

FARIBAULT STATE SCHOOL and HOSPITAL
FAHIBAULT, MINNESOTA
ENGINEERING DEPARTMENT

MAY 1960 ACTIVITY

In addition to 333 regular trouble calls and 37 repair orders by the machine shop 12 other projects were completed. Eighty-eight hours by the machine shop were spent on repair of farm equipment and 9 hours were spent on vehicles.

The hot water circulating pump at the dairy was replaced with one salvaged from Haven and the old pump at the dairy was discarded. A urinal was installed in the basement wash room at Mohawk. Repairs to the flour sifter were necessary when a brush became loose in the sifter and damaged the spider which held the brush assembly.

A reach in refrigerator from government surplus was moved to Owasso and will be installed shortly. A severe gas leak developed in the circuit for the vegetable storage in the warehouse and repairs to the line were made.

A special project was installation of a pan washer in the main kitchen. Work remaining on this project is construction of a clean dish table.

Staybolt repairs in the dairy boiler was necessary with inspection made by the State Deputy Inspector. Inspection of boiler No. 2 and pressure vessels was also completed. Replacement of worn parts in the Toledo Potato Peeler in main kitchen was completed and motor repairs were necessary in one of the kitchen exhaust fans.

Two gates were made for the dairy from salvaged tubes of the No. 5 boiler. Three sets of clothes line poles were also made from these tubes.

Sixty-eight and one half vacation and compensatory days off were used and sick days totaled 32