
	3	2	M	C	TP	O	100[i]	67	2	14	17	257	75	1923	3,918	391,800	-----	-----	---	-----	40.9		107,300	-----		
	Plant						370	249					275			1,339,890	734	-----	---	1,825		45.5	410,220	559		47.6
1091	1	2	M	C	TP	O	180	121	3	14	17	257	150	1930	-----	----------	-----	-----	---	-----	----		---------	-----	----	
	2	2	M	C	TP	O	180	121	3	14	17	257	150	1929	-----	----------	-----	-----	---	-----	----		---------	-----	----	
	Plant						360	242					300			----------	237	-----	---	-----	----	----	---------	-----		55.0
161	1	2	M	C	TP	O	860	242	6	14	17	257	300	1929	-----	----------	1,346	-----	95	-----	----	----	1,003,500	745	----	49.6
152	1	2	M	C	TP	O	360	242	6	14	17	257	---	1925	58	20,880	10	-----	---	2,088	47.0	47.0	6,600	660	----	54.7
688	1	2	M	C	TP	O	50[i]	34	1	14	17	257	---	1923	944	47,200	-----	-----	---	-----	----		---------	-----	S&	
	2	2	M	C	TP	O	120	81	2	14	17	257	---	1926	6,068	728,160	-----	-----	---	-----	----		---------	-----	F	
	3	2	M	C	TP	O	180	121	3	14	17	257	---	1927	4,198	755,640	-----	-----	---	-----	----		---------	-----		
	Plant						350	236					---			1,531,000	650	-----	100	2,355		42.6	437,500	673		30.0
187	1	2	M	C	TP	O	140	94	2	14	17	300	111	1931	-----	----------	-----	-----	---	-----	----		---------	-----		
	2	2	M	C	TP	O	210	141	3	14	17	300	170	1931	-----	----------	-----	-----	---	-----	----		---------	-----	F	
	Plant						350	235					281			---------- ---	1,375	-----	62	-----		----	315,000	229		47.0
774	1	4	A	-	TP	O	165	111	4	11.75	15	277	135	1917	487	80,355	80	-----	10	1,005	76.0		41,040	513	S&	
	2	4	A	-	TP	O	180	121	4	11.75	15	300	135	1920	480	86,400	80	-----	20	1,080	69.4		40,302	504	C& -	
	Plant						345	232					270			166,755	160	-----	30	1,042		72.6	81,342	508		49.7
857	1	2	M	C	TP	O	180	121	3	14	17	257	150	1929	5,571	1,002,780	-----	-----	---	-----	47.6		321,200	-----	S&	
	2	2	M	C	TP	O	150[i]	101	3	14	17	257	---	1927	3,242	486,300	-----	-----	---	-----	32.8		107,504	-----	C&F	
	Plant						330	222					---			1,489,080	1,549	-----	---	962		42.8	428,704	277		37.5
1055	1	4	M	-	TP	O	320	215	4	15	18.5[d]	300	265	1932[u]	3,672	1,175,040	484	-----	0	2,428	29.6	29.6	233,385	482	S&F	63.2
285	1	2	M	C	TP	O	60	40	1	14	17	257	48	1927	2,555	153,300	-----	-----	---	-----	----		---------	-----		
	2	2	M	C	TP	O	120	81	2	14	17	257	90	1927	3,710	445,200	-----	-----	---	-----	----		---------	-----	F	
	3	2	M	C	TP	O	140	94	2	14	17	300	111	1931	2,615	366,100	-----	-----	---	-----	----		---------	-----		
	Plant						320	215					249			964,600	740	-----	355	1,304		37.9	245,000	331		55.5
27	1	2	M	C	TP	O	75[i]	50	2	12	15	300	---	1926	6,173	462,975	-----	-----	---	-----	----		---------	-----	----	
	2	2	M	C	CH	C	240	161	4	12.5	13.25	325	---	1926	2,611	626,640	-----	-----	---	-----	----		---------	-----	----	
	Plant						315	211					---			1,089,615	1,122	-----	---	971		28.8	210,470	188		52.7
382	1	4	M	-	TP	O	150	101	4	9.5	14	300	140	1927	4,458	668,700	-----	-----	---	-----	21.9		98,700	-----	BC	
	2	4	M	-	TP	O	150	101	4	9.5	14	300	---	1927	625	78,750	-----	-----	---	-----	14.3		7,600	-----		
	Plant						300	202					---			747,450	170	-----	---	4,397		21.2	106,300	825		38.5
658	1	2	M	C	TP	O	150[i]	101	3	14	17	257	125	1929	4,144	621,600	-----	-----	---	-----	27.0		112,800	-----	S&C	
	2	2	M	C	TP	O	120	81	2	14	17	257	90	1929	4,640	556,800	-----	-----	---	-----	26.2		98,300	-----	&F	
	Plant						270	162					215			1,178,400	1,588	-----	---	849		26.7	211,100	152		35.0
626	1	2	M	C	TP	O	120	81	2	14	17	257	95	1930	4,066	487,920	-----	-----	---	-----	66.0		216,000	-----		
	2	2	M	C	TP	O	120	81	2	14	17	257	95	1930	4,458	534,960	-----	-----	---	-----	60.8		219,300	-----	F	
	Plant						240	162					190			1,022,8[illegible]	598	-----	---	1,711		63.4	435,300	728		47.6
516	1	2	M	C	TP	O	120	81	2	14	17	257	94	1926	4,380[h]	525,600	-----	-----	---	-----	----		---------	-----		
	2	2	M	C	TP	O	120	81	2	14	17	257	94	1930	4,380[h]	525,600	-----	-----	---	-----	----		---------	-----	F	
	Plant						240	162					188			1,051,200	495	-----	10	2,124		22.8	160,600	324		32.0
169	1	4	M	-	TP	O	240	161	6	10.75	13.75	327	200	1928	1,834	440,160	195	-----	25	2,257	27.7	27.7	81,890	420	CC	49.7
984	1	4	A	-	TP	O	225	151	6	9.5	13.5	400	219	1928	405	91,125	37	-----	---	2,463	47.1	47.1	28,800	778	F	42.0
318	1	2	M	C	TP	O	25[i]	17	1	10	13	325	---	1918	-----	----------	-----	-----	---	-----	----		13,100	-----		
	2	2	M	C	TP	O	37,5[i]	25	1	12	15	300	---	1924	-----	----------	-----	-----	---	-----	----		44,310	-----	S	
	3	2	M	C	TP	O	50[i]	34	1	14	17	257	---	1920	-----	----------	-----	-----	---	-----	----		46,200	-----		
	4	2	M	C	CH	C	100	67	2	12.5	13.25	327	---[v]	1922[w]	-----	----------	-----	-----	---	-----	----		40,820	-----		
	Plant						212.5	143					---			----------	486	-----	30	-----		----	144,430	297		53.9
733	1	2	M	C	CH	C	100	67	2	12.5	13.25	327	60	1922	21	2,100	4.5	-----	0	467	67.4		951	212	None	
	2	2	M	C	TP	O	75[i]	50	2	12	15	300	60	1914	30	2,250	3.5	-----	0	642	57.2		864	247	F	
	Plant						175	117					120			4,350	8.0	-----	0	544		62.1	1,815	227		43.7
646	1	2	M	C	TP	O	120	81	2	14	17	257	90	1927	668	80,160	64	-----	15	1,253	13.4	13.4	7,220	113	BC&C	52.0

NOTES:

Injection System
- A - Air
- M - Mechanical

Scavenging System (2 Stroke Cycle Only)
- C - Crank Case Compression
- F - Attached Pump or Blower
- B - Independently Driven Blower

Lubricating Oil Treatment
- CC - Continuous Centrifuging
- BC - "Batch" Centrifuging
- C - Chemically
- F - Filtering
- S - Settling

LETTERED NOTES
- a - Fifth Day of 5th Month
- b - No Deduction for Motor Driven Scavenging Blower
- c - Twenty-First day of 9th month
- d - Twenty-Fifth day of 12th month
- e - Horizontal engine
- f - Rating revised from previous report by operator
- g - Date originally installed; started in this plant, first day of fourth month (provided start is Jan. 1st.)
- h - Estimated
- i - Semi Diesel
- j - Started twenty-ninth day of second month
- k - Started tenth day of 6th month
- l - Started before period began
- m - Date of original installation; installed here 1924
- n - With baffles
- o - Originally sold for 257 R.P.M.
- p - Supercharged to reproduce sea level conditions
- r - Date of original installation; installed in this plant in 1928
- s - Date of original installation; installed in this plant in 1930
- t - Second unit was discarded end of 11th month, and third unit started in its place
- u - Started first day of 5 month period
- v - All units belt drive, D.C. generators
- w - Date of original installation; date of installation in this plant unknown

TABLE IV - INFORMATION COVERING FUEL OIL (PAGE 1)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	GROSS OUTPUT - K.W. HRS.	FUEL OIL USED - GALLONS	GROSS K.W. HRS. PER GALLON OF FUEL OIL	RUNNING ENGINE CAPACITY FACTOR - (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	NATURE OF FUEL OIL USED - (SEE NOTES)	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	IS FUEL CENTRIFUGED?	PLANT ALTITUDE - FEET ABOVE SEA LEVEL	PURPOSE FOR WHICH JACKET WATER HEAT IS UTILIZED (SEE NOTES)	PURPOSE FOR WHICH EXHAUST HEAT IS UTILIZED (SEE NOTES)
43	1 4 A	-	-	-	500	336	3	22	29.5	150	375	1915	293	67,792	7,100	9.55	68.9							
	2 4 A	-	-	-	500	336	3	22	29.5	150	375	1916	284	68,472	7,196	9.52	71.8							
	3 4 A	-	-	-	1,000	671	6	20.5	36	150	925	1922	676	296,550	33,518	8.85	65.2							
	4 4 A	-	-	-	1,000	671	6	20.5	36	150	925	1925	109	50,280	5,403	9.31	68.7			24° + A.P.I. 0.7% S						
	5 4 A	-	-	-	520	349	4	19	24.5	200	500	1919	471	126,210	14,458	8.73	76.7							
	6 4 A	-	-	-	520	349	4	19	24.5	200	500	1920	423	116,310	13,235	8.79	78.6							
	7 2 A	-	-	-	3,750	2,517	6	30	42	124	3,750	1928	2,569	6,559,500[b]	636,741	10.30[b]	101.4							
	8 2 A	-	-	-	3,750	2,517	6	30	42	124	3,750	1929	2,569	14,407,800[b]	1,148,701	12.88[b]	83.0			19° A.P.I., Asph. after ½ Hour @ 400° C-24.6%; Ash-0.22% BS - 0.7%; W - 0.1%						
	9 2 A	-	-	-	4,100	2,753	6	30	42	124	3,750	1932[a]	4,972	10,423,800[b]	772,682	13.49[b]	76.2							
	Plant				16,640	10,499					14,850			32,116,114[c]	2,636,034	12.17[c]		83.3			3.48	No	2,500	N	N
62	1 2 A	F	-	-	360	242	4	16.25	23	225	312	1921	1,841	288,440	28,433	10.14	64.8							
	2 2 A	F	-	-	750	504	4	17	27	180	740	1923	2,249	575,630	68,626	8.36	50.7							
	3 2 A	F	-	-	750	504	4	17	27	180	740	1924	1,771	442,440	51,685	8.56	49.6			28°- 32° A.P.I; 32° S.U.@ 100°F; S-0.27%; CC-0.06%; Trace Ash and BS & W; partly by Tank Truck						
	4 2 A	F	-	-	1,150	772	6	17	27	180	1,000	1927	3,434	1,593,100	156,667	10.17	60.1							
	5 2 A	F	-	-	1,150	772	6	17	27	180	1,000	1927	3,698	1,716,210	167,662	10.24	60.1							
	6 2 A	F	-	-	1,500	1,007	8	17	27	180	1,350	1929	6,168	4,316,500[b]	401,634	10.74[b]	69.4							
	7 2 M	B	-	-	3,300	2,216	10	19.5	27	240	2,960	1932[c]	653	496,900[b]	42,006	11.83[b]	34.3							
	Plant				8,960	6,017					8,102			9,426,420[b]	916,713	10.27[b]		60.3			4.48	No	23	N	N
52	1 4 A	-	-	-	830	557	4	23	32	164	700	1928	3,507	1,374,500	122,953	11.17	70.4							
	2 4 A	-	-	-	1,250	840	6	23	32	164	1,060	1928	4,569	3,074,600	271,051	11.34	80.1			25.6° A.P.I., SU-43"@ 100° F, S-0.6% CC-0.3%, Ash-trace; BS & W-0.6%						(
	3 4 A	-	-	-	1,250	840	6	23	32	164	1,060	1928	4,561	3,075,300	271,739	11.33	80.3							
	4 4 A	-	-	-	1,250	840	6	23	32	164	1,060	1930	2,657	1,731,100	153,646	11.27	77.5							
	5 4 A	-	-	-	2,865	1,924	8	29	48	120	2,500	1933[d]	20	22,700	1,970	11.52	59.0							
	Plant				7,445	5,001					6,380			9,281,200	821,359	11.30		78.1			4.41	No	30	N	B-BF
91	1 4 M	-	-	-	600	403	6	17	24	225	500	1927	2,374	544,000	--------	-----	56.9							
	2 4 M	-	-	-	600	403	6	17	24	225	500	1927	3,690	920,100	--------	-----	61.8			22° A.P.I.						
	3 4 M	-	-	-	1,125	755	6	22	30	180	1,000	1927	4,356	1,776,500	--------	-----	54.1							
	4 4 M	-	-	-	1,125	755	6	22	30	180	1,000	1928	3,172	1,342,500	--------	-----	56.0							
	5 4 A	-	-	-	1,800	1,208	6	24	32	225	1,595	1930	3,120	2,357,000	--------	-----	62.6							
	Plant				5,250	3,524					4,595			6,942,100	610,412	11.37		58.4			3.12	No	6,000	N	F
73	1 2 A	F	-	-	1,250	840	5	20.75	26	180	1,063	1928	5,261	2,875,700	279,926	10.28	65.1							
	2 2 A	F	-	-	1,250	840	5	20.75	26	180	1,063	1928	5,614	3,140,500	308,035	10.29	66.6			10°-14° A.P.I.						
	3 2 A	F	-	-	1,250	840	5	20.75	26	180	1,063	1924	2,444	1,356,900	135,375	10.02	66.1							
	4 2 A	F	-	-	1,250	840	5	20.75	26	180	1,063	1926	1,938	1,136,400	113,034	10.05	69.8							
	Plant				5,000	3,360					4,252			8,509,500	833,369	10.21		66.4			1.22	No	1,000	F	S
92	1 2 A	F	-	-	2,400	1,612	8	21	24	225	2,000	1930	3,170	3,295,000	--------	-----	64.5							
	2 2 A	F	-	-	1,250	840	5	20.75	26	180	1,125	1928	2,580	1,408,600	--------	-----	65.0			22° A.P.I.						
	3 2 A	F	-	-	1,250	840	5	20.75	26	180	1,125	1928	4,883	3,053,600	--------	-----	74.4							
	Plant				4,900	3,292					4,250			7,757,200	750,631	10.33		68.2			2.04	Yes	2,580	N	F
45	1 4 A	-	-	-	600	403	6	16.5	24	200	500	1923	1,081	188,900	19,168	9.85	43.4							
	2 4 A	-	-	-	600	403	6	16.5	24	200	500	1923	449	86,075	9,738	8.84	47.6							
	3 4 A	-	-	-	750	504	4	23	32	150	625	1923	1,446	393,000	42,460	9.26	54.0			25% {21° A.P.I.; SU-65"@ 122°F S-1.47%; CC-7.74% Ash-.036%; Bs & W-2.5%						
	4 4 A	-	-	-	1,150	772	6	23	32	150	1,000	1926	5,600	2,780,425	261,180	10.65	64.3							
	5 4 A	-	-	-	1,150	772	6	23	32	150	1,000	1926	4,296	2,194,975	194,839	10.93	64.2			75% {32°-36° A.P.I.; SU-43"@ 26°C; S-0.5%; CC-0.02%; BS & W-trace						
	Plant				4,250	2,854					3,625			5,677,375	527,365	10.58		62.1			3.87	No	50	N	L
54	1 4 A	-	-	-	600	403	6	17	25	200	450			----------	--------	-----	----			All oil in tank wagons						
	2 4 A	-	-	-	600	403	6	17	25	200	450			----------	--------	-----	----									
	3 4 A	-	-	-	600	403	6	17	25	200	450	1925		----------	--------	-----	----			27.2° A.P.I.; SU-280"@ 60°F; S-0.7%; BS & W-2.0% (EST.) Crude oil thru pipe line from oil field						
	4 4 A	-	-	-	600	403	6	17	25	200	450	1926		----------	--------	-----	----									
	5 4 A	-	-	-	600	403	6	17	25	200	450			----------	--------	-----	----									
	6 4 A	-	-	-	600	403	6	17	25	200	450			----------	--------	-----	----									
	7 4 A	-	-	-	600	403	6	17	25	200	450			----------	--------	-----	----									
	Plant				4,200	2,821					3,150		40,464	15,507,500	1,367,982	11.33		95.1			1.38	Yes	400	N	N
130	1 4 A	-	-	-	600	403	6	16.25	23	225	513	1924	4,720	1,309,700	113,696	11.52	68.8							
	2 4 A	-	-	-	600	403	6	17	24	200	513	1926	3,242	851,100	73,820	11.52	65.2							
	3 4 A	-	-	-	1,200	806	6	20	24	300	1,062	1929	2,168	1,211,700	112,570	10.77	69.4			16°-30° A.P.I. S - 0.8%						
	4 4 A	-	-	-	1,200	806	6	20	24	300	1,062	1930	2,094	1,184,300	107,517	11.02	70.2							
	Plant				3,600	2,418					3,150			4,556,800	407,603	11.17		68.6			4.02	No	750	N	L
157	1 2 A	F	-	-	1,760	1,182	8	17	23	257	1,500	1930	2,063	2,000,000	182,880	10.94	82.0							
	2 2 A	F	-	-	1,760	1,182	8	17	23	257	1,500	1930	2,497	2,438,850	225,350	10.82	82.5			24°-26° A.P.I BS & W - 0.25%						
	Plant				3,520	2,364					3,000			4,438,850	408,230	10.87		82.3			4.16	No	1,016	F	F
2	1 4 A	-	-	-	1,150	772	6	23	29.5	166.7	1,000	1925	3,743	2,827,090	267,307	10.57	98.0							
	2 4 A	-	-	-	1,150	772	6	23	29.5	166.7	1,000	1925	3,954	2,989,580	276,080	10.83	97.9			27° A.P.I.; S.U.-40"@ 100°F S-0.5%; CC-2%; Ash-0.04%						
	3 4 A	-	-	-	1,150	772	6	23	29.5	166.7	1,000	1925	4,091	3,084,590	298,401	10.33	97.7							
	Plant				3,450	2,316					3,000			8,901,260	841,788	10.58		97.8			2.33	No	735	N	L
164	1 4 M	-	-	-	840	564	6	19.5	24	214	1,000	1926	7,259	3,314,100	--------	-----	81.0							
	2 4 M	-	-	-	840	564	6	19.5	24	214	1,000	1926	7,289	3,358,300	--------	-----	74.4			27° A.P.I.; SU 47.2"@ 100°F S-0.481%; Ash - 0.2103% Bs & W; 1.265%; Thru Pipe Line from Refinery						
	3 4 M	-	-	-	840	564	6	19.5	24	214	1,000	1926	7,537	3,468,800	--------	-----	81.5							
	4 4 M	-	-	-	840	564	6	19.5	24	214	1,000	1926	7,737	3,628,400	--------	-----	83.2							
	Plant				3,360	2,256					4,000			13,463,600	1,051,449	12.80		80.0			2.59	No	30	N	N
3	1 4 M	-	-	-	400	269	6	14.5	18	277	344	1923	651	----------	--------	-----	----			22.8° A.P.I.; S-0.18% BS & W - 0.04%						
	2 4 A	-	-	-	800	537	8	17	24	200	675	1924	4,869	----------	--------	-----	----									
	3 4 A	-	-	-	800	537	8	17	23	200	675	1926	3,478	----------	--------	-----	----									
	4 4 A	-	-	-	1,125	755	6	22	30	180	938	1927	786	----------	--------	-----	----									
	Plant				3,125	2,098					2,632			2,384,995	241,174	9.89		45.4			4.60	No	80	N	N
720	1 2 M	F	-	-	840	564	6	16	20	257	700	1928	3,358	1,000,500	--------	-----	63.1							
	2 2 M	F	-	-	840	564	6	16	20	257	700	1928	4,207	878,300	--------	-----	57.0			28-32° A.P.I. BS & W 1.0%						
	3 2 E	F	-	-	720	484	6	16	20	257	600	1927	3,478	862,900	--------	-----	61.3							
	4 4 M	-	-	-	300	202	3	17.75	22	225	250	1926	2,700	293,400	--------	-----	53.8							
	5 4 M	-	-	-	360[e]	255	2	22.5	36	150	250	1922	162	18,000	--------	-----	43.6							
	Plant				3,080	2,069					2,500			3,053,100	445,892	6.85		46.8			2.92	No	4,850	N	N
77	1 2 M	B	-	-	3,000	2,014	10	19.5	27	240	2,812	1931	6,046	5,208,800[b]	374,246	13.92[b]	42.8	42.8		{27.7° A.P.I.; SU 58"@ 100°F S - 0.38%; CC 3.25% Ash - 0.01%; BS & W 0.75%	4.52	Yes	4,000	N	N
109	1 2 A	F	-	-	675	453	4	16.75	22	240	500	1927	1,480	297,800	35,342	8.43	44.3							
	2 2 A	F	-	-	1,125	755	8	14.875	21	257	975	1929	1,108	399,360	47,470	8.41	47.8			24-26° A.P.I.; S-0.5% Ash- less than 1.0% BS & W - 0.2%						
	3 2 A	F	-	-	1,125	755	8	14.875	21	257	975	1931	651	278,960	32,686	8.44	57.9							
	Plant				2,925	1,963					2,450			975,120	115,498	8.43		49.2			5.69	No	4,300	N	N
7	1 4 M	-	-	-	360[f]	236	6	11.5	16	277	375	1925	1,875	259,100	--------	-----	58.8							
	2 4 M	-	-	-	360[f]	235	6	11.5	16	277	375	1925	1,352	174,000	--------	-----	54.8			36-40° A.P.I.; SU-44.4" @ 100°F; S-0.23% CC - 0.016%; Ash 0.012% BS & W 1.0%						
	3 4 M	-	-	-	360[f]	235	6	11.5	16	277	375	1925	1,885	260,800	--------	-----	58.9							
	4 4 M	-	-	-	750	504	6	16	22	240	750	1927	4,205	1,137,800	--------	-----	53.7							
	5 4 M	-	-	-	930	624	6	18	22	257	750	1930	4,048	1,552,300	--------	-----	61.4							
	Plant				2,730	1,833					2,625			3,383,400	264,533	12.78		57.9			3.27	Yes	1,230	F	N

TABLE IV - INFORMATION COVERING FUEL OIL (PAGE 2)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	GROSS OUTPUT - K.W. HRS.	FUEL OIL USED - GALLONS	GROSS K.W. HRS. PER GALLON OF FUEL OIL	RUNNING ENGINE CAPACITY FACTOR -(SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	NATURE OF FUEL OIL USED - (SEE NOTES)	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	IS FUEL CENTRIFUGED?	PLANT ALTITUDE - FEET ABOVE SEA LEVEL	PURPOSE FOR WHICH JACKET WATER HEAT IS UTILIZED (SEE NOTES)	PURPOSE FOR WHICH EXHAUST HEAT IS UTILIZED (SEE NOTES)
732	1|4|A	-	250	168	4	13.75	17.5	257	200	1915	0												
	2|4|A	-	250	168	4	13.75	17.5	257	200	1916	1,875												
	3|4|A	-	520	349	4	19	24.5	200	500	1921	3,700												
	4|4|A	-	750	504	4	23	32	150	625	1923	4,800												
	5|4|A	-	750	504	4	23	32	150	625	1925	6,000												
	Plant		2,520	1,693					2,150				3,550,900	361,125	9.83		50.4						
978	1|2|M	P	840	564	6	16	20	257	700	1931	1,509												
	2|2|M	P	840	564	6	16	20	257	700	1931	1,327												
	3|2|M	P	840	564	6	16	20	257	700	1931	1,769												
	Plant		2,520	1,692					2,100				2,274,700	194,103	11.72		87.6			3.57	--	---	-	-
908	1|2|A	P	1,250	840	5	20.75	26	180	1,100	1925	6,152		3,604,300						10-14° A.P.I; S.U. less than 100" @ 100° F; S.A. less than 0.5%					
	2|2|A	P	1,250	840	5	20.75	26	180	1,100	1925	6,283		3,552,800						B. S. & W. Trace					
	Plant		2,500	1,680					2,200				7,157,100	710,360	10.08		68.5			1.71	No	---	N	N
93	1|2|M	P	700	470	5	16	20	257	600	1928	5,680		1,281,100				48.0		26-28° A.P.I.					
	2|2|M	P	700	470	5	16	20	257	600	1928	6,499		1,569,300				51.3							
	3|2|M	P	560	376	4	16	20	257	470	1928	4,104		838,200				54.3							
	4|4|A	-	520	349	4	19	24.5	200	446	1914[g]	3,031		636,600				60.2							
	Plant		2,480	1,665					2,116				4,325,200	497,280	8.70		52.0			3.09	No	15	N	N
111	1|4|A	-	900	604	8	17	24	225	770	1928	5,500[h]		1,444,400						18-20° A.P.I; S.U.-65" @ 77° F; B.S. & W. - Trace					
	2|4|A	-	900	604	8	17	24	225	770	1928	5,500[h]		1,521,500											
	3|4|A	-	675	453	6	17	24	225	580	1928	7,000[h]		1,564,000											
	Plant		2,475	1,661					2,120				4,529,900	385,327	11.75		----			3.23	No	200	N	B
1149	1|2|M	P	1,200	806	8	16	20	257	1,050	1932	-------													
	2|2|M	P	1,200	806	8	16	20	257	1,041	1932	-------													
	Plant		2,400	1,612					2,091				617,470	51,437	12.00		----			3.68	No	---	B	N
60	1|4|M	-	800	537	8	19.5	22	200	675	1924	3,748		515,500				25.6							
	2|4|M	-	800	537	8	19.5	22	200	675	1924	1,868		240,200				24.0							
	3|4|M	-	800	537	8	19.5	22	200	625	1924	2,897		379,500				24.4							
	Plant		2,400	1,611					2,025				1,135,200	162,072	7.00		24.8			4.69	No	4,000	N	N
723	1|2|M	C	300[i]	202	6	14	17	257	250	1925	263		39,640	4,135	9.59		74.6		32-36° A.P.I.					
	2|2|M	C	300[i]	202	6	14	17	257	250	1925	356		49,660	5,135	9.67		69.1							
	3|2|M	P	720	484	6	16	20	257	600	1927	1,092		343,300	34,690	9.90		65.0							
	4|2|M	P	1,050	705	7	16	20	257	910	1931	2,125		1,013,100	87,295	11.61		67.7							
	Plant		2,870	1,593					2,010				1,445,700	131,255	11.01		67.2			4.31	No	1,806	N	N
41	1|4|A	-	520	349	3	22	29.5	164	400	1922	3,280		689,590	70,240	9.82		60.2		20° A.P.I; S.U.-47" @ 100°F; S.- 1.3%; C. C.-0.15%					
	2|4|A	-	700	470	4	22	29.5	164	500	1923	2,865		766,200	73,080	10.47		56.9							
	3|4|A	-	1,150	772	6	23	29.5	164	900	1928	4,191		2,292,300	205,165	11.17		70.8							
	Plant		2,370	1,591					1,800				3,748,090	348,485	10.75		65.5			4.10	No	20	N	B
79	1|4|A	-	225	151	3	16	24	164	198	1911	328		25,840	3,179	8.13		53.0		25° A.P.I; S.U.-64" @ 100°F; S-0.404%; C.C.-1.127% Ash-trace; Water-trace					
	2|4|A	-	225	151	3	16	24	164	198	1912	965		79,560	8,489	9.38		54.6							
	3|4|A	-	600	403	6	16.25	23	225	512	1929	4,754		1,269,900	103,440	12.27		66.3							
	4|4|A	-	520	349	4	19	24.5	200	438	1923	3,218		776,900	68,583	11.32		69.2							
	5|4|A	-	600	403	6	16.25	23	225	512	1925	4,888		1,304,200	107,859	12.09		66.2							
	Plant		2,170	1,457					1,858				3,456,400	291,550	11.86		66.4			2.49	No	360	N	N
5	1|2|M	P	720	484	6	16	20	257	-----	1926	1,800													
	2|2|M	P	720	484	6	16	20	257	-----	1927	1,829													
	3|2|M	P	720	484	6	16	20	257	-----	1927	2,337													
	Plant		2,160	1,452					-----				2,721,770	286,583	9.50		94.4			3.64	--	---	-	-
6	1|2|M	C	300[i]	202	6	14	17	257	-----	1926	33													
	2|4|A	-	600	403	6	17	25	200	-----	1926	1,303													
	3|4|A	-	600	403	6	17	25	200	-----	1927	1,506													
	4|4|A	-	600	403	6	17	25	200	-----	1928	1,642													
	Plant		2,100	1,411					-----				1,761,200	148,265	11.81		97.4			3.94	--	---	-	-
68	1|2|M	C	240	161	4	14	17	257	200	1925	2,467		216,200	24,540	8.81		54.4							
	2|2|M	C	360	242	6	14	17	257	300	1925	3,622		479,600	54,080	8.87		54.7							
	3|2|M	P	560	376	4	16	20	257	470	1928	4,623		1,189,000	120,180	9.89		68.4							
	4|2|M	P	900	604	6	16	20	257	774	1930	3,243		1,294,700	105,060	12.32		66.1							
	Plant		2,060	1,383					1,744				3,179,500	303,860	10.46		63.9			3.60	No	832	N	N
85	1|4|A	-	600	403	6	16.25	23	225	520	1929	4,758		1,105,800	100,320	11.02		57.6		30° A.P.I; S-0.5%; Ash-trace; B.S. & W. -trace; Delivered in Tank Trucks					
	2|4|A	-	400	269	4	16.25	23	225	340	1927	3,545		477,200	47,760	9.99		50.1							
	3|4|M	-	1,000	671	8	17.5	25	225	875	1932	845		204,500	18,890	10.83		36.0							
	Plant		2,000	1,343					1,735				1,787,500	166,970	10.71		62.0			5.00	No	12	N	BF
215	1|2|M	P	980	658	7	16	20	257	845	1930	1,335		741,800	-------	-----		84.5		33.5° A.P.I; S-0.22%; Ash-0.3%					
	2|2|M	P	980	658	7	16	20	257	845	1930	823		453,200	-------	-----		83.7							
	Plant		1,960	1,316					1,690				1,195,000	86,880	13.75		84.2			5.14	No	2,150	N	N
736	1|2|A	P	1,125	755	6	17	27	180	900	1924	1,251		591,300	-------	-----		62.6							
	2|4|A	-	400	269	4	16.5	24	200	336	1922	2,930		622,200	-------	-----		79.0		24°-26° A.P.I.					
	3|4|A	-	400	269	4	16.5	24	200	336	1922	2,528		552,000	-------	-----		81.2							
	Plant		1,925	1,293					1,572				1,765,500	181,929	9.71		73.2			2.74	No	200	N	N
837	1|4|A	-	750	504	4	23	32	150	625	1922	7,210		1,732,600	203,360	8.52		47.7							
	2|4|A	-	450	302	6	16	24	164	413	1918	1,313		{ 495,149 }	{ 68,453 }	{ 7.23 }		{ 53.4 }							
	3|4|A	-	225	151	3	16	24	164	200	1904	1,578													
	4|4|A	-	225	151	3	16	24	164	200	1904	617													
	5|4|A	-	225	151	3	16	24	164	187	1906	1,120													
	Plant		1,875	1,259					1,625				2,227,749	271,813	8.19		48.9			2.49	No	5	N	F
1033	1|4|A	-	500	336	4	18.875	28.375	164	350	----	170		31,520	-------	----		55.2		{ 22° + A.P.I. }					
	2|4|A	-	500	336	4	18.875	28.375	164	350	----	734		182,130	-------	----		73.9							
	3|4|A	-	500	336	4	18.875	28.375	164	350	----	1,385		284,710	-------	----		61.2							
	4|4|A	-	350	235	4	16.25	21	225	250	----	7		660	-------	----		40.1		26° + A.P.I.					
	Plant		1,850	1,243					1,300				499,020	52,472	9.51		64.8		S- less than 0.75%	5.42	No	3,800	N	N
158	1|2|A	P	1,760	1,182	8	17	23	257	1,500	1930	1,495		577,178	75,930	7.60		32.7	32.7	18°-22° A.P.I; B.S.&W.-0.5%;Four-0°F	5.67	No	1,612	F	F
212	1|4|A	-	875	588	8	17.5	24	200	671	1929	258		108,300	9,596	11.29		71.4		33° A.P.I-S.U.- 42" @ 210°F					
	2|4|A	-	875	588	8	17.5	24	200	671	1929	258		109,500	9,864	11.10		72.2		S - 0.08%; B.S.&W.-Trace;					
	Plant		1,750	1,176									217,800	19,460	11.18		71.8		Delivered by tank truck	3.60	No	585	N	N
722	1|2|M	C	200[i]	134	4	14	17	257	170	1923	317		32,260	3,715	8.68		75.9							
	2|2|M	C	300[i]	202	6	14	17	257	250	1923	316		52,840	5,492	9.62		82.8		32°-36° A.P.I.					
	3|2|M	P	840	564	6	16	20	257	700	1929	2,242		743,700	73,163	10.16		58.8							
	4|4|A	-	365	245	4	16.25	21	225	330	1916	847		156,090	14,719	10.60		75.2							
	Plant		1,705	1,145					1,450				984,890	97,089	10.14		62.4			4.68	No	1,285	N	N

TABLE IV - INFORMATION COVERING FUEL OIL (PAGE 3)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	GROSS OUTPUT - K.W. HRS.	FUEL OIL USED - GALLONS	GROSS K.W. HRS. PER GALLON OF FUEL OIL	RUNNING ENGINE CAPACITY FACTOR - (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	NATURE OF FUEL OIL USED - (SEE NOTES)	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	IS FUEL CENTRIFUGED?	PLANT ALTITUDE - FEET ABOVE SEA LEVEL	PURPOSE FOR WHICH JACKET WATER HEAT IS UTILIZED (SEE NOTES)	PURPOSE FOR WHICH EXHAUST HEAT IS UTILIZED (SEE NOTES)
735	1 2 M P				840	564	6	16	20	257	700	1928	3,342	1,368,600	--------	-----	72.6		34°-36° A.P.I.					
	2 2 M P				840	564	6	16	20	257	700	1928	5,885	2,254,800	--------	-----	68.0							
	Plant				1,680	1,128					1,400			3,623,400	373,513	9.70		69.7						
18	1 2 M C				450	302	5	15.25	16	275	-----	1922	386	---------	-------	-----	----		----------					
	2 4 A -				600	403	6	17	25	200	-----	1926	4,569	---------	-------	-----	----		----------					
	3 4 A -				600	403	6	17	25	200	-----	1928	4,789	---------	-------	-----	----		----------					
	Plant				1,650	1,108								2,422,980	234,664	10.33		62.4		3.74	--	---	-	-
88	1 4 A -				285	191	3	16.5	24	200	240	1920	5,148	564,640	54,150	10.43	57.4		32°-36° A.P.I; S- 0.35%					
	2 4 A -				285	191	3	16.5	24	200	240	1920	3,313	322,494	30,700	8.33	50.9		Free Carbon-Trace					
	3 4 A -				300	202	3	16.5	24	200	---	1925	2,370	348,800	31,470	11.08	72.8		Ash - 0.01%					
	4 2 A P				750	504	5	14.75	21	257	650	1932	4,412	1,293,800	132,829	9.74	58.2							
	Plant				1,620	1,088					---			2,529,724	257,149	9.84		58.6		2.31	No	---	M	M
8	1 4 A -				400	269	4	16.5	24	200	---	1921	4,864	557,850	--------	-----	42.7		28°-30° A.P.I.					
	2 4 A -				560	376	3	22.5	22.5	225	---	1922	186	34,880	--------	-----	50.0							
	3 4 A -				600	403	6	17	25	200	---	1926	4,050	1,060,250	--------	-----	65.0							
	Plant				1,560	1,048								1,652,980	174,067	9.50		55.0						
1154	1 4 A -				750	504	6	17.5	24.5	225	560	1931	4,464	1,042,900	105,145	9.92	46.4		28° A.P.I.	3.04	No	1,160	SF	B
)	2 4 A -				750	504	6	17.5	24.5	225	560	1931	4,403	1,030,600	107,298	9.61	46.5							
	Plant				1,500	1,008					1,120			2,073,500	212,443	9.76		46.5		5.84	No	1,450	M	B
132	1 4 A -				375	252	3	17.5	24.5	225	319	1929	5,031	753,800	70,640	10.66	59.5		34° A.P.I; S.U. 350" @ 100°F;					
	2 4 A -				500	336	4	17.5	24.5	225	432	1929	2,855	690,300	58,589	11.78	72.0		S. by Volume less than 0.5%					
	3 4 A -				625	420	5	17.5	24.5	225	538	1929	1,005	294,800	25,512	11.56	69.9		C.C.-Trace; Ash less than 0.5%					
	Plant				1,500	1,008					1,289			1,738,900	154,741	11.24		65.7	B.S. & W. less than 1.0%	3.56	No	1,100	M	B
289	1 4 A -				250	168	4	13.75	17.5	257	210	1920	5,156	602,120	52,374	11.49	69.6		28.2° A.P.I.					
	2 4 A -				250	168	4	13.75	17.5	257	210	1920	5,086	584,490	51,767	11.30	68.5		S.U. - 75" @ 100°F					
	3 4 A -				365	245	4	16.25	21	225	300	1915	3,668	681,370	49,433	11.76	64.7							
	4 4 A -				600	403	6	16.25	23	225	512	1927	2,901	921,400	75,386	12.22	78.8							
	Plant				1,465	984					1,232			2,689,380	228,960	11.75		71.1		4.17	No	1,670	F	B
496	1 4 A -				400	269	4	16.5	24.5	200	340	1925	2,514	354,475	32,068	11.06	52.6		32°-36° A.P.I.					
	2 4 A -				300	201	3	16.5	24.5	200	250	1925	5,588	464,975	47,720	9.74	41.4		S - Less than 0.5%					
	3 4 A -				750	504	6	17.5	24.5	225	650	1928	1,696	387,575	38,252	10.13	45.4							
	Plant				1,450	974					1,240			1,207,025	118,030	10.22		45.5		4.02	No	1,200	-	M
70	1 2 M P				560	376	4	16	20	257	470	1928	4,357	894,185	--------	-----	54.6							
	2 2 M P				560	376	4	16	20	257	470	1928	4,457	891,270	--------	-----	53.2		32°-36° A.P.I.					
	3 2 M C				300[1]	202	6	14	17	257	250	1923	801	103,345	--------	-----	64.0							
	Plant				1,420	954					1,190			1,888,800	205,145	9.21		54.3		3.03	No	1,330	M	M
198	1 2 M P				1,400	941	8	16	20	300	1,392	1932[j]	2,791	2,195,580	190,523	11.52	83.6	83.6	31° A.P.I; S.U. 69" @ 100°F;S-0.56%; C.C.-0.86%; Ash Trace; B.S. & W.-Trace	3.63	No	1,109	M	M
163	1 4 M -				400	269	4	17.75	22	225	343	1924	80	8,300	763	10.88	51.4		34° A.P.I; S.U.-48" @ 100°F;S-0.32%;					
	2 4 M -				400	269	4	17.75	22	225	343	1927	696	92,290	10,503	8.96	49.3		Ash-0.0019%; B.S. & W.-Trace					
	3 4 M -				675	453	6	17.75	22	225	625	1929	193	41,000	4,775	8.59	52.7		By Pipe Line from Refinery					
	Plant				1,400	941					1,311			141,590	15,841	8.94		50.4		0.97	No	1,080	M	M
154	1 4 A -				600	403	6	17	24	200	----	1927	2,121	---------	-------	-----	----		----------					
	2 4 A -				400	269	4	17	24	200	----	1926	1,586	---------	-------	-----	----		----------					
	3 4 A -				400	269	4	17	24	200	----	1925	2,277	---------	-------	-----	----		----------					
	Plant				1,400	941								1,548,990	123,117	12.58		81.9		3.47	--	---	-	-
888	1 4 A -				300	202	3	17	24	200	250	1925	574	46,590	--------	-----	40.1		18.9° A.P.I; C.C.-0.1%					
	2 4 A -				400	269	4	17	24	200	375	1925	1,929	281,300	--------	-----	54.2		B.S. & W - 0.1%					
	3 4 A -				675	453	6	17	24	225	575	1931	8,522	1,908,280	--------	-----	49.4		Delivered in Oil Tanker					
	Plant				1,375	924					1,200			2,236,100	226,824	9.86		49.8		4.02	No	10	M	M
517	1 4 M -				750	504	6	17	25	225	625	1932[k]	4,487	578,330	62,816	9.21	25.6		28°-30° A.P.I; S.U.-70" @ 100°F					
	2 4 A -				625	420	5	17.5	25	225	625	1930	4,273	551,590	63,165	8.74	30.8		S-0.5%; C.C.-0.5%					
	Plant				1,375	924					1,250			1,129,920	125,981	8.97		27.9		3.74	No	1,100	M	B
1016	1 4 A -				365	245	4	16.25	21	225	312	1922	8,170	1,085,430	--------	-----	54.2		----------					
	2 4 A -				600	403	6	17	25	257	150	1924	2,020	201,100	--------	----	74.3		----------					
	3 2 A P				800	538	6	14.75	18	277	650	1926	906	297,100	--------	----	60.9		----------					
	Plant				1,365	917					1,112			1,583,630	161,088	9.83		57.4		5.08	No	5,600	M	M
886	1 2 M C				120	81	2	14	17	257	85	1927	308	---------	-------	----	----		----------					
	2 2 M C				200[1]	134	4	14	17	257	170	1925	2,489	---------	-------	----	----		----------					
	3 2 M C				360	242	6	14	17	257	300	1929	3,457	---------	-------	----	----		----------					
	4 4 A -				625	420	5	17.5	25	225	535	1931	2,919	---------	-------	----	----		----------					
	Plant				1,305	877					1,090			951,088	131,425	7.24		39.5		4.74	No	2,970	M	M
13	1 4 A -				275	185	4	13.5	19.5	257	219	1923	6,762	778,500	75,005	10.38	62.2		32°-36° A.P.I; S.U.-41" @ 90°F					
	2 4 A -				200	134	3	13.5	19.5	257	156	1923	2,994	242,100	23,200	10.43	60.5		S-Less than 1%; C.C.-Less					
	3 4 A -				750	504	4	23	29.5	164	625	1925	1,378	325,400	37,890	8.59	46.8		than 0.05%; Ash-Trace;					
	Plant				1,225	823					1,000			1,346,000	136,095	9.89		57.4	B.S. & W. - Trace	5.13	No	75	M	M
1083	1 2 M P				1,200	806	8	16	20	257	1,042	1931	3,844	2,182,827	168,274	12.97	70.5	70.5	27-30° A.P.I; S-0.5%; B.S. & W - 1%	3.58	No	1,100	M	F
725	1 4 A -				600	403	6	17	25	200	500	1926	7,100	---------	-------	-----	-----							
	2 4 A -				400	269	4	17	25	200	337	1925	4,528	---------	-------	-----	-----		32°-36° A.P.I.					
	3 2 M C				360[1]	134	4	14	17	257	170	1924	3,281	---------	-------	-----	-----		S - 0.5%					
	Plant				1,200	806					1,007			3,362,149	315,022	10.67		74.4		3.62	No	---	-	-
451	1 2 M P				600	403	4	16	20	257	512	1931	-----	---------	-------	-----	-----							
	2 2 M P				600	403	4	16	20	257	512	1931	-----	---------	-------	-----	-----		30°-32° A.P.I; S-Less than 0.5%					
	Plant				1,200	806					1,024		8,963	1,693,200	165,474	10.23		46.9	Cold Test 40°-50°	3.43	No	---	M	F
333	1 4 A -				1,200	806	6	20	24	300	938	1929	1,094	680,400	63,420	10.73	77.2	77.2	----------	5.50	No	3,250	M	M
17	1 4 A -				600	403	6	17	25	200	---	1926	4,369	---------	-------	-----	----		----------					
	2 4 A -				600	403	6	17	25	200	---	1926	4,670	---------	-------	-----	----		----------					
	Plant				1,200	806								2,121,600	203,814	10.41		58.3		3.71	--	---	-	-
16	1 4 A -				600	403	6	17	25	200	512	1927	537	---------	-------	-----	----		28°-30° A.P.I.					
	2 2 M C				240	161	4	14	17	257	200	1925	392	---------	-------	-----	----							
	3 2 M C				360	242	6	14	17	257	300	1925	481	---------	-------	-----	----							
	Plant				1,200	806					1,012			388,590	35,314	11.00		98.2		3.69	No	1,100	M	M
14	1 2 A P				450	302	3	16.75	22	225	---	1926	-----	836,700	96,375	8.68	----		24°-26° A.P.I.					
	2 2 A P				750	504	4	16.75	22	240	---	1928	-----	279,600	34,405	8.12	----							
	Plant				1,200	806					---			1,116,300	130,780	8.53		----		4.98	No	---	M	B

TABLE IV - INFORMATION COVERING FUEL OIL (PAGE 4)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	GROSS OUTPUT - K.W. HRS.	FUEL OIL USED - GALLONS	GROSS K.W. HRS. PER GALLON OF FUEL OIL	RUNNING ENGINE CAPACITY FACTOR - (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	NATURE OF FUEL OIL USED - (SEE NOTES)	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	IS FUEL CENTRIFUGED?	PLANT ALTITUDE - FEET ABOVE SEA LEVEL	PURPOSE FOR WHICH JACKET WATER HEAT IS UTILIZED (SEE NOTES)	PURPOSE FOR WHICH EXHAUST HEAT IS UTILIZED (SEE NOTES)
878	1 2 M P				560	376	4	16	20	257	470	1929	4,833	1,261,900	-------	-------	68.5		29.1° A.P.I; S-0.44%				
	2 2 M C				200[i]	134	4	14	17	257	170	1919	65	6,630	-------	-------	76.5						
	3 4 A -				400	269	4	17	25	200	337	1924	4,382	970,500	-------	-------	82.3						
	Plant				1,160	779					977			2,239,030	239,134	9.40		74.6		2.71	No	2,163	N	N
193	1 4 A -				675	453	5	18	25	225	625	1931	3,893	844,090	84,552	9.98	47.9		28°-30° A.P.I.					
	2 4 A -				480	322	6	13	17	340	415	1932[l]	4,431	609,900	65,689	9.28	42.7							
	Plant				1,155	775					1,040			1,453,990	150,241	9.67		45.5		3.73	No	925	-	-
616	1 4 A -				300	202	3	16.5	23	200	250	1923	4,588	652,010	53,792	12.12	70.4		20°-22° A.P.I; S-Less than 0.5%					
	2 2 M C				100[i]	67	2	14	17	257	75	1920	161	9,700	1,200	8.08	90.0							
	3 4 A -				750	504	4	23	32	150	657	1925	4,156	1,049,600	94,712	11.08	50.1							
	Plant				1,150	773					982			1,711,310	149,704	11.43		56.5		4.51	No	20	M	F
887	1 2 M C				150[i]	101	3	14	17	257	125	1922	24	----------	-------	-----	----		----------					
	2 2 A F				440	295	4	15	20	225	375	1930	8,493	----------	-------	-----	----		----------					
	3 4 M -				550	369	5	17	24	225	438	1928	248	----------	-------	-----	----		----------					
	Plant				1,140	765					938			1,195,560	139,215	8.59		45.9		4.16	No	4,082	N	N
95	1 2 M F				560	376	4	16	20	257	469	1929	370	113,300	-------	-----	81.4		22° A.P.I.					
	2 2 M F				560	376	4	16	20	257	469	1929	836	268,300	-------	-----	85.4							
	Plant				1,120	752					938			381,600	37,579	10.15		84.2		2.38	No	746	N	N
96	1 4 M -				600	403	6	17	24	225	500	1925	849	183,300	-------	-----	53.6		25° A.P.I.					
	2 4 M -				300	202	3	17	24	225	250	1923	7,476	573,500	-------	-----	38.0							
	3 2 M C				200[i]	134	4	14	17	257	170	1921	584	35,600	-------	-----	45.5							
	Plant				1,100	739					920			792,400	90,385	8.77		41.2		2.82	No	605	M	M
143	1 2 M C				360	242	6	14	17	257	300	1928	-----	421,467	-------	-----	----		32°-36° A.P.I.					
	2 2 M C				360	242	6	14	17	257	300	1928	-----	420,890	-------	-----	----							
	3 2 M C				360	242	6	14	17	257	300	1928	-----	422,044	-------	-----	----							
	Plant				1,080	726					900			1,264,401	130,240	9.70		----		3.31	No	---	-	-
78	1 4 M -				400	269	4	17	24	225	375	1928	3,936	322,900	47,900	6.74	30.5		28.6° A.P.I; S.U.-40" @ 100°F S-2.52%; Ash-0.005%; B.S. & W. - Trace					
	2 4 M -				660	443	6	17	24	240	625	1930	5,385	1,208,597	134,677	8.95	50.5							
	Plant				1,060	712					1,000			1,528,497	182,577	8.37		44.4		5.15	No	172	N	N
519	J1 2 M C				200	134	4	14	17	257	170	1925	-----	----------	-------	----	----		32°-36° A.P.I.					
	2 2 M C				300[i]	202	6	14	17	257	250	1922	-----	----------	-------	----	----							
	3 2 M F				560	376	4	16	20	257	470	1929	-----	----------	-------	----	----							
	Plant				1,060	712					890			1,657,470[h]	131,821	12.57		----		5.42	No	500	N	N
1144	1 2 M C				210	141	3	14	17	300	167	1931	4,932	370,800	32,240	11.49	53.3		28°-32° A.P.I; S.U.-45" @ 70°F S-Less than 1%; B.S. & W. - less than 0.25%					
	2 2 M C				420	282	6	14	17	300	353	1931	3,240	607,000	48,800	12.43	66.4							
	3 2 M C				420	282	6	14	17	300	353	1931	3,276	607,200	48,922	12.41	65.8							
	Plant				1,050	705					873			1,585,000	129,962	12.20		62.6		4.87	No	672	N	B
250	1 2 M C				210	141	3	14	17	300	170	1931	6,177	477,792	42,510	11.23	55.0		32-34° A.P.I.					
	2 2 M C				360	242	6	14	17	257	300	1926	1,767	176,940	23,250	7.61	41.4							
	3 2 M C				480	322	4	16	20	257	400	1928	988	145,100	16,550	8.77	45.6							
	Plant				1,050	705					870			799,832	82,310	9.72		49.5		5.08	No	3,467	N	N
203	1 2 M P				525	352	5	14	17	300	447	1931	3,898	814,800	78,020	10.44	59.4		32-36° A.P.I.;					
	2 2 M P				525	352	5	14	17	300	447	1931	4,064	747,800	87,528	8.55	52.2							
	Plant				1,050	704					894			1,562,600	165,548	9.44		55.7		3.37	No	---	N	N
801	1 2 A P				1,000	671	4	20.75	26	180	937	1927	8,451	4,837,200	474,170	10.20	85.2	85.2	24-26° A.P.I;S.U.-500" @ 100°F;S-1.0%	3.20	Yes	591	N	N
736	1 4 A -				1,000	671	6	22	32	150	900	1918[m]	640	353,500	30,239	11.68	82.3	82.3	22°-26° A.P.I.	1.87	No	300	N	N
1061	1 2 M P				980	658	7	16	20	257	975	1930	4,955	3,081,100	269,826	11.42	94.5	94.5	31° A.P.I; S.U.-67" @ 100°F S-0.51%; C.C.- 1.15%; Ash-Trace; B.S. & W. - Trace	3.25	No	1200	N	N
863	1 4 A -				300	202	3	17	24	200	250	1925	6,601	995,700	91,657	10.86	74.6		24°-26° A.P.I; S.U.-275" @ 100°F S-0.62%; C.C. - 4.7%					
	2 4 A -				675	453	6	17	24	225	625	1927	5,260	2,033,800	171,257	11.88	85.3							
	Plant				975	655					875			3,029,500	262,914	11.52		81.6		4.01	No	932	L	B
1065	1 2 M P				900	605	6	16	20	257	774	1931	755	380,160	30,680	12.38	83.3	83.3	28°-30° A.P.I;-S.-0.5 to 0.75%; B.S. & W. less than 1%	3.81	No	1,100	N	N
560	1 2 M C				200	134	4	12.5	13.25	327	169	1924	4,927	----------	-------	-----	----		34°-36° A.P.I; S-0.07%;C.C.-0.4% Ash-0.4%; B.S. & W. 0.4% Partly in Tank Trucks					
	2 2 M C				200	134	4	12.5	13.25	327	169	1924	4,819	----------	-------	-----	----							
	3 4 A -				500	336	5	17	24	200	438	1929	1,814	----------	-------	-----	----							
	Plant				900	604					776			731,930	119,448	6.12		38.2		2.76	No	---	M	M
260	1 2 A P				900	605	6	14.75	21	257	750	1928	319	90,700	9,996	9.07	47.0	47.0	27° A.P.I; S.F.-5.5" @ 77°F;S-0.51%; Ash-Trace; B.S.&W.-0.6%;Deld in Tank Wagon	3.39	Yes	4,850	N	N
98	1 2 M C				360	242	6	14	17	257	300	1926	4,043	589,300	-------	----	60.2		24°-26° A.P.I.					
	2 2 M C				360	242	6	14	17	257	300	1929	4,006	573,800	-------	----	59.2							
	3 2 M C				180	121	3	14	17	257	140	1926	5,386	435,400	-------	----	66.8							
	Plant				900	605					740			1,597,500	184,457	8.66		61.5		3.74	No	2,931	M	F
53	1 2 M C				200[i]	134	4	14	17	257	170	1923	1,959	167,160	-------	----	71.2		23.5° A.P.I; S.U.-60" @ 100°F					
	2 2 M C				300[i]	201	6	14	17	257	250	1923	2,544	362,290	-------	----	70.7							
	3 4 A -				400	269	4	16.25	23	225	338	1925	8,221	1,508,530	-------	----	68.4							
	Plant				900	604					758			2,057,980	224,087	9.18		69.0		2.55	No	1,650	N	N
189	1 4 M -				550	369	5	17	24	240	470	1929	8,643	1,041,080	-------	----		32.6	28°-30° A.P.I.					
	2 4 M -				200[o]	134	2	17	24	200	170	1922	141	11,040	-------	----		58.4						
	3 4 M -				100[o]	67	1	17	24	200	90	1915	0	0	-------	----		0						
	Plant				850	570					730			1,052,120	122,184	8.61		32.8		2.76	No	1,850	N	N
1056	1 2 M P				840	564	6	16	20	257	700	1929	4,166	1,791,070	163,607	10.94	76.2	76.2	31° A.P.I; S.U. 57" @ 100°F;S-0.66% C.C.-0.06%; Ash Trace B.S.& W. Trace	3.12	No	1,200	N	N
619	1 2 M P				840	564	6	16	20	257	700	1929	1,363	588,300	56,995	10.32	76.5	76.5	28°-30° A.P.I.	3.53	No	1,100	N	F
494	1 2 M P				840	564	6	16	20	257	700	1930	1,178	495,200	46,348	10.69	74.5	74.5	28°-30° A.P.I.	3.51	No	1,100	N	N
153	1 2 M P				840	564	6	16	20	257	700	1929	2,078	969,410	83,244	11.73	82.7	82.7	----------	3.55	--	------	-	-
731	1 4 A -				825	554	4	23	32	164	750	1926	1,555	585,805	51,233	11.43	68.2	68.2	32° A.P.I; S-0.5%	4.00	No	865	N	N
648	1 4 M -				400	269	4	17	24	225	333	1928	2,653	501,990	47,181	10.63	70.4		26°-26° A.P.I.					
	2 4 M -				400	269	4	17	24	225	333	1928	2,180	597,540	56,286	10.61	70.0							
	Plant				800	538					666			1,099,530	103,467	10.62		70.2		3.23	No	1,100	N	B
421	1 4 A -				800	537	8	17	24	200	681	1930	7,044	2,631,800	230,805	11.40	69.6	69.6	26°-28° A.P.I.	2.20	No	600	N	N
112	1 2 M C				200[i]	134	4	14	17	257	170	1925	3,093	320,100	35,930	8.91	77.1		30°-36° A.P.I.					
	2 2 M C				240	161	4	14	17	257	200	1927	6,914	840,300	68,575	12.25	75.4							
	3 2 M C				300[i]	202	6	14	17	257	258	1925	2,517	385,500	42,153	9.15	76.1							
	Plant				740	497					620			1,545,900	146,658	10.55		75.8		3.52	No	845	N	N

TABLE IV - INFORMATION COVERING FUEL OIL (PAGE 5)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM-(SEE NOTES)	SCAVENGING SYSTEM-(SEE NOTES)	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	GROSS OUTPUT - K.W. HRS.	FUEL OIL USED - GALLONS	GROSS K.W. HRS. PER GALLON OF FUEL OIL	RUNNING ENGINE CAPACITY FACTOR - (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR-(SEE TEXT)	NATURE OF FUEL OIL USED - (SEE NOTES)	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	IS FUEL CENTRIFUGED?	PLANT ALTITUDE - FEET ABOVE SEA LEVEL	PURPOSE FOR WHICH WATER HEAT IS UTILIZED (SEE NOTES)	PURPOSE FOR WHICH EXHAUST HEAT IS UTILIZED (SEE NOTES)
718	1 2	M	C		360	242	6	14	17	257	300	1926	4,750	373,910	-------	----	32.5		32-36° A.P.I; S.U.-36" @ 100°F					
	2 2	M	C		360	242	6	14	17	257	300	1926	4,250	343,410	-------	----	33.4		S-0.7%; C.C.-0.01%;					
	Plant				720	484					600			717,320	88,908	8.07		33.0	Ash-0.001%; B.S.&W. Trace	3.61	No	1,200	N	N
532	1 2	M	C		360	242	6	14	17	257	300	1929	5,317	-------	-------	----	----		32°-36° A.P.I.					
	2 2	M	C		360	242	6	14	17	257	300	1929	5,043	-------	-------	----	----							
	Plant				720	484					600			1,352,300	142,157	9.52		54.0		4.17	No	700	N	BF
527	1 2	M	C		360	242	6	14	17	257	300	1930	5,404	-------	-------	----	----		26° A.P.I; S.U. 75" @ 100°F;					
	2 2	M	C		360	242	6	14	17	257	300	1930	5,000	-------	-------	----	----		S-less than 0.5%; C.C.-from					
	Plant				720	484					600			997,200	109,750	9.09		39.6	Trace to 0.5%; Ash-trace B.S. & W. 0.5%	3.10	No	750	N	N
170	1 2	M	C		360	242	6	14	17	257	300	1929	2,429	-------	-------	----	----		29° A.P.I; S.U.-38" @ 100°F;S-0.8%					
	2 2	M	C		360	242	6	14	17	257	300	1929	2,572	-------	-------	----	----		C.C.-0.04%; By Tank					
	Plant				720	484					600			703,156	73,434	9.58		58.2	Truck	5.53	No	50	N	N
67	1 2	M	C		360	242	6	14	17	257	250	1925	2,122	418,240	40,401	10.35	81.5		23° A.P.I; S.U.-52" @ 100° F					
	2 2	M	C		360	242	6	14	17	257	250	1925	1,998	392,760	39,151	10.03	81.4		S-0.005%; C.C. 0.037%					
	Plant				720	484					500			811,000	79,552	10.19		81.5		4.47	No	860	N	N
19	1 2	M	C		100[1]	67	2	14	17	257	---	----	2,137	-------	-------	-----	----		----------					
	2 2	M	C		240	161	4	12.5	13.25	325	---	1927	5,319	-------	-------	-----	----		----------					
	3 2	M	C		360	242	4	15.26	16	275	---	1927	1,513	-------	-------	-----	----		----------					
	Plant				700	470					---			661,930	82,300	8.04		48.5		3.63	--	----	-	-
411	1 2	M	C		200[1]	134	4	14	17	257	140	1914	40	-------	323	-----	----		32°-34° A.P.I.					
	2 2	M	C		120	81	2	14	17	257	90	1926	2,892	-------	15,878	-----	----							
	3 2	M	C		360	242	6	14	17	257	240	1930	5,867	-------	48,398	-----	----							
	Plant				680	457					470			657,670	64,599	10.17		39.7		3.42	No	1,777	-	M
529	1 2	M	C		100[1]	67	2	14	17	257	75	1922	1,062	-------	4,031	-----	----		28°-30° A.P.I. - Warm weather					(
	2 2	M	C		100[1]	67	2	14	17	257	75	1922	1,009	-------	4,022	-----	----		32°-36° A.P.I. - Cold weather					
	3 2	M	C		120	81	2	14	17	257	90	1927	4,285	-------	18,826	-----	----							
	4 2	M	F		300	201	6	10.5	12.5	360	250	1931	4,591	-------	47,779	-----	----							
	Plant				620	416					490			541,836	74,658	7.26		38.4		3.60	No	700	B	B
106	1 4	A	-		600	403	6	17	25	200	---	1929	4,899	1,409,410	128,355	10.99	71.4	71.4		3.77	--	----	-	-
1096	1 4	A	-		600	403	6	16.25	23	225	513	1928	2,576	725,880	61,878	11.73	69.9	69.9	28°-30° A.P.I.	3.88	No	1,100	N	N
1094	1 4	A	-		600	403	6	16.25	23	225	513	1928	1,969	619,170	57,140	10.84	78.0	78.0	28°-30° A.P.I.	3.79	No	1,150	N	B
644	1 2	M	C		240	161	4	14	17	257	196	1931	7,503	-------	72,340	-----	----		32°-36° A.P.I; S-0.5%;					
	2 2	M	C		360	242	6	14	17	257	300	1931	1,308	-------	22,580	-----	----		B.S. & W. 0.5%					
	Plant				600	403					496			912,400	94,920	9.61		59.8		4.04	No	579	N	N
61	1 4	M	-		300	202	3	17.75	22	225	275	1928	4,289	578,100	-------	-----	66.7		30°-A.P.I; S-0.3%; C.C. 0.15%					
	2 4	M	-		300	202	3	17.75	22	225	275	1928	6,372	804,400	-------	-----	62.5		S.U.-40" @ 100°F; Ash-Trace B.S. & W. -0.25%					
	Plant				600	404					550			1,382,500	118,484	11.66		64.3		4.63	No	643	T	N
32	1 4	M	-		600[0]	403	5	17.75	22	234[n]	572	1928	1,321	414,600	37,677	11.00	77.9	77.9	36° A.P.I; C.C. & Ash-Trace B.S. & W. - Trace	5.45	No	9,200[0]	BF	B
103	1 2	M	C		240	161	4	14	17	257	200	1927	3,753	309,300	-------	-----	51.2		24°-26° A.P.I.					
	2 2	M	C		200[1]	134	4	14	17	257	200	1920[p]	3,874	299,300	-------	-----	57.6							
	3 2	M	C		150[1]	101	3	14	17	257	125	1923	6,003	281,940	-------	-----	46.5							
	Plant				590	396					525			890,540	136,976	6.50		51.4		3.94	No	3,100	N	F
862	1 2	M	C		75[1]	50	2	12	15	300	60	1920	4	-------	-------	-----	----		33.1° A.P.I; S-0.61%					
	2 2	M	C		75[1]	50	2	12	15	300	60	----	76	-------	-------	-----	----		B.S. & W. Trace					
	3 2	M	C		180	121	3	14	17	257	150	1925	3,702	-------	-------	-----	----							
	4 4	A	-		258	173	3	16.5	24.5	180	225	1918[r]	5,159	-------	-------	-----	----							
	Plant				588	394					495			644,280	75,138	8.58		47.9		3.14	No	221	N	N
102	1 2	M	C		240	161	4	14	17	257	200	1928	765	50,800	-------	------	41.3		24°-26° A.P.I.					
	2 2	M	C		240	161	4	14	17	257	200	1928	915	62,530	-------	------	42.4							(
	3 2	M	C		100[1]	67	2	14	17	257	75	1922[p]	662	25,880	-------	------	58.3							
	Plant				580	389					475			139,210	18,807	7.40		44.2		2.31	no	565	N	F
640	1 2	M	C		360	242	6	14	17	257	300	1930	4,857	453,400	-------	------	38.6		32°-36° A.P.I.					
	2 2	M	C		180	121	3	14	17	257	120	1928	3,788	214,900	-------	------	47.0		S-0.25%					
	Plant				540	363					420			668,300	83,944	7.96		40.9		3.36	No	725	N	N
246	1 2	M	C		100[1]	67	2	14	17	257	60	1918	2,320	-------	-------	------	------		36°-40° A.P.I.					
	2 2	M	C		200[1]	134	4	14	17	257	170	1922	4,390	-------	-------	------	------							
	3 2	M	C		240	161	4	14	17	257	200	1929	2,995	-------	-------	------	------							
	Plant				540	362					430			431,636	60,477	7.14		35.1		6.17	No	5,000	B	N
160	1 2	M	C		120	81	2	14	17	257	90	1930	3,724	-------	-------	------	------		32°-36° A.P.I.					
	2 2	M	C		180	121	3	14	17	257	150	1930	4,003	-------	-------	------	------							
	3 2	M	C		240	161	4	14	17	257	200	1930	1,534	-------	-------	------	------							
	Plant				540	363					440				58,610	------		----		4.50	No	----	N	N
101	1 2	M	C		240	161	4	14	17	257	200	1926	5,899	523,700	-------	------	55.1		28°-30° A.P.I.					
	2 2	M	C		150[1]	101	3	14	17	257	150	1919	1,419	59,460	-------	------	41.5							
	3 2	M	C		150[1]	101	3	14	17	257	125	1923	2,762	140,740	-------	------	50.5							
	Plant				540	363					475			723,900	86,396	8.38		52.8		2.44	No	992	N	N
772	1 4	A	-		250	168	4	13.75	17.5	275	250	1916	551	66,336	6,600	10.05	71.7		28°-30° A.P.I.					
	2 4	A	-		250	168	4	13.75	17.5	275	263	1916	690	87,214	8,370	10.42	75.3							
	Plant				500	336					513			153,550	14,970	10.25		73.7		3.72	No	1,100	N	N
501	1 2	M	C		120	81	2	14	17	257	90	1926	4,371	111,535	19,087	5.84	31.7		34°-36° A.P.I.					
	2 2	M	C		120	81	2	14	17	257	90	1925	4,287	109,373	18,570	5.89	31.7		and					
	3 2	M	C		240	161	4	14	17	257	200	1929	2,908	220,500	23,538	9.37	47.1		37°-40° A.P.I.					
	Plant				480	323					380			441,408	61,195	7.21		37.9		4.71	No	1,106	N	N
424	1 2	M	C		240	161	4	14	17	257	200	1929	5,820	396,955	45,128	8.80	42.3		----------					
	2 2	M	C		240	161	4	14	17	257	200	1929	3,115	205,550	24,972	8.23	40.9		----------					
	Plant				480	322					400			602,505	70,100	8.60		41.8		3.00	No	400	N	N
695	1 2	M	C		165	111	3	12	15	360	150	1931	2,629	-------	------	----	----		28°-34° A.P.I.					
	2 2	M	C		165	111	3	12	15	360	150	1931	2,482	-------	------	----	----							
	3 2	M	C		120	81	2	14	17	257	90	1931	4,364	-------	------	----	----							
	Plant				450	303					390			436,340	47,310	9.22		47.6		4.59	No	300	N	B
335	1 4	A	-		250	168	4	13.75	17.5	257	219	1924	6,288	368,100	38,114	9.66	34.9		32°-36° A.P.I; S-0.5%					
	2 4	A	-		180	121	4	11.75	15	300	150	1920	2,472	134,030	12,231	10.96	44.8							
	Plant				430	289					369			502,130	50,345	9.97		37.1		3.11	No	867	N	B

TABLE IV - INFORMATION COVERING FUEL OIL (PAGE 6)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	NUMBER OF CYLINDERS	CYLINDER BORE - INCHES	STROKE - INCHES	RATED R.P.M.	GENERATOR RATING - K.V.A.	YEAR ENGINE STARTED TO WORK	ENGINE HOURS OPERATED IN REPORTED PERIOD	GROSS OUTPUT - K.W. HRS.	FUEL OIL USED - GALLONS	GROSS K.W. HRS. PER GALLON OF FUEL OIL	RUNNING ENGINE CAPACITY FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	NATURE OF FUEL OIL USED - (SEE NOTES)	AVERAGE COST OF FUEL OIL - CENTS PER GALLON	IS FUEL CENTRIFUGED?	PLANT ALTITUDE - FEET ABOVE SEA LEVEL	PURPOSE FOR WHICH JACKET WATER HEAT IS UTILIZED (SEE NOTES)	PURPOSE FOR WHICH EXHAUST HEAT IS UTILIZED (SEE NOTES)
247	1 2	M	C		240	161	4	14	17	257	160	1928	2,900	---------	--------	-----	----		29° A.P.I.					
	2 2	M	C		100[1]	67	2	14	17	257	75	1920	5,850	---------	--------	-----	----							
	3 2	M	C		50[1]	34	1	14	17	257	40	1915	1,200	---------	--------	-----	----							
	Plant				390	262					275			487,960	62,803	7.77		54.2		4.55	No	5,000	N	N
1129	1				e[1]75	50	2	10.5	14	257	72	----	3,597	52,500	--------	-----	29.2		34°-36° A.P.I.- Summer					
	2				s[1]75[s]	50	2	10.5	14	257	72	----	30	350	--------	-----	23.3		38°-40° A.P.I.- Winter					
	4	M	K	C	e[1]80[s]	54	2	11.32	16	257	72	----	412	7,700	--------	-----	34.6							
	2	M	C		[1]150	101	3	14	17	257	125	----	4,792	142,900	--------	-----	29.5							
	Plant				380	255					341			203,450	35,299	5.76		29.6		4.09	No	4,000	N	N
105	1	2	M	C	150[1]	101	3	14	17	257	125	1922	4,467	245,000	--------	-----	54.3		34°-36° A.P.I.					
	2	2	M	C	120	81	2	14	17	257	75	1926	2,317	57,920	--------	-----	30.9							
	3	2	M	C	100[1]	67	2	14	17	257	75	1923	3,918	107,300	--------	-----	40.9							
	Plant				370	249					275			410,220	57,713	7.11		45.5		2.35	No	1,580	N	P
1091	1	2	M	C	180	121	3	14	17	257	150	1930	-----	--------	--------	-----	-----		38° A.P.I.					
	3	2	M	C	180	121	3	14	17	257	150	1929	-----	--------	--------	-----	-----							
	Plant				360	242					300				53,531	-----		----		1.98	No	5,000	N	N
161	1	2	M	C	360	242	6	14	17	257	300	1929	-----	1,003,500	85,140	11.78	-----	----	30.6° A.P.I;S.U. 44" @ 100°F S-0.526%; C.C. 0.5% B.S. & W. C.005%	3.96	No	450	N	N
152	1	2	M	C	360	242	6	14	17	257	---	1925	58	6,600	798	8.27	47.0	47.0	----------	3.90	--	---	-	-
688	1	2	M	C	50[1]	34	1	14	17	257	---	1923	944	--------	--------	-----	----		32°-36° A.P.I.					
	2	2	M	C	120	81	2	14	17	257	---	1926	6,068	--------	--------	-----	----							
	Plant				350	236					---			437,500	58,480	7.48		42.6		3.93	No	870	N	N
187	1	2	M	C	140	94	2	14	17	300	111	1931	-----	--------	--------	-----	----		32°-36° A.P.I.					
	2	2	M	C	210	141	3	14	17	300	170	1931	-----	--------	--------	-----	----							
	Plant				350	235					281			315,000	35,875	8.77		----		4.15	No	695	N	BF
774	1	4	A	-	165	111	4	11.75	15	277	135	1917	487	41,040	3,600	11.40	76.0		28°-30° A.P.I.					
	2	4	A	-	180	121	4	11.75	15	300	135	1920	480	40,302	3,509	11.49	69.4							
	Plant				345	232					270			81,342	7,109	11.44		72.6		3.58	No	1,100	N	N
857	1	2	M	C	180	121	3	14	17	257	150	1929	5,571	321,200	--------	-----	47.6		S-1.0% (approx.)					
	2	2	M	C	150[1]	101	3	14	17	257	---	1927	3,242	107,504	--------	-----	32.8							
	Plant				330	222					---			428,704	58,127	7.38		42.8		2.80	No	4,010	P	N
1055	1	4	M	-	320	215	4	15	18.5	300	265	1932[t]	3,672	233,385	26,367	8.86	29.6	29.6	28°-30° A.P.I.	4.50	No	1,053	N	N
265	1	2	M	C	60	40	1	14	17	257	48	1927	2,555	--------	------	-----	----		38° A.P.I.					
	2	2	M	C	120	81	2	14	17	257	90	1927	3,716	--------	------	-----	----							
	3	2	M	C	140	94	2	14	17	300	111	1931	2,615	--------	------	-----	----							
	Plant				320	215					249			245,000	33,130	7.40		37.9		7.30	No	1,000	N	N
27	1	2	M	C	75[1]	50	2	12	15	300	---	1926	6,173	--------	------	-----	----		----------					
	2	2	M	C	240	161	4	12.5	13.25	325	---	1926	2,611	--------	------	-----	----		----------					
	Plant				315	211					---			210,470	38,111	5.52		28.8		3.63	--	---	-	-
362	1	4	M	-	150	101	4	9.5	14	300	140	1927	4,458	98,700	------	-----	21.9		36°-40° A.P.I.; S-1%; Ash & C.C.-					
	2	4	M	-	150	101	4	9.5	14	300	140	1927	525	7,600	------	-----	14.3		Trace; B.S. & W. Not over 1%					
	Plant				300	202					---			106,300	13,543	7.85		21.2		3.48	No	875	BF	N
858	1	2	M	C	150[1]	101	3	14	17	257	125	1929	4,144	112,800	------	-----	27.0		S-1% (approx.)					
	2	2	M	C	120	81	2	14	17	257	90	1929	4,640	98,300	------	-----	26.2							
	Plant				270	182					215			211,100	40,136	5.26		26.7		2.82	No	4,509	M	P
626	1	2	M	C	120	81	2	14	17	257	95	1930	4,066	216,000	------	-----	66.0		28°-30° A.P.I.					
	2	2	M	C	120	81	2	14	17	257	95	1930	4,458	219,300	------	-----	60.8							
	Plant				240	162					190			435,300	45,810	9.50		63.4		3.93	No	---	N	N
516	1	2	M	C	120	81	2	14	17	257	94	1926	4,380[h]	--------	-------	-----	----		29°-31° A.P.I.					
	2	2	M	C	120	81	2	14	17	257	94	1930	4,380[h]	--------	-------	-----	----							
	Plant				240	162					188			160,600	23,700	6.78		22.8		4.12	No	---	N	N
169	1	4	M	-	240	161	6	10.75	13.75	327	200	1928	1,834	81,890	10,007	8.18	27.7	27.7	30-32° A.P.I; S.U.-45" @ 100°F; S-0.5% (Max.);Ash & B.S. & W.- Trace;	5.04	No	20	B	N
984	1	4	A	-	225	151	6	9.5	13.5	400	219	1928	405	28,800	3,900	7.38	47.1	47.1	Delivered in Tank Wagon	4.50	No	190	N	N
318	1	2	M	C	25[1]	17	1	10.	13	325	---	1918	---	13,100	------	----	----							
	2	2	M	C	37.5[1]	25	1	12	15	300	---	1924	---	44,310	------	----	----		32-36° A.P.I.					
	3	2	M	C	50[1]	34	1	14	17	257	---	1920	---	46,200	------	----	----							
	4	2	M	C	100	67	2	12.5	13.25	327	---[u]	1922[v]	---	40,820	------	----	----							
	Plant				212.5	143					---[u]			144,430	23,039	6.27		----		4.10	No	1,325	B	N
733	1	2	M	C	100	67	2	12.5	13.25	327	60	1922	21	951	272	3.50	67.4		----------					
	2	2	M	C	75[1]	50	2	12	15	300	60	1914	30	864	200	4.32	57.2							
	Plant				175	117					120			1,815	472	3.84		62.1		3.00	No	850	N	N
646	1	2	M	C	120	81	2	14	17	257	90	1927	668	7,220	2,043	3.53	13.4	13.4	38°-40° A.P.I.	5.37	No	600	N	N

NOTES; INJECTION SYSTEM
- A - Air
- M - Mechanical

SCAVENGING SYSTEM (2 STROKE CYCLE ONLY)
- C - Crank Case Compressor
- P - Attached Pump or Blower
- B - Independently Driven Blower

HEAT UTILIZATION
- N - Not Utilized
- B - To Heat Building
- F - To Heat Fuel Oil
- L - To Heat Lubricating Oil (Before Purification)
- BF - To Heat Boiler Feed Water
- T - Thawing Ice Cans

NATURE OF FUEL
- A.P.I. - American Petroleum Institute
- S.U. - Seconds Saybolt Universal
- S.F. - Seconds Saybolt Furol
- S. - Sulphur
- C.C. - Carbon by Conradson Method
- B.S.&W.- Bottom Sediment and Water
- ASPH. - Asphaltic Residue

LETTERED NOTES:
- a - Started Fifth Day of 5th Month
- b - No Deductions Made for Motor Driven Scavenging Blower
- c - Installed Twenty-first Day of 9th Month
- d - Started Twenty-fifth Day of 12th Month
- e - Horizontal Engine
- f - Revised from Previously Reported Figure by Operator
- g - Date of Original Installation; Started Here on First Day of Fourth Month
- h - Estimated
- i - Semi-Diesel
- j - Started Tenth Day of 6th Month
- k - Started Before Beginning of Period
- l - Started Twenty-Ninth day of Second Month
- m - Date of Original Installation; Started Here in 1924
- n - Sold For 257 R.P.M.
- o - Supercharged to Give Sea Level Intake
- p - Date of Original Installation; Installed in This Plant in 1930
- r - Date of Original Installation; Installed in This Plant in 1928
- s - Second Unit Discarded Thirtieth Day of 11th Month; Third Unit Started on That Date
- t - Started First Day of Five Month Period
- u - All Belt Driven Direct - Current Generators
- v - Date of Original Installation; Date Installed Here Unknown

TABLE V INFORMATION COVERING MAINTENANCE AND OPERATING LABOR (PAGE 1)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	NUMBER OF CYLINDERS	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	YEAR ENGINE STARTED TO WORK	PEAK LOAD DURING REPORTED PERIOD. - GROSS K.W.	B.M.E.P. AT RATED B. H. P. LBS. PER SQ. IN.	B.M.E.P. AT PEAK LOAD - 90% GENERATING EFFICIENCY	RUNNING ENGINE CAPACITY FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	PISTON COOLING (SEE NOTES)	ARE AIR FILTERS USED?	TYPE COOLING SYSTEM (SEE TEXT)	COST OF REGULAR ENGINE UPKEEP - TOTAL DOLLARS MATERIAL - EXTRA LABOR	COST OF REPAIRS FOR MAJOR ACCIDENTS - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	TOTAL ENGINE REPAIRS IN DOLLARS PER RATED B.H.P. PER YEAR	MAJOR ENGINE PARTS RENEWED DURING REPORTED PERIOD	NUMBER OF ENFORCED ENGINE SHUTDOWNS	TOTAL DURATION OF ENFORCED ENGINE SHUTDOWNS - HOURS	TOTAL ENGINE MAINTENANCE TIME NOT INCLUDING ENFORCED SHUTDOWNS - HOURS	NUMBER OF SHIFTS IN PERIOD	NUMBER OF HOURS PER SHIFT	NUMBER OF ATTENDANTS PER SHIFT	OUTPUT PER MAN-HOUR - NET K.W. HRS.
43	1	4	A	-	3	500	336	1915	300	78.4	70.0	68.9		W	No													
	2	4	A	-	3	500	336	1916	300	78.4	70.0	71.8		W	No													
	3	4	A	-	6	1,000	671	1922	740	73.9	81.5	65.2		W	No		105-311	0	0.42	Piston Heads & Rings								
	4	4	A	-	6	1,000	671	1925	740	73.9	81.5	68.7		W	No		303-851	0	0.58									
	5	4	A	-	4	520	349	1919	400	74.0	84.8	76.7		W	No													
	6	4	A	-	4	520	349	1920	400	74.0	84.8	78.6		W	No		520-234	0	0.73									
	7	2	A	P	6	3,750	2,517	1928	2,800	67.2	74.8	101.4		W	Yes													
	8	2	A	B	6	3,750	2,517	1929	2,800	67.2	74.8	83.0		W	Yes		6,512-5,506	0	1.60									
	9	2	M	B	6	4,100	2,753	1932[a]	2,800	73.5	74.8	76.2		W	Yes		920-652	0	0.38									
	Plant					15,640	10,499		6,400[b]				83.3			B-E								366	8	2		
																								366	8	3	1,385
82	1	4	A	-	4	360	242	1921	-----	72.7	----	64.8		A	No		20-323	0	0.95	16 long studs; 2 wiper pins	0	0	26					
	2	2	A	P	4	750	504	1923	-----	67.3	----	50.7		W	Yes		182-597	0	1.04	12 H. P. Comp. rings; 4 H.P.	0	0	56					
	3	2	A	P	4	750	504	1924	-----	67.3	----	49.6		W	Yes		170-625	0	1.06	Valves; 38 working piston	1	13	57					
	4	2	A	P	6	1,150	772	1927	-----	68.8	----	60.1		W	Yes		381-1,648	0	1.76	rings; 1 H.P. Air Tube Bank;	0	0	213					
	5	2	A	P	6	1,150	772	1927	-----	68.8	----	60.1		W	Yes		957-2,161	0	2.71	1-Gov. Spring; 1-Gov. Ball	0	0	262	313	8	2		
	6	2	A	P	8	1,500	1,007	1929	-----	67.3	----	69.4		W	Yes		479-2,234	0	1.81	Race; 15 Piston Cooling Tubes	0	0	277	313	8	2		
	7	2	M	B	10	3,300	2,216	1932[c]	-----	67.6	----	34.3		O	Yes		171-256	0	0.13	2-Crank Pin Bxs. U.H.;1 Fuel	1	20	0	313	8	4		
	Plant					8,960	6,017		3,260				60.3			B-E				Needle;12 x Hd. Bearings; 1 cyl. Liner				364	8	1	395
52	1	4	A	-	4	830	557	1928	580	75.3	78.4	70.4		W	No[e]		120-606	0	0.88	1 Fuel Pump X-centric Strap	1	3	116					
	2	4	A	-	6	1,250	840	1928	880	75.7	79.4	80.1		W	No[e]		87-754	0	0.67	Exhaust Valve Springs	0	0	127	313	8	2		
	3	4	A	-	6	1,250	840	1928	885	75.7	79.8	80.3		W	No[e]		101-858	0	0.75	3-Piston Rings & Exh. Valve	2	5	132	313	8	2		
	4	4	A	-	6	1,250	840	1930	880	75.7	79.4	77.5		W	No[e]		49-590	0	0.51	Sprs. Exhaust Valve Springs	0	0	77	313	8	3		
	5	4	A	-	8	2,865	1,924	1933[d]	1,800	74.5	69.7	59.0		W	Yes		0	0	0		0	0	0	312	8	1		
	Plant					7,445	5,001		2,920				78.1			A[f]								82	8	1	445
91	1	4	M	-	6	600	403	1927	-----	64.6	----	56.9		A	Yes													
	2	4	M	-	6	600	403	1927	-----	64.6	----	61.8		A	Yes													
	3	4	M	-	6	1,125	755	1927	-----	72.3	----	54.1		A	Yes		-------771---------		0.15	Gaskets								
	4	4	M	-	6	1,125	755	1928	-----	72.3	----	56.0		A	Yes													
	5	4	A	-	6	1,800	1,208	1930	-----	72.9	----	62.6		O	Yes									366	8	2		
	Plant					5,250	3,524		1,625				58.4			D-E								366	8	1	554
73	1	2	A	P	5	1,250	840	1928	950	62.5	70.7	65.1		W	Yes													
	2	2	A	P	5	1,250	840	1928	900	62.5	70.0	66.6		W	Yes													
	3	2	A	P	5	1,250	840	1924	860	62.5	64.0	66.1		W	Yes		---1278---	0	0.26	Piston Rings; 2-Crank Bearings; minor parts	0	0	----	366	8	2		
	4	2	A	P	5	1,250	840	1926	850	62.5	63.2	69.8		W	Yes			0			0	0	----	308	8	3		
	Plant					5,000	3,360		2,305				66.4			B								366	8	2	322
92	1	2	A	P	8	2,400	1,612	1930	-----	63.5	----	64.5		O	Yes													
	2	2	A	P	5	1,250	840	1928	-----	62.5	----	65.0		W	Yes		-------4003-------		0.82	Cylinder liners & Gaskets								
	3	2	A	P	5	1,250	840	1928	-----	62.5	----	74.4		W	Yes													
	Plant					4,900	3,292		2,000				68.2			D								366	8	1	656
45	1	4	A	-	6	600	403	1923	350	77.2	67.0	43.4		A	No[e]			0										
	2	4	A	-	6	600	403	1923	350	77.2	67.0	47.6		A	No[e]			0			0	0	18					
	3	4	A	-	4	750	504	1923	400	74.5	59.1	54.0		W	No[e]						0	0	73					
	4	4	A	-	6	1,150	772	1926	800	76.1	78.9	64.3		W	No[e]		208-2,774	1,416-176	1.57	2 cyl. heads[g]	0	0	130	313.7	8	2		
	5	4	A	-	6	1,150	772	1926	800	76.1	78.9	64.2		W	No[e]			1,233-184		2 cyl. heads[g]	0	0	245	313.7	8	4		
	Plant					4,250	2,854		1,500				62.1			B		616-98		1 cyl. head[g] & H.P. comp. cyl. liner	0	0	310	313.7	8	2		
																								313.7	8	1	222
54	1	4	A	-	6	600	403		-----	69.8	----	----		A	No		---------	---------	--	Exhaust Valves; H.P.	-	--	---					
	2	4	A	-	6	600	403		-----	69.8	----	----		A	No		---------	---------	----	Comp. Valves; cyl. liners;	-	--	---					
	3	4	A	-	6	600	403	1925	-----	69.8	----	----		A	No		---------	---------	----	Spray nozzles;	-	--	---					
	4	4	A	-	6	600	403	&	-----	69.8	----	----		A	No		---------	---------	----	Piston Rings (many)	-	--	---					
	5	4	A	-	6	600	403	1926	-----	69.8	----	----		A	No		---------	---------	----		-	--	---					
	6	4	A	-	6	600	403		-----	69.8	----	----		A	No		---------	---------	----		-	--	---					
	7	4	A	-	6	600	403		-----	69.8	----	----		A	No		---------	---------	----		-	--	---	244	8	5		
	Plant					4,200	2,821		2,875[h]				95.1			B-E								244	8	2	865
																						528		244	8	2	
130	1	4	A	-	6	600	403	1924	460	73.8	84.3	68.8		A	Yes		149-31	678-44	1.50	1-New piston & rings 1-liner	4	50	110					
	2	4	A	-	6	600	403	1926	440	72.7	79.4	65.2		A	Yes		672-0	0	1.12	----------	6	18	192					
	3	4	A	-	6	1,200	806	1929	975	70.1	84.8	69.4		O	Yes		627-42	0	0.56	----------	3	10	193	366	8	1		
	4	4	A	-	6	1,200	806	1930	975	70.1	84.8	70.2		O	Yes		633-57	0	0.58	----------	6	36	197	366	8	1		
	Plant					3,600	2,418		1,160				68.6			A								366	8	1	482
157	1	2	A	P	8	1,760	1,162	1930	1,400	64.9	76.8	82.0		O	Yes													
	2	2	A	P	8	1,760	1,162	1930	1,400	64.9	76.8	82.5		O	Yes		2,545-0	0	0.72	Cast Steel Piston Heads; Replaced by C.I. Heads; Rings; Comp. Valves.	1	15	---					
	Plant					3,520	2,324		2,550				82.3			A-C[i]					1	15	---	366	10	1		
																								366	10	1	598
2	1	4	A	-	6	1,150	772	1925	785	74.3	75.6	98.0		W	No													
	2	4	A	-	6	1,150	772	1925	785	74.3	75.6	97.9		W	No		2,384-7,450	0	2.85	Valve Parts; Minor parts	3	50	---	229	8	3		
	3	4	A	-	6	1,150	772	1925	785	74.3	75.6	97.7		W	No			0			2	7	---	148	8	2		
	Plant					3,450	2,316		2,355				97.8			A						1	1	---	146	8	2		
																								63	8	2	788
164	1	4	M	-	6	840	564	1926	542[h]	72.4	69.6	81.0		O	No													
	2	4	M	-	6	840	564	1926	529[h]	72.4	68.0	74.4		O	No													
	3	4	M	-	6	840	564	1926	550[h]	72.4	70.6	81.5		O	No		-------17,646--------		5.25	Rings, Bearings, Bushings for worn cylinders; Exhaust valves	-	--	---					
	4	4	M	-	6	840	564	1926	550[h]	72.4	70.6	83.2		O	No					Fuel oil & water lines	-	--	---	314	8	5		
	Plant					3,360	2,256		2,070[h]				80.0			A[f]								314	8	3	409
																								156	8	3	
3	1	4	M	-	8	400	269	1923	275	64.1	65.5	----		A	No			0			0	0	---					
	2	4	A	-	8	800	537	1924	540	72.7	73.1	----		A	No		818-0	0	0.26	Piston Rings	1	0.12	--					
	3	4	A	-	8	800	537	1926	540	72.7	73.1	----		A	No			0			0	0	-----	366	8	2		
	4	4	M	-	6	1,125	755	1927	700	72.3	67.0	----		A	Yes			0			0	0	---	366	8	3		
	Plant					3,125	2,098		860				45.4			B								366	8	2	113
720	1	2	M	P	6	840	564	1928	450	53.6	42.8	53.1		O	Yes		195-0	0	0.23	1 cylinder head; 18 pist'n rings 1 fuel line	0	0	100					
	2	2	M	P	6	840	564	1928	425	53.6	40.4	37.0		O	Yes		150-0	0	0.18	1 set scav. pump valves; 18 pist'n rings; 1 fuel pump	0	0	125					
	3	2	M	P	6	720	484	1927	400	46.0	38.0	51.3		O	Yes		205-0	0	0.29	1-cylinder head; 18 piston rings; 1 fuel pump	0	0	110					
	4	4	M	-	3	300	202	1926	225	64.7	72.1	53.8		A	No		25-0	0	0.08	3 Crank Bearings	0	0	50					
	5	4	M	-	2	380[k]	255	1922	200	70.1	55.0	43.6		A	No		0	0	0	0	0	0	10	366	12	2		
	Plant					3,080	2,069		1,000				46.8			B-E								366	12	1	222
																								252	8	2	
77	1	2	M	B	10	3,000	2,014	1931	1,700	61.4	51.8	42.8	42.8	O	Yes	D-e	---------	-	----	Experimental Bearings and fuel pump parts	1	0.00	2,738	252	8	3		
																								252	8	2	282
																								32	8	1	

TABLE V-INFORMATION COVERING MAINTENANCE AND OPERATING LABOR (PAGE 2)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	YEAR ENGINE STARTED TO WORK	PEAK LOAD DURING REPORTED PERIOD - GROSS K.W.	B.M.E.P. AT RATED B. H. P. - LBS. PER SQ. IN.	B.M.E.P. AT PEAK LOAD - 90% GENERATING EFFICIENCY	RUNNING ENGINE CAPACITY FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	PISTON COOLING (SEE NOTES)	ARE AIR FILTERS USED?	TYPE COOLING SYSTEM (SEE TEXT)	COST OF REGULAR ENGINE UPKEEP - TOTAL DOLLARS MATERIAL - EXTRA LABOR	COST OF REPAIRS FOR ENGINE ACCIDENTS - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	TOTAL ENGINE REPAIRS IN DOLLARS PER RATED B.H.P. PER YEAR	MAJOR ENGINE PARTS RENEWED DURING REPORTED PERIOD	NUMBER OF UNFORCED ENGINE SHUTDOWNS	TOTAL DURATION OF UNFORCED ENGINE SHUTDOWNS - HOURS	TOTAL DURATION OF ENFORCED ENGINE SHUTDOWNS - HOURS	TOTAL ENGINE MAINTENANCE TIME NOT INCLUDING ENFORCED SHUTDOWNS - HOURS	NUMBER OF SHIFTS IN PERIOD	NUMBER OF HOURS PER SHIFT	NUMBER OF ATTENDANTS PER SHIFT	OUTPUT PER MAN-HOUR - NET K.W. HRS.
109	3 2 2 A P 8	2SC	A-	Fp	675	453	1927	395	57.4	50.0	44.3		0	No													
	2 2 2 A P 8	2SC	A-	Fp	1125	755	1929	730	59.4	57.4	47.8		0	Yes													
	3 2 2 A P 8	2SC	A-	Fp	1125	755	1931	770	59.4	60.6	57.9		0	Yes		715		0.24	----------	0	103	200	366	8	1	
	Plant				2925	1963		1250				49.2			B				----------	-	0	240	366	8	1	
																					34	230	366	8	1	
																							212	8	1	92
7	2 4 M - 6		EM	-	350[m]	235	1925	225	100.3	96.1	58.8		A	Yes													
	2 4 M - 6		EM	-	350[m]	235	1925	225	100.3	96.1	54.8		A	Yes													
	3 4 M - 6		EM	-	350[m]	235	1925	200	100.3	85.3	58.9		A	Yes		1958 - 1040		1.10	1-Head {Wedges; Spray Valve Tips and Rods;	0	0	648[n]				
	4 4 M - 6		EM	-	750	504	1927	400	93.2	73.9	53.7		A	Yes					1-Cyl. {Governor Bearings; Exhaust Valve	0	0	744[n]				
	5 4 M - 6		EM	-	930	624	1930	620	85.2	84.6	61.4		A	Yes					Springs; Valve	0	0	0	366	8	2	
	Plant				2730	1833		907				57.9			D				Cage Studs	1	0.4	672[n]	366	8	2	177
732	1 4 A - 4				250	168	1915	---	74.1	---	---		A	Yes													
	2 4 A - 4				250	168	1916	---	74.1	---	---		A	Yes													
	3 4 A - 4				520	349	1921	---	74.0	---	---		W	Yes		8691 - 0		3.45									
	4 4 A - 4				750	504	1923	---	74.5	---	---		W	Yes													
	5 4 A - 4				750	504	1925	---	74.5	---	---		W	Yes													
	Plant				2520	1693		1470				50.4			B								366	8	2	
																							366	8	2	199
978	1 2 M P 6				840	564	1931	---	53.6	---	---		O	Yes		---------	---	---------					---	---	---	
	2 2 M P 6				840	564	1931	---	53.6	---	---		O	Yes		---------	---	---------					---	---	---	
	3 2 M P 6				840	564	1931	---	53.6	---	---		O	Yes		---------	---	---------					---	---	---	
	Plant				2520	1692		1800				87.6			-								---	---	---	
																										313
908	1 2 A P 5				1250	840	1925	800	62.5	59.6	69.8		W	No		-5354-		2.14	1-Piston Head;50 Piston Rings	-	---	---	366	8	2	
	2 2 A P 5				1250	840	1925	800	62.5	59.6	67.4		W	No					Top and Bottom Eccen. Straps	-	---	---	366	8	2	
	Plant				2500	1680		1600				68.5			B								366	8	2	393
93	1 2 M P 5				700	470	1928	---	53.6	---	48.0		O	Yes						-	---	---				
	2 2 M P 5				700	470	1928	---	53.6	---	51.3		O	Yes						-	---	---				
	3 2 M P 4				560	376	1928	---	53.6	---	54.3		O	Yes		2723		1.10	Cylinder Heads	-	---	---				
	4 4 A - 4				520	349	1914[o]	---	74.0	---	60.2		W	Yes					And Gaskets	-	---	---	369	8	2	
	Plant				2480	1665		1400				52.0			B								369	8	1	
																							369	8	1	344
111	1 4 A - 8				900	604	1928	600	72.6	72.1	----		A	No													
	2 4 A - 8				900	604	1928	600	72.6	72.1	----		A	No		-1,604-		0.41	Packing;Gaskets;	-	---	---	366	8	2	
	3 4 A - 6				675	453	1928	450	72.6	72.1	----		A	No					Air Compressor	-	---	---	366	8	2	
	Plant				2475	1661		1370			----				C				Valve Discs	-	---	---	366	8	2	
																							312	8	1	234
1149	1 2 M P 8				1200	806	1932	---	57.5	---	---		O	Yes		---------	---	---------					---	---	---	
	2 2 M P 8				1200	806	1932	---	57.5	---	---		O	Yes		---------	---	---------					---	---	---	
	Plant				2400	1612		1750				---			D								---	---	---	
																										202
60	1 4 M - 8				800	537	1924	550	60.3	61.6	25.6		A	No		---------	---	---------					---	---	---	
	2 4 M - 8				800	537	1924	550	60.3	61.6	24.0		A	No		---------	---	---------					---	---	---	
	3 4 M - 8				800	537	1924	550	60.3	61.6	24.4		A	No		---------	---	---------					---	---	---	
	Plant				2400	1611		940				24.8			D								366	8	1	
																							366	8	1	87
723	1 2 M C 6				300[p]	202	1925	190	29.4	27.7	74.6		A	No		---------	---	---------			0	0	54				
	2 2 M C 6				300[p]	202	1925	180	29.4	27.7	69.1		A	No		---------	---	---------			0	0	151				
	3 2 M P 6				720	484	1927	470	46.0	44.7	65.0		O	Yes		---------	---	---------			[0]	0	472	366	10	2	
	4 2 M P 7				1050	705	1931	700	57.5	57.1	67.7		O	Yes		---------	---	---------			0	0	119	366	10	2	
	Plant				2370	1593		1510				67.2			C								366	4	1	110
41	1 4 A - 3				520	349	1922	400	74.6	85.5	60.9		W	No						-	---	---				
	2 4 A - 4				760	510	1923	500	75.5	86.1	56.9		W	No		968		0.41	Valve Seats, Heads & Stems; Air Comp. Valves; Valves	-	---	---	366	8	2	
	3 4 A - 6				1,150	772	1928	900	75.5	88.0	70.8		W	No					and Valve Parts for Air Bottles	-	---	---	366	8	3	
	Plant				2,370	1,591		1,200				65.5			A								366	8	2	180
79	1 4 A - 3				225	151	1911	110	75.0	54.6	53.0		A	No													
	2 4 A - 3				225	151	1912	110	75.0	54.6	54.6		A	No													
	3 4 A - 6				600	403	1929	425	73.8	77.9	66.3		A	No		751-0		0.35	Piston Rings	0	0	---				
	4 4 A - 4				520	349	1923	350	74.0	74.2	69.2		W	No					Piston Rings	0	0	---	366	8	4	
	5 4 A - 6				600	403	1925	425	73.8	77.9	66.2		A	No					Piston Rings	0	0	---	366	8	2	
	Plant				2,170	1,457		1,000				66.4			B								366	8	2	140
5	1 2 M P 6				720	484	1926	---	46.0	---	---		O	-		---------	---	---------			-	---	---	---	---	---	
	2 2 M P 6				720	484	1927	---	46.0	---	---		0	-		---------	---	---------			-	---	---	---	---	---	
	3 2 M P 6				720	484	1927	---	46.0	---	---		O	-		---------	---	---------			-	---	---	---	---	---	
	Plant				2,160	1,452		1,440				94.4			-								---	---	---	
																										470
6	1 2 M C 6				300[p]	202	1926	---	29.4	---	---		A	-		---------	---	---------			-	---	---	---	---	---	
	2 4 A - 6				600	403	1926	---	69.8	---	---		A	-		---------	---	---------			-	---	---	---	---	---	
	3 4 A - 6				600	403	1927	---	69.8	---	---		A	-		---------	---	---------			-	---	---	---	---	---	
	4 4 A - 6				600	403	1928	---	69.8	---	---		A	-		---------	---	---------			-	---	---	---	---	---	
	Plant				2,100	1,411		1,700				97.4			-								---	---	---	
																										158
68	1 2 M C 4				240	161	1925	120	35.3	26.3	54.4		A	No						0	0	---				
	2 2 M C 6				360	242	1925	200	35.3	29.2	54.7		A	No						1	-	---				
	3 2 M P 4				560	376	1928	350	53.6	50.0	68.4		O	Yes		1303		0.63	Injection Pump; Cyl. Heads; Crank Bearing; Cyl. Heads; Scav. Pump Valves;	1	-	---	366	8	1	
	4 2 M P 6				900	604	1930	610	57.5	58.1	66.1		O	Yes					Injection Pump & Nozzle Parts	0	0	---	366	8	1	
	Plant				2,060	1,383		660				63.9			B								366	8	1	346
83	1 4 A - 6				600	403	1929	420	73.8	77.0	57.6		A	Yes													
	2 4 A - 4				400	269	1927	270	73.8	74.1	50.1		A	Yes		400-2,500		1.45	Piston Rings, Gaskets, Etc.	0	0	---	366	8	2	
	3 4 M - 8				1,000	671	1932	580	73.1	63.2	36.0		A	Yes						0	0	---	366	8	2	
	Plant				2,000	1,343		580				52.0			B								366	8	2	96
215	1 2 M P 7				980	658	1930	800[b]	53.6	65.2	64.5		O	Yes						0	0	---	366	8	1?	
	2 2 M P 7				980	658	1930	800[b]	53.6	65.2	63.7		O	Yes		83-0		0.04	----------	0	0	---	366	8	1?	
	Plant				1,960	1,316		1,400[b]				84.2			B								366	8	1?	
736	1 2 A P 6				1,125	755	1924	---	67.3	---	62.6		W	Yes		1,779-303		1.65	----------	0	0	608				
	2 4 A - 4				400	269	1922	---	77.2	---	79.0		A	Yes		445-76		1.30	----------	0	0	452				
	3 4 A - 4				400	269	1922	---	77.2	---	81.2		A	Yes		445-76		1.30	----------	0	0	453				
	Plant				1,925	1,293		---				73.2			B-E								366	12	1	
																							366	12	1	186

TABLE V- INFORMATION COVERING MAINTENANCE AND OPERATING LABOR (PAGE 3)

PLANT NUMBER	ENGINE DESIGNATION: 4-CYCLE; 2-CYCLE; INJECTION SYSTEM (SEE NOTES); CRANKING SYSTEM (SEE NOTES); NUMBER OF CYLINDERS	RATED B. H. P	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	YEAR ENGINE STARTED TO WORK	PEAK LOAD DURING REPORTED PERIOD - GROSS K.W.	B.M.E.P. AT RATED B. H. P LBS. PER SQ. IN.	B.M.E.P. AT PEAK LOAD - 90% GENERATING EFFICIENCY	RUNNING ENGINE CAPACITY FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	PISTON COOLING (SEE NOTES)	ARE AIR FILTERS USED?	TYPE COOLING SYSTEM (SEE TEXT)	COST OF REGULAR ENGINE UPKEEP - TOTAL DOLLARS MATERIAL - EXTRA LABOR	COST OF REPAIRS FOR ENGINE ACCIDENTS - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	TOTAL ENGINE REPAIRS IN DOLLARS PER RATED D.H.P PER YEAR	MAJOR ENGINE PARTS RENEWED DURING REPORTED PERIOD	NUMBER OF ENFORCED ENGINE SHUTDOWNS	TOTAL DURATION OF ENFORCED ENGINE SHUTDOWNS - HOURS	TOTAL ENGINE MAINTENANCE TIME NOT INCLUDING ENFORCED SHUTDOWNS - HOURS	NUMBER OF SHIFTS IN PERIOD	NUMBER OF HOURS PER SHIFT	NUMBER OF ATTENDANTS PER SHIFT	OUTPUT PER MAN-HOUR - NET K.W. HRS.
837	1 6 A - 4	750	504	1922	---	74.5	---	47.7		W	No											
	2 4 A - 6	450	302	1918	---	75.0	---	53.4		A	No											
	3 6 A - 3	225	151	1904	---	75.0	---			A	No		2,840-3,108	7,350-345	7.27	Cylinder; Cyl. Head; Connecting Rod; Crank Pin Boxes; 1 - "A" Frame	---	---	---	---	---	---
	4 4 A - 3	225	151	1904	---	75.0	---			A	No						---	---	---	366	8	2
	5 4 A - 3	225	151	1906	---	75.0	---			A	No						---	---	---	366	8	2
	Plant	1,875	1,259		670				48.9			A					---	---	---	366	8	2	117
1033	1 4 A - 4	500	336	----	300[b]	76.0	67.9	55.2		A	No			0		Piston Rings						
	2 4 A - 4	500	336	-----	310[b]	76.0	70.1	73.9		A	No			0		4-Exhaust Manifolds;2-Cyl	0	0	---			
	3 4 A - 4	500	336	-----	305[b]	76.0	69.0	61.2		A	No		-3,099-	0	1.68	Heads;1-Cyl Liner;1-Piston	0	0	---	366	8	1
	4 4 A - 4	350	235	-----	200[b]	70.7	60.2	40.1		A	No			0		Pins;Air Comp.Liner	0	0	---	314	8	3
	Plant	1,850	1,243		922[b]				64.8			B				None	0	0	---	314	8	2
																				104	8	1
158	1 2 A P 8	1,760	1,182	1930	1,100	64.9	60.4	32.7	32.7	O	Yes	D-E	-560-	0	0.32	Piston Rings & Valves	2	0.5	30	366	10	1	140
212	1 4 A - 8	875	588	1929	560	75.1	71.6	71.4		A	No		39-1,350[b]	0	0.79	Minor Parts	0	0	--	366	8	2
	2 4 A - 8	875	588	1929	530	75.1	67.7	72.2		A	No			0						366	8	2
	Plant	1,750	1,176		560				71.8			A					0	0	--	366	8	2
																				---	8	1
722	1 2 M C 4	200[p]	134	1923	130	29.4	28.5	75.9		A	No		--------	-------	-----	----------	0	0	0			
	2 2 M C 6	300[p]	202	1923	190	29.4	27.7	82.8		A	No		--------	-------	-----	----------	0	0	3			
	3 2 M P 6	840	564	1929	560	55.6	53.2	58.8		O	Yes		--------	-------	-----	----------	0	0	6	366	10	2
	4 4 A - 3	365	245	1916	240	73.8	72.3	75.2		A	No		--------	-------	-----	----------	0	0	27	366	10	2
	Plant	1,705	1,145		1,120				62.4			C								366	4	1	56
735	1 2 M P 6	840	564	1928	560	53.6	53.2	72.6		O	Yes		2,041-470	0	2.99	Both Units Completely Overhauled in Jan. to Mar.	0	0	1566	366	4	1
	2 2 M P 6	840	564	1928	560	53.6	53.2	68.0		O	Yes		1,020-235	0	1.50	Main bearings & Rings replaced and on No.2 1 Crank Bearing and Rings Replaced on No. 1	0	0	783	366	10	1
	Plant	1,680	1,128		1,120				69.7			B-E								366	10	1	386
18	1 2 M C 6	450	302	1922	---	44.3	---	-----		A	---		----------	---------	----	----------	-	---	---	---	--	-
	2 4 A - 6	600	403	1926	---	69.8	---	-----		A	---		----------	---------	----	----------	-	---	---	---	--	-
	3 4 A - 6	600	403	1928	---	69.8	---	-----		A	---		----------	---------	----	----------	-	---	---	---	--	-
	Plant	1650	1108		1050				62.4			-								---	--	-	211
88	1 4 A - 3	285	191	1920	---	73.3	---	57.4		A				0			0	0	---			
	2 4 A - 3	285	191	1920	---	73.3	---	50.9		A				0			0	0	---			
	3 4 A - 3	300	202	1925	---	77.1	---	72.8		O	Yes		261-0	0	0.16	Minor Parts Only	0	0	---	356	8	3
	4 2 A P 5	750	504	1932	---	64.3	---	58.2		-	---			0			0	0	---	356	8	2
	Plant	1620	1088		700				58.6			A								356	8	2
																				70	8	1	122
8	1 4 A - 4	400	269	1921	220	77.2	63.1	42.7		A	No		--------	--------	-----	Four Spray Valve Stems	0	0	---			
	2 4 A - 5	560	376	1922	150	73.4	20.3	50.0		O	No		--------	--------	-----	And Seats; Also Minor	0	0	---	366	8	1
	3 4 A - 6	600	403	1926	450	69.8	78.0	65.0		A	Yes		--------	--------	-----	Parts	0	0	---	366	8	2
	Plant	1660	1048		600				55.0			B-E								366	8	2	111
1154	1 4 A - 6	750	504	1931	---	74.7	----	46.4		A	Yes		139-0	0	0.09	Minor Parts	0	0	---		8	2
	2 4 A - 6	750	504	1931	---	74.7	----	46.5		A	Yes			0			0	0	---	314	8	2
	Plant	1500	1008		650				46.5			A								314	8	2	101
132	1 4 A - 3	375	252	1929	250	74.7	74.2	59.5		A	Yes			0			0	0	---			
	2 4 A - 4	500	336	1929	345	74.7	76.6	72.0		A	Yes		27-0	0	0.02	----------	0	0	---	366	8-10	2
	3 4 A - 5	625	420	1929	440	74.7	78.2	69.9		A	Yes			0		----------	0	0	---	366	10	1
	Plant	1500	1008		540				65.7			B-E								366	10	1	120
289	1 4 A - 4	250	168	1920	---	74.1	----	69.6		A	Yes			0			0	0	---			
	2 4 A - 4	250	168	1920	---	74.1	----	68.5		A	Yes		296-0	0	0.20	Afr Compr. Cooling Coils	0	0	---			
	3 4 A - 4	365	245	1915	---	73.8	----	64.7		A	Yes			0		Air Compr. Cooling Coils	0	0	---	352	8	2
	4 4 A - 6	600	403	1927	---	73.8	----	78.8		A	Yes			0		Air Compr. Cooling Coils	0	0	---	352	8	3
	Plant	1465	984		840				71.1			A				----------	0	0	---	352	8	2
																	u			42	8	2	124
496	1 4 A - 4	400	269	1925	280	75.4	78.6	52.6		A	Yes		120-132	0	0.63	Injection Valve Cage, Crank Bearing	0	0	1968			
	2 4 A - 3	300	201	1925	200	75.4	74.8	41.4		A	Yes		0	0	0	----------	0	0	1888	365	10	2
	3 4 A - 6	750	504	1928	500	74.4	74.0	48.4		A	Yes		180-141	0	0.43	2-Power Main Bearing Shells	0	0	2010	365	10	1
	Plant	1450	974		650				45.5			D								365	10	1	75
70	1 2 M P 4	560	376	1928	380	53.6	51.3	54.6		O	Yes			0								
	2 2 M P 4	560	376	1928	380	53.6	54.2	53.2		O	Yes		809-0	0	0.63	Fuel Injec Pump; Cyl Head; Fuel Injec. Pump; Cyl Head; Piston Rings	2	0.5	---	366	8	2
	3 2 M C 6	300[p]	202	1923	190	29.4	27.7	64.0		A	No			0		None	---	---	---			
	Plant	1420	954		560				54.3			A								366	8	1
																				366	8	1	143
198	1 2 - P 8	1400	941	1932[v]	1000	57.5	61.1	83.6	83.6	O	Yes	D	-248-		0.82	2 -Cyls Replaced at Mfr's Expense	8	150	203	366	8	2
																				366	8	1
163	1 4 M - 4	400	269	1924	270	64.7	64.9	51.4		A	No			0								
	2 4 M - 4	400	269	1927	270	64.7	64.9	49.6		A	No		704-0	0	0.50	Wrist Pin;Connect Rod Bear. Pist. Rings	-	---	---	314	8	2
	3 4 M - 6	600	403	1929	400	64.7	65.2	52.7		A	No			0		None	-	---	---	314	8	2
	Plant	1400	941		940				50.4			A				None	-	---	---	314	8	2
																				156	8	6
154	1 4 A - 6	600	403	1927	---	72.7	---	---		A	--		-------	-------	----	----------	-	---	---	---	-	-
	2 4 A - 4	400	269	1926	---	72.7	---	---		A	--		-------	-------	----	----------	-	---	---	---	-	-
	3 4 A - 4	400	269	1925	---	72.7	---	---		A	--		-------	-------	----	----------	-	---	---	---	-	-
	Plant	1400	941		600				81.9			-								---	-	-	
																							144
888	1 4 A - 3	300	202	1925	---	72.7	---	40.1		A	Yes					6 Piston Rings	0	0	504			
	2 4 A - 4	400	269	1925	---	72.7	---	54.2		A	Yes		-----2929-----		2.13	8 Piston Rings	1	48	672	366	8	2
	3 4 A - 6	875	453	1931	---[b]	72.7	---	49.4		A	Yes						2	76	---	366	8	2
	Plant	1375	924		820[b]				49.8			A								366	8	2	123
517	1 4 M - 6	750	504	1932[w]	360	77.6	55.4	25.6		A	Yes		56-0	0	0.04	----------	0	0	125	353	8	1
	2 4 A - 5	625	420	1930	420	73.2	73.2	30.8		A	Yes			0		Fuel Pump Plungers	1	0.1		353	6	1
	Plant	1375	924		420				27.9			D-E				Compressor Valve Discs.				353	8	1
																				36	8	1	120
1016	1 4 A - 4	365	245	1922	280	73.8	78.3	54.2		A	Yes		-------	--------	----	Piston Rings	0	0	10	---	8	1
	2 4 A - 6	200	134	1924	120	77.2	69.1	74.3		A	Yes		-------	--------	----	Valves	0	0	35	---	8	1
	3 2 A P 6	800	538	1926	525	61.9	60.4	60.9		O	Yes		-------	--------	----	Piston Rings	1	1.7	178	---	8	1
	Plant	1365	917		690				57.4			D-E								---	8	1	---

TABLE V INFORMATION COVERING MAINTENANCE AND OPERATING LABOR (PAGE 4)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	NUMBER OF CYLINDERS	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	YEAR ENGINE STARTED TO WORK	PEAK LOAD DURING REPORTED PERIOD - GROSS K.W.	B.M.E.P. AT RATED B. H. P. - LBS. PER SQ. IN.	B.M.E.P. AT PEAK LOAD - 90% GENERATING EFFICIENCY	RUNNING ENGINE CAPACITY FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	PISTON COOLING (SEE NOTES)	ARE AIR PISTONS USED?	TYPE COOLING SYSTEM (SEE TEXT)	COST OF REGULAR ENGINE UPKEEP - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	COST OF REPAIRS FOR ENGINE ACCIDENTS - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	TOTAL ENGINE REPAIRS IN DOLLARS PER RATED B.H.P. PER YEAR	MAJOR ENGINE PARTS RENEWED DURING REPORTED PERIOD	NUMBER OF ENFORCED ENGINE SHUTDOWNS	TOTAL DURATION OF ENFORCED ENGINE SHUTDOWNS - HOURS	TOTAL ENGINE MAINTENANCE TIME NOT INCLUDING ENFORCED SHUTDOWNS - HOURS	NUMBER OF SHIFTS IN PERIOD	NUMBER OF HOURS PER SHIFT	NUMBER OF ATTENDANTS PER SHIFT	OUTPUT PER MAN-HOUR - NET K.W. HRS.
886	1 2 2 M C 3	2	M	2	120	81	1927	---	35.3	----	----		A	No													
	2 2 2 M C 3	2	M	3	200[p]	134	1925	---	29.4	----	----		A	No													
	3 2 2 M C 6	2	M	6	360	242	1929	---	35.3	----	----		A	No													
	4 4 4 A - 5	4	A	5	625	420	1931	---	73.2	----	----		A	No													
	Plant				1305	877		380				39.3			D	-793-		0.61					366	8	1	
																							366	8	1	
																							366	8	1	101
13	1 4 4 A - 4	4	A	4	275	185	1923	180	75.8	73.8	62.2		A	No		407-0	0	1.48	Exhaust Valve Parts;	0	0	220				
	2 4 4 A - 4	4	A	4	200	134	1923	140	73.5	76.8	60.3		A	No		67-0	0	0.33	Compressor Repairs	0	0	160	366	8	1	
	3 4 4 A - 4	4	A	4	750	504	1925	425	73.8	62.2	46.8		W	No		217-0	0	0.29		0	0	120	366	8	1	
	Plant				1,225	823		425				57.4			A								366	8	1	134
1063	1 2 M F 8	2	M	8	1,200	806	1931	1,000	57.5	71.3	70.5	70.5	O	Yes	B-E	200-122	0	0.87	Minor Parts	0	0	60	366	7	1[r]	
																							366	8	1[r]	
725	1 4 4 A - 6	4	A	6	600	403	1926	---	69.8	----	----		A	No													
	2 4 4 A - 4	4	A	4	400	269	1925	---	69.8	----	----		A	No		80-15	680-15	0.66	Air Compressor	-	-	---				
	3 2 M C 4	2	M	4	200[b]	134	1924	---	29.4	----	----		A	No					Cylinder	-	804	---	366	8	2	
	Plant				1,200	806		640				74.4			B-E								366	8	1	284
451	1 2 M F 4	2	M	4	600	403	1931	420	57.5	60.0	----		O	Yes		-167-	0	0.14	Minor Parts	0	0	---	366	8	1	
	2 2 M F 4	2	M	4	600	403	1931	420	57.5	60.0	----		O	Yes			0			1	0.13	---	366	8	1	
	Plant				1,200	806	1931	470				46.9			B-E								366	8	1	149
333	1 4 4 A - 6	4	A	6	1,200	806	1929	---	70.1	---	77.2	77.2	O	No	B	37-451	0	0.41	2-I.P.Comp.Valve Seats; 1-I.P. Comp.Ring; 2 L.P.Comp.Rings; 6 2-Valve Nut Gaskets; 2 Inj.Pump Suction Valve Springs; 1-Inj.Pump Disch. Valve Spring	0		---	366	8.5	1	
																							366	8.5	1	104
17	1 4 4 A - 6	4	A	6	600	403	1926	----	69.8	----	----		A	--		------	------	----	----------	-		---	---	-	-	
	2 4 4 A - 6	4	A	6	600	403	1926	----	69.8	----	----		A	--		------	------	----	----------	-		---	---	-	-	
	Plant				1,200	806		1,000				58.3			--											208
16	1 4 4 A - 6	4	A	6	600	403	1927	400	69.8	69.3	----		A	Yes		50-10	0	0.10	----------	0	0	48				
	2 2 2 M C 4	2	M	4	240	161	1925	160	35.3	35.1	----		A	Yes		100-25	0	0.52	Piston	0	0	460				
	3 2 M C 6	2	M	6	360	242	1925	240	35.3	35.0	----		A	Yes		50-10	0	0.17	----------	0	0	240	366	4	1	
	Plant				1,200	806		800				98.2			B-E								366	4	1	170
14	1 2 A F 3	2	A	3	450	302	1926	---	54.5	----	----		W	Yes		-2785-	0	2.32	Cyl. Head; Liners;	0	0	---	366	8	1	
	2 2 A F 4	2	A	4	750	504	1928	---	63.8	----	----		W	Yes			0		Spiral Gears	0	0	---	366	8	1	
	Plant				1,200	806		---				----			A								366	8	1	120
878	1 2 M F 4	2	M	4	560	376	1929	400	53.6	67.0	69.5		O	Yes		-942	0	0.81	13- Piston Rings	10	3.5	---				
	2 2 M C 4	2	M	4	200[p]	134	1919	120	29.4	26.3	78.5		A	No			0		None	0	9	---	366	10	1	
	3 4 4 A - 4	4	A	4	400	269	1924	275	69.8	71.4	82.3		A	No			0		11- Piston Rings	2	1.5	---	366	10	2	
	Plant				1,160	779		790				74.6			D-E								366	10	1	128
193	1 4 4 A - 5	4	A	5	675	453	1931	450	74.6	74.1	47.9		A	Yes		0-19	0	0.03	Piston Rings Furnished	-	---	---	---	8	2	
	2 4 4 A - 6	4	A	6	480	322	1932[x]	330	78.0	79.9	42.7		A	Yes		0-31	0	0.06	Originally with engines	-	---	---	-----	8	2	
	Plant				1,155	775		450				45.5			D								---	8	1	99
616	1 4 4 A - 3	4	A	3	300	202	1923	200	77.2	76.4	70.4		A	No			0		Minor parts This Year;							
	2 2 2 M C 2	2	M	2	100[p]	67	1920	50	29.4	21.9	90.0		A	No		2800-290	0	2.69	But cost includes final payment on Cyl. Liners	0	0	---	366	8	2[r]	
	3 4 4 A - 4	4	A	4	750	504	1925	500	74.5	74.0	50.1		W	No			0		No.3 Unit--Bought in 1931	0	0	---	366	8	1[r]	
	Plant				1,150	773		500				56.5			B								366	8	1[r]	---
887	1 2 M C 3	2	M	3	150[p]	101	1922	---	29.4	-----	-----		A	No						-		---				
	2 2 A F 4	2	A	4	440	295	1930	---	54.7	-----	-----		-	Yes		-68-		0.06		-		---	366	8	1	
	3 4 M - 5	4	M	5	550	369	1928	---	71.1	-----	-----		A	Yes						-		---	366	8	1	
	Plant				1,140	765		320				45.9			D-E								366	8	1	125
95	1 2 M F 4	2	M	4	560	376	1929	---	53.6	-----	81.4		O	Yes		-11-		0.01	Gaskets	-		---				
	2 2 M F 4	2	M	4	560	376	1929	---	53.6	-----	85.4		O	Yes						-		---				
	Plant				1,120	752		450				84.2			B								366	12	1	83
96	1 4 4 M - 6	4	M	6	600	403	1925	---	64.6	-----	53.6		A	Yes					Fuel Nozzles	-		---				
	2 4 M - 3	4	M	3	300	202	1923	---	64.6	-----	38.0		A	Yes		-452-		0.41	And Gaskets	-		---	366	8	1	
	3 2 M C 4	2	M	4	200[p]	134	1921	---	29.4	-----	45.5		A	Yes									366	8	1	
	Plant				1,100	739		510				41.2			B								366	8	1	83
143	1 2 M C 6	2	M	6	360	242	1928	230	35.3	33.6	----		A	Yes			0		1- Bearing;	0	0	---				
	2 2 M C 6	2	M	6	360	242	1928	230	35.3	33.6	----		A	Yes		416-27	0	0.41	Piston Rings	0	0	---	366	8	1	
	3 2 M C 6	2	M	6	360	242	1928	230	36.3	33.6	----		A	Yes			0		And Gaskets	0	0	---	366	8	1	
	Plant				1,080	726		325				----			B								366	8	1	137
78	1 4 4 - 4	4	-	4	400	269	1928	300[b]	64.6	72.0	30.5		A	Yes		----------	------	----	----------	0	0	456	337	0	1	
	2 4 4 - 6	4	-	6	660	443	1930	500[b]	66.7	75.3	50.5		A	Yes		----------	------	----	----------	7	53	532	337	6	1	
	Plant				1,060	712		400[b]				44.4			A								337	8	1	186
519	1 2 M C 4	2	M	4	200[b]	134	1925	145	29.4	31.8	----		A	No		----------	------	----	Bearings; 1-Piston; Piston Rings	-		---				
	2 2 M C 6	2	M	6	300[b]	202	1922	220	29.4	32.0	----		A	No		----------	------	----	Bearings; Crankshaft; Piston & Rings	-		---	366	8	1½	
	3 2 M F 4	2	M	4	560	376	1929	350	53.6	49.9	----		O	No		----------	------	----	Bearings; Scav. Pump Valves; Piston Rings	-		---	366	8	1	
	Plant				1,060	712		400				----			A								366	8	1	152
1144	1 2 M C 3	2	M	3	210	141	1931	---	35.3	---	55.3		A	No		----------	------	----								
	2 2 M F 6	2	M	6	420	282	1931	---	35.3	---	66.4		A	No		----------	------	-----	Minor Parts	0	0	---	366	8	1	
	3 2 M O 6	2	M	6	420	282	1931	---	35.3	---	65.8		A	No		----------	------	-----		0	0	---	366	8	1	
	Plant				1050	705		495				62.6			C								366	8	1	175
259	1 2 M C 3	2	M	3	210	141	1931	135	35.3	33.8	55.0		A	No			0									
	2 2 M C 6	2	M	6	360	242	1926	165	35.3	24.1	41.4		A	No		11-0	0	0.01	None	0	6	0				
	3 2 M C 4	2	M	4	480	322	1928	210	46.0	30.0	45.6		O	No			0			0	0	0	366	8	1	
	Plant				1050	705		220				49.5			C								366	8	1	83
203	1 2 M F 5	2	M	5	525	352	1931	210	52.9	31.5	59.4		O	Yes		0	0		1-Piston; 1-Cylinder	1	120	60	369	8	2	
	2 2 M F 5	2	M	5	525	352	1931	210	52.9	31.5	52.2		O	Yes		0	0	0	No Charge by Manufacturer)	0	0		369	8	1	
	Plant				1050	704		420				55.7			D-E								369	8	1	124
801	1 2 A F 4	2	A	4	1000	671	1927	700[y]	62.5	65.1	85.2	85.2	W	Yes	A	1,371-0	0	1.37	Rings; Crank Bearing; Piston Rods; Piston Head	0	0	333	352	8	1	
																							352	8	1	536
738	1 4 4 A - 6	4	A	6	1000	671	1918[z]	600	72.4	64.8	82.3	82.3	A	No	B-E	3,285-378	0	3.66	Overhauled; 1-Liner; 1-Piston	0	0	1250	366	12	1	
																			Main Bearings; Crank & Piston Pin Bearings; Some New Rings				366	12	1	37
1061	1 2 M F 7	2	M	7	980	658	1930	700	53.6	57.0	94.5	94.5	O	No	D	---------1751------		2.97	New Cams & Fuel Pump	4	29	503	366	8	2[r]	
																							366	8	1[r]	---

TABLE V- INFORMATION COVERING MAINTENANCE AND OPERATING LABOR (PAGE 5)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTE 3)	NUMBER OF CYLINDERS	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	YEAR ENGINE STARTED TO WORK	PEAK LOAD DURING REPORTED PERIOD - GROSS K.W.	B.M.E.P. AT RATED B. H. P. - LBS. PER SQ. IN.	B.M.E.P. AT PEAK LOAD - 90% GENERATING EFFICIENCY	RUNNING ENGINE CAPACITY FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	PISTON COOLING (SEE NOTES)	ARE AIR FILTERS USED?	TYPE COOLING SYSTEM (SEE TEXT)	COST OF REPAIR ENGINE UPKEEP - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	COST OF REPAIRS FOR ENGINE ACCIDENTS - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	TOTAL ENGINE REPAIRS IN DOLLARS PER RATED B.H.P. PER YEAR	MAJOR ENGINE PARTS REPAIRED DURING REPORTED PERIOD	NUMBER OF ENFORCED SHUTDOWNS	TOTAL DURATION OF ENFORCED ENGINE SHUTDOWNS - HRS.	TOTAL ENGINE MAINTENANCE TIME NOT INCLUDING ENFORCED SHUTDOWNS - HOURS	NUMBER OF SHIFTS IN PERIOD	NUMBER OF HOURS PER SHIFT	NUMBER OF ATTENDANTS PER SHIFT	OUTPUT PER MAN-HOUR - NET K.W. HRS.
863	1 2	M	-	3		300	202	1925	150	72.7	54.0	74.6			A	No											
	3 4	M	-	6		675	453	1927	400	72.7	64.2	85.3			A	Yes											
	Plant					975	655		550				81.6				D-E											
1065	1 2	M	P	6		900	605	1931	500	57.5	47.5	83.3	83.3	O	Yes	B-E	300-77	0	0.42	None	0	0	48	---	-	-	---
560	1 2	M	C	4		260	134	1924	125	37.2	34.7	----		A	No		192-38	0	1.40	4 New Pistons & Rings	0	0	125				
	2 3	M	C	4		260	134	1924	125	37.2	34.7	----		A	No		941-198	0	5.69	1 New Piston & Rings	0	0	96	366	8	2	
	4 4	A	-	5		500	336	1929	310	72.6	67.0	----		A	No		155-52	0	0.41	Fuel Pump Plungers and Miscellaneous Shop Work	0	0	24	366	8	1	
	Plant					900	604		310				38.2			A								366	8	1	61
260	1 2	A	P	6		900	605	1928	600	64.4	62.9	47.0	47.0	O	No	A	11-0	0	0.01	Gaskets	0	0	---	---	-	1F	---
98	1 2	M	C	6		360	242	1926	---	35.3	----	60.2		A	Yes												
	2 3	M	C	6		360	242	1929	---	35.3	----	59.2		A	Yes		-----454--------		0.51	Bearings and Gaskets	-	---	---				
	3 4	M	C	3		180	121	1926	---	35.3	----	66.8		A	Yes						-	---	---	366	8	1	
	Plant					900	605		425				61.5			D								366	8	1	
53	1 2	A	C	4		200P	134	1923	140	29.4	30.7	71.2		A	No					Rebabbitt Lower Half All M.B's And Six Crank Bearings; All new Piston Rings All Cyls. Rebored; Piston Rings and Pins; Rebabbitt Lower Half All M.B's and All Crank Bearings Minor Parts				366	8	1	171
	2 2	M	C	6		300P	201	1923	200	29.4	29.2	70.7		A	No		-----7487------		8.32		-	---	---	366	8	1	
	3 4	A	-	4		400	269	1925	260	73.8	71.3	68.4		A	No						-	---	---	366	8	1	
	Plant					900	604		530				69.0			E-h								366	8	1	
199	1 1	Y	-	2		550	333	1929	290	66.7	52.5	32.6		A	Yes												
	2 4	M	-	2		200K	134	1922	125	72.6	67.8	58.4		A	No					10 New Piston Rings	0	0	64				
	3 4	M	-	1		100K	67	1915	0	72.6	0	----		A	No					None	0	0	0	366	8	1	
	Plant					850	570		290				32.8			D				None	0	0	0	366	8	1	
																								366	8	1	114
1056	1 2	M	P	6		840	564	1929	600	53.6	57.0	76.2	76.2	O	Yes	D	-------700-------		1.35	Main Bearings	2	360	428	366	8	2F	
																								366	8	1F	
619	1 2	M	P	6		840	564	1929	550	53.6	52.3	76.5	76.5	O	Yes	B-E	104-0	--786aa	1.06	Crank Shaft Bearings aa	0	0	120	366	6	1	262
494	1 2	M	P	6		840	564	1930	500	53.6	47.5	74.5	74.5	O	Yes	B-E	200-09	0	0.34	Minor Parts	0	0	852	314	6	1	256
153	1 2	M	P	6		840	564	1929	500	53.6	53.2	82.7	82.7	O	---	--	-------	-------	----	----------	-	---	---	---	-	-	151
731	1 4	A	-	4		825	554	1926	600	74.9	81.1	68.2	68.2	W	Yes	D	906-0	0	1.10	----------	0	0	---	366	9	1F	
																								366	9	3F	
																								366	9	1F	---
648	1 4	M	-	4		400	269	1928	200	64.6	48.0	70.4		A	Yes		0	0	0	----------	0	0	---				
	2 4	D	-	4		400	269	1928	200	64.6	48.0	70.0		A	Yes		0	492-0bb	1.23	Piston and Liner	1	672	---	314	10	1	
	Plant					800	538		400				70.2			B-E								314	10	1	170
421	1 4	A	-	8		800	537	1930	525	72.7	71.1	69.6	69.6	A	Yes	A	0	0	0	----------	0	0	---	366	8	4F	
																								366	8	2F	
																								366	8	2F	
112	1 2	M	C	4		200P	134	1925	136	29.4	29.8	77.1		A	No												
	2 2	M	C	4		240	161	1927	160	35.3	35.1	75.4		A	No		93-0	0	0.13	Piston Rings and Head Gaskets	0	0	---	349	10	1	
	3 2	M	C	6		300P	202	1925	190	29.4	27.7	76.1		A	No			0			0	0	---	349	4	1	
	Plant					740	497		420				75.8			D-E								349	10	1	
																								51	10-4	1	164
716	1 2	M	C	6		360	242	1926	160	35.3	23.4	32.5		A	No					3- Crank Bearings; 2-M.B.'s	-	---	---				
	2 2	M	C	6		360	242	1926	160	35.3	23.4	33.4		A	No		--------676------		0.94	18 Piston Rings	-	---	---				
																				3- Crank Bearings; 1-Lub.Oil Sump Pump; 16 Piston Rings	1	---	---	366	12	2F	
	Plant					720	484		160				33.0			B								366	12	1F	
532	1 2	M	C	6		360	242	1929	240	35.3	35.0	----		A	Yes												
	2 2	M	C	6		360	242	1929	240	35.3	35.0	----		A	Yes		---------508----		0.71	Piston Rings	0	0	---	366	8	1	
	Plant					720	484		400				54.0			D-E					0	0	---	366	8	1	
																								366	8	1	149
527	1 2	M	C	6		360	242	1930	240	35.3	35.0	----		A	Yes		84-0	0	0.23	8 Rings on each Piston replaced by one-piece Double Seals	2	0.12	---	366	8	1	
	2 2	M	C	6		360	242	1930	240	35.3	35.0	----		A	Yes		156-0	0	0.43	All New Rings	2						
	Plant					720	484		365				39.6			D								366	8	1	
																								366	8	1	110
170	1 2	M	C	6		360	242	1929	---	35.3	----	----		A	No		--------	-------	----	1-Seized Piston & Cyll	3	23	----				
	2 2	M	C	6		360	242	1929	---	35.3	----	----		A	No		--------	-------	----	----------	0	0	----				
	Plant					720	484		460				58.2			B-E								312	10	2F	---
67	1 2	M	C	6		360	242	1925	210	35.3	30.6	81.5		A	No												
	2 2	M	C	6		360	242	1925	210	35.3	30.6	81.4		A	No		--------339------		1.17	1-Piston; 1Inj. Nozzles 1-Connecting Rod; 1-Cyl. Head	-	---	---	366	8	1F	
																								366	8	1F	
	Plant					720	484		210				81.5			A								366	8	1F	
																								52	12	1F	---
19	1 2	M	C	2		100D	67	----	---	28.4	----	----		A	--		---------	-------	----	----------	-	---	---	---	--	-	
	2 2	M	C	4		240	161	1927	---	45.0	----	----		A	--		---------	-------	----	----------	-	---	---	---	--	-	
	3 2	M	C	4		360	242	1927	---	44.3	----	----		A	--		---------	-------	----	----------	-	---	---	---	--	-	
	Plant					700	470		205				48.8			--											65
411	1 2	M	C	4		200P	134	1914	100	29.4	21.9	----		A	No		0	0	0	----------	0	0	---				
	2 2	M	C	2		120	81	1926	70	35.3	30.5	----		A	No		1-0	0	0.01	Gaskets	0	0	---	366	8	1	
	3 2	M	C	6		360	242	1930	220	35.3	32.1	----		A	No		40-0	0	0.11	1- Inj. Valve	0	0	---	366	8	1	
	Plant					680	457		220				39.7			B-E								366	8	1	70
529	1 2	M	C	2		100D	67	1922	55	29.4	24.1	----		A	No		0	0	0								
	2 2	M	C	2		100D	67	1922	55	29.4	24.1	----		A	No		0	0	0	Minor Parts	-	---	---				
	3 2	M	C	2		120	81	1927	65	35.3	28.3	----		A	No		5-10	0	0.13		-	---	---				
	4 2	M	F	6		300	201	1931	180	50.8	45.5	----		O	Yes		50-25	5-10	0.30	Inj; Nozzle Parts	-	---	---	348	10	1	
	Plant					620	416		180				38.4			D								348	10	1	
																								350	8	1	52
106	1 4	A	-	6		600	403	1929	510	69.8	70.0	71.4	71.4	A		-	------	-------	----	----------	-	---	---	---	--	-	128
1096	1 4	A	-	6		600	403	1928	420	73.8	76.9	69.9	69.9	A	No	D	100-50	680-200	1.72	Gor. Gears & Thrust Bearings; failure due to lub. oil failure; Lub. Syetem now changed	2	192	72	366	4	1	
																								366	4	1	242
1094	1 4	A	-	6		600	403	1928	410	73.8	75.1	78.0	78.0	A	No	D	150-64	0	0.36	Minor Parts	0	0	60	366	3	1	
																								366	3	1	261
644	1 2	M	C	4		240	161	1931	156	35.3	34.2	----		A	No		35-0	0	0.06	Gaskets	0	0	---	366	10	1	
	2 2	M	C	6		360	242	1931	240	35.3	35.0	----		A	No			0			0	0	---	366	10	1	
	Plant					600	403		257				59.8			C								366	10	1	
																								366	10	1	77
61	1 4	M	-	3		300	202	1928	195	64.7	62.5	66.7		A	No		475-218	0	2.31	Intermediate Cyl.Heads	2	1.5	---	366	9	1	
	2 4	M	-	3		300	202	1928	220	64.7	70.5	62.5		A	No		522-193	0	2.38	Intermediate Cyl.Heads (due to Scale and cold water)	1	1	---	366	9	1	
	Plant					600	404		415				64.3			B								366	9	1	140

TABLE V -INFORMATION COVERING MAINTENANCE AND OPERATING LABOR (PAGE 6)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	NUMBER OF CYLINDERS	RATED B. H. P.	EQUIVALENT K. W. - 90% GENERATING EFFICIENCY	YEAR ENGINE STARTED TO WORK	PEAK LOAD DURING REPORTED PERIOD - GROSS K.W.	B. M. E. P. AT RATED B. H. P. LBS PER SQ. IN.	B. M. E. P. AT PEAK LOAD 90% GENERATING EFFICIENCY	RUNNING ENGINE CAPACITY FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	PISTON COOLING (SEE NOTES)	ARE AIR FILTERS USED?	TYPE COOLING SYSTEM (SEE TEXT)	COST OF REGULAR ENGINE UPKEEP - TOTAL DOLLARS- MATERIAL - EXTRA LABOR	COST OF REPAIRS FOR ENGINE ACCIDENTS - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	TOTAL ENGINE REPAIRS IN DOLLARS PER RATED B.H.P. PER YEAR	MAJOR ENGINE PARTS RENEWED DURING REPORTED PERIOD	NUMBER OF ENFORCED ENGINE SHUTDOWNS	TOTAL DURATION OF ENFORCED ENGINE SHUTDOWNS - HOURS	TOTAL ENGINE MAINTENANCE TIME NOT INCLUDING ENFORCED SHUTDOWNS - HOURS	NUMBER OF SHIFTS IN PERIOD	NUMBER OF HOURS PER SHIFT	NUMBER OF ATTENDANTS PER SHIFT	OUTPUT PER MAN-HOUR - NET K.W. HRS.
32	1 | 4 | M | - | 5					600[u]	403	1928	450	74.6	83.3	77.9	77.9	A	No	A	30 - 10	41 - 36	0.20	3 - Intermediate Cyl. Heads; Small pinion of Fuel Distrib.	3	24	120	366 366	12 12	1 1	---
103	1 2 M C 4					240	161	1927	---	35.3	----	51.2		A	Yes													
	2 2 M C 4					200P	134	1920[cc]	---	29.4	----	57.6		A	Yes		{------846-------}		1.43	Cyl. Heads And Gaskets	-	---	---	366	8	1	
	3 2 M C 3					150P	101	1923	---	29.4	----	46.5		A	Yes									366	8	1	
	Plant					590	396		250				51.4			D								366	8	1	96
862	1 2 M C 2					75P	50	1920	40	29.1	23.3	----		A	No		0	0	0	----------	0	0	0				
	2 2 M C 2					75F	50	----	40	29.1	23.3	----		A	No		0	0	0	----------	0	0	0				
	3 2 M C 3					180	121	1925	110	35.3	32.1	----		A	No		62 - 134	0	1.09	New Bearings & Rings	0	0	40	366	8	1	
	4 4 A - 3					258	173	1918[dd]	180	72.2	69.4	----		A	No		786 - 63	0	3.29	1-Cyl. Liner & Piston	9	0	9	366	8	1	
	Plant					588	394		235				47.9			B								366	8	1	69
102	1 2 M C 4					240	161	1928	---	35.3	----	41.3		A	Yes													
	2 2 M C 4					240	161	1928	---	35.3	----	42.4		A	Yes		{--------12--------}		{0.02}	{Gaskets}	-	---	---				
	3 2 M C 2					100P	67	1922[cc]	---	29.4	----	58.3		A	Yes						-	---	---	---	12	1	
	Plant					580	389		160				44.2			D								---	12	1	---
540	1 2 M C 6					360	242	1930	250	35.3	36.5	38.6		A	Yes									366	8	1	
	2 2 M C 3					180	121	1928	120	35.3	35.1	47.0		A	Yes		{73 - 50}	0	{0.23}	{Gaskets; a few Piston Rings when cleaning}	0	0	8	366	8	1	
	Plant					540	363		270				40.9			B-E		0			0	0	24	366	8	1	72
246	1 2 M C 2					100P	67	1918	61	29.4	26.8	----		A	No						2	0.33	12				
	2 2 M C 4					200P	134	1922	95	29.4	26.8	----		A	No		{--------40--------}		{0.07}	{Gaskets and Minor Parts}	1	0.08	20	366	4	1	
	3 2 M C 4					240	161	1929	115	35.3	25.2	----		A	No						2	0.16	35	366	10	1	
	Plant					540	362		160				35.1			B								366	10	1	47
160	1 2 M C 2					120	81	1930	---	35.3	----	----		A	No		--------	------	----	----------	2	0.2	---				
	2 2 M C 3					180	121	1930	---	35.3	----	----		A	No		--------	------	----	----------	1	0.1	---	366	8	1	
	3 2 M C 4					240	161	1930	---	35.3	----	----		A	No		--------	------	----	----------	1	0.1	---	366	8	1	
	Plant					540	363		220				----			D-F								366	8	1	52
101	1 2 M C 4					240	161	1926	---	35.3	----	55.1		A	Yes													
	2 2 M C 3					150P	101	1919	---	29.4	----	41.5		A	Yes		{------1262------}		{2.34}	{Cylinder Heads Rebored; Cylinder And Gaskets}	-	---	---				
	3 2 M C 3					150P	101	1923	---	29.4	----	50.5		A	Yes						-	---	---	366	12	1	
	Plant					540	363		185				52.8			B								366	12	1	76
772	1 4 A - 4					250	168	1916	140	74.1	61.7	71.7		A	Yes		0	0	0	----------	0	0	48				
	2 4 A - 4					250	168	1916	140	74.1	61.7	75.3		A	Yes		81 - 0	0	0.32	Cracked Cyl. Head Welded	0	0	36	366	3	1	
	Plant					500	366		280				73.7			B-E								366	3	1	65
501	1 2 M C 2					120	81	1925	60	35.3	26.1	31.7		A	Yes						1	0.1	40				
	2 2 M C 2					120	81	1925	55	35.3	24.0	31.7		A	Yes		{118 - 161}	{151 - 11}	{0.92}	{---------- Crank Shaft Bearing}	0	0	40	362	5	1	
	3 2 M C 4					240	161	1929	152	35.3	33.3	47.1		A	Yes						1	0.1	20	362	10	1	
	Plant					480	323		152				37.9			B-E								362	9	1	48
424	1 2 M C 4					240	161	1929	155	35.3	34.0	42.3		A	No						{1}	{0.75}	136	366	11	1	
	2 2 M C 4					240	161	1929	155	35.3	34.0	40.9		A	No		{80 - 0}	0	{0.17}	{Piston Rings & Injection Nozzles}			136	366	11	1	
	Plant					480	322		190				41.8			B								366 360	2	1	62
695	1 2 M C 3					165	111	1931	105	35.6	33.7	----		A	Yes		0	0	0	None	0	0	---				
	2 2 M C 3					165	111	1931	105	35.6	33.7	----		A	Yes		0	0	0	None	0	0	---	366	8	1	
	3 2 M C 2					120	81	1931	72	35.3	31.4	----		A	Yes		0	0	0	None	0	0	---	366	8	1	
	Plant					450	303		170				47.6			A								366	8	1	48
335	1 4 A - 4					250	168	1924	147	74.1	64.8	34.9		A	No		0	0	0	Air Valves	0	0	---	---	10	1	
	2 4 A - 4					180	121	1920	115	73.0	69.4	44.8		A	No		15 - 0	0	0.08	Air Valves	0	0	---	---	4	1	
	Plant					430	289		147				37.1			A								---	10	1	---
247	1 2 M C 4					240	161	1928	150	35.3	32.9	----		A	No						0	0	4				
	2 2 M C 2					100P	67	1920	60	29.4	26.4	----		A	No		{60 - 0}	0	{0.15}	{Crank Bearings Rebabbitted; Rings; Main Bearings}	0	0	8	366	8	1	
	3 2 M C 1					50P	34	1915	---	29.4	----	----		A	No			0			0	0	-	366	8	1	
	Plant					390	262		225				54.2			A								366	8	1	55
1129	1 2 M C 2					k_{75}	50	----	35	47.7	33.4	29.2		A	No			0									
	2 2 M C 2					k_{75}[ee]	50	----	35	47.7	33.4	23.3		A	No		{598 - 80}	0	{1.78}	{1 - Cylinder Head ----------}	-	---	---				
	3 4 M - 2					k_{80}[ee]	54	----	---	34.0	----	34.6		A	No			0			-	---	---				
	4 2 M C 3					130	101	----	80	29.4	23.3	29.5		A	No			0		4 - Cylinder Heads	-	-----	---	366	4	1	
	Plant					380	255		80				29.6			--								366	10	1	21
105	1 2 M C 3					150P	101	1922	---	29.4	----	54.3		A	Yes													
	2 2 M C 2					120	81	1926	---	35.3	----	30.9		A	Yes		{--------607---------}		{1.64}	{Cyl. Heads & Gaskets}	-	---	---				
	3 2 M C 2					100P	67	1923	---	29.4	----	40.9		A	Yes						-	---	---	366	12	1	
	Plant					370	249		130				45.5			D								366	12	1	39
1091	1 2 M C 3					180	121	1930	100	35.3	29.2	---		A	Yes													
	2 2 M C 3					180	121	1929	100	35.3	29.2	---		A	Yes		{-129-}	0	{0.36}	{None None}	-	---	---	366	8	1	
	Plant					360	242		120				----			B								366	8	1	.37
161	1 2 M C 6					360	242	1929	250	35.3	36.5	---	----	A	Yes	B	672	0	1.84	Piston Rings, Gaskets, Injectrs	0	0	---	---	12	1	---
152	1 2 M C 6					360	242	1925	240	35.3	35.0	47.0	47.0	A	---	-	--------	-------	----	----------	-	---	---	---	--	-	0.02
688	1 2 M C 1					50P	34	1923	---	29.4	----	----		A	No													
	2 2 M C 2					120	81	1926	---	35.3	----	----		A	No		{100 - 10}	0	{0.32}	{Connecting Rod Bearing}	0	0	---				
	3 2 M C 3					180	121	1927	---	35.3	----	----		A	No			0			0	0	---	366	8	1	
	Plant					350	236		170				42.6			D-E								366	8	1	49
187	1 2 M C 2					140	94	1931	110	35.3	41.3	----		A	No													
	2 2 M C 3					210	141	1931	150	35.3	37.5	----		A	No		{23 - 7}	0	{0.09}	{Air Relief Valve on Water Manifold, Gaskets}	0	0	13	366	4	1	
	Plant					350	235		150				----			B					0	0	7	366	10	1	
774	1 4 A - 4					165	111	1917	90	72.6	58.8	76.0		A	No									25	4-14	1	---
	2 4 A - 4					180	121	1920	90	73.1	54.3	69.4		A	No		105 - 0	0	0.64	None	0	0	72	366	5	1	
	Plant					345	232		180				72.6			B-E		0		None	0	0	96	---	-	-	
857	1 2 M C 3					180	121	1929	---	35.3	----	47.6		A	No									---	-	-	42
	2 2 M C 3					150P	101	1927	---	29.4	----	32.8		A	No		{-1508-}	0	{4.57}	{1 New Cylinder 2 Cylinders Rebored}	-	---	---	366	10	1	
	Plant					330	222		100[ff]				42.8			B								366	10	1	
																								366	4	1	43

TABLE V - INFORMATION COVERING MAINTENANCE AND OPERATING LABOR (PAGE 7)

PLANT NUMBER	ENGINE DESIGNATION	ENGINE CYCLE	INJECTION SYSTEM (SEE NOTES)	SCAVENGING SYSTEM (SEE NOTES)	NUMBER OF CYLINDERS	RATED B. H. P.	EQUIVALENT K.W. - 90% GENERATING EFFICIENCY	YEAR ENGINE STARTED TO WORK	PEAK LOAD DURING REPORTED PERIOD - GROSS K.W.	B.M.E.P. AT RATED B. H. P. - LBS. PER SQ. IN.	B.M.E.P. AT PEAK LOAD - 90% GENERATING EFFICIENCY	RUNNING ENGINE CAPACITY FACTOR (SEE TEXT)	RUNNING PLANT CAPACITY FACTOR (SEE TEXT)	PISTON COOLING (SEE NOTES)	ARE AIR FILTERS USED?	TYPE COOLING SYSTEM (SEE TEXT)	COST OF REGULAR ENGINE UPKEEP - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	COST OF REPAIRS FOR ENGINE ACCIDENTS - TOTAL DOLLARS - MATERIAL - EXTRA LABOR	TOTAL ENGINE REPAIRS IN DOLLARS PER RATED B.H.P. PER YEAR	MAJOR ENGINE PARTS RENEWED DURING REPORTED PERIOD	NUMBER OF ENFORCED ENGINE SHUTDOWNS	TOTAL DURATION OF ENFORCED ENGINE SHUTDOWNS - HOURS	TOTAL ENGINE MAINTENANCE TIME NOT INCLUDING ENFORCED SHUTDOWNS - HOURS	NUMBER OF SHIFTS IN PERIOD	NUMBER OF HOURS PER SHIFT	NUMBER OF ATTENDANTS PER SHIFT	OUTPUT PER MAN-HOUR - NET K.W. HRS.
1055	1	4	M	-	4	320	215	1932ee	190	64.6	57.1	29.6	29.6	A	Yes	D	0	0	0	None	0	0	0	153	8	1	
																								153	8	1	56
																								153	8	1	
265	1	a	M	C	1	60	40	1927	30	35.3	26.5	----		A	No						0	0	---				
	2	a	M	C	2	120	81	1927	65	35.3	28.3	----		A	No		{25 - 0}	0	{0.08}	{Minor Parts Only}	0	0	---				
	3	a	M	C	2	140	94	1931	90	35.3	33.8	----		A	No			0			0	0	---	366	12	1	
	Plant					320	215		110				37.9			B								366	12	1	25
27	1	2	M	C	2	75P	50	1926	---	29.1	----	----		A	--	-	----------	-------	----	----------	-	---	---	---	--	-	
	2	2	M	C	4	240	161	1926	---	45.0	----	----		A	--	-	----------	-------	----	----------	-	---	---	---	--	-	
	Plant					315	211		75				28.8														20
382	1	4	M	-	4	150	101	1927	---	99.7	----	21.9		A	Yes		0	0	0	None	0	0	---				
	2	4	M	-	4	150	101	1927	---	99.7	----	14.3		A	Yes		0	0	0	None	0	0	---				
	Plant					300	202		---				21.2			A								---ff	10	1F	---
858	1	2	M	C	3	150P	101	1929	---	29.4	----	27.0		A	No			0		Cylinder Head	-	---	---	366	10	1	
	2	2	M	C	2	120	81	1929	---	35.3	----	26.2		A	No		{- 269 -}	0	{1.00}	Minor Parts	-	---	---	366	10	1	
	Plant					270	182		60ff				26.7			B								366	4	1	20
626	1	2	M	C	2	120	81	1930	---	35.3	----	66.0		A	Yes		0				0	0	---	366	8	1	
	2	2	M	C	2	120	81	1930	---	35.3	----	60.8		A	Yes		0	{0 - 100}	{0.42}	{Minor Parts}	0	0	---	366	8	1	
	Plant					240	162		---				63.4			D-E								366	8	1	49
516	1	2	M	C	2	120	81	1926	50	35.3	21.8	----		A	No			0			0	0	11	---	-	-	
	2	2	M	C	2	120	81	1930	50	35.3	21.8	----		A	No		{18 - 6}	0	{0.10}	{Gaskets}	0	0	3	---	-	-	
	Plant					240	162		100				22.8			E-E											---
169	1	4	M	-	6	240	161	1928	160hh	77.6	77.2	27.7	27.7	A	Yes	B	--------	-----	----	Injection Nozzles Reconditioned At Factory, Piston Rings	8.5	64	215	8.5	1F	---
984	1	4	A	-	6	225	151	1928	200	77.6	102.8	47.1	47.1	A	Yes	D	0	0	0	----------	0	0	0	42	6.5	1	100
318	1	2	M	C	1	25P	17	1918	10	29.8	17.5	-----		A	No			0		None	-	---	---	---	---	-	
	2	2	M	C	1	37.5P	25	1924	18	29.1	21.0	-----		A	No		{17 - 14}	0	{0.15}	None	-	---	---	---	---	-	
	3	2	M	C	1	50P	34	1920	35	29.4	30.3	-----		A	No			0		None	-	---	---	---	---	-	
	4	2	M	C	2	100-	67	1922jj	55	37.2	30.6	-----		A	No			0		None	-	---	---	---	---	-	
	Plant					212.5	143		55				----			A											---
733	1	2	M	C	2	100	67	1922	63	37.2	35.0	67.4		A	No			0			0	0	0	---	---	1F	
	2	2	M	C	2	75p	50	1914	54	29.1	31.4	57.2		A	No		{1 - 0}	0	{0.01}	----------	0	0	0	---	---	-	
	Plant					175	117		115				62.1			A											---
646	1	2	M	C	2	120	81	1927	50	35.3	21.8	13.4	13.4	A	No	B-D-E	0	0	0	----------	0	0	---	366	12	1F	
																								366	12	1F	---

Notes:

Injection System
A - Air
M - Mechanical

Scavenging System (For 2-Stroke Cycle Only)
C - Crank Case Compression
P - Attached Pump or Blower
B - Independently Driven Blower

Piston Cooling
A - Air
O - Oil
W - Water

Lettered Notes

a- Installed Fifth Day of Fifth Month
b- Sixty Minute Peak
c- Installed Twenty-first Day of Ninth Month
d- Installed Twenty-fifth Day of Twelfth Month
e- Air Filtered for Air Compressors
f- Changed to B near End of Period
g- Includes Five Cylinder Heads Broken by Sabotage in 1929
h- Twenty-four Hour Peak
i- A, in Summer; C in winter
j- Replacement Dut To Experiment With Steel Heads; Manufacturer Made No Charge For Replacement
k- Horizontal
l- High Maintenance Time Due to Experimenting with Main Bearings And Fuel Pump Construction and Also Due To FulFillment Of Acceptange Conditions
m- Rating Revised From Previous Report By Operator
n- Excessive Maintenance Time Due to Extensive Surveys Made Possible Because Units Were Not Needed
o- Date of Original Installatiog; Started In This Plant On First Day Of Fourth Month
p- Semi Diesel
r- Part Time
t- Includes Total Maintenance Labor
u- Not Including Several Shutdowns Due To Lightning Damage To Generators
v- Installed Tenth Day Of Sixth Month
w- Started Before Period Began
x- Started Twenty-ninth Day of Second Month
y- Thirty Minute Peak
z- Date Of Original Installation; Installed In This Plant In 1924
aa- Operator Started Unit Without Water Circulating Through Oil Cooler
bb- Cylinders Scored Due To Cooling Water Failure. Four Weeks Required To Ship Parts
cc- Date Of Original Installation; Installed Here in 1930
dd- Date Of Original Installation; Installed Here In 1928
ee- Second Unit Discarded Thirtieth Day Of Eleventh Month; Third Unit Started On That Date
ff- Net K.W.
gg- Started First Day Of Fifth Month Period
hh- Estimated
ii- Supercharged to Produce Sea Level Conditions
jj- Date Of Original Installation; Date Installed Here Unknown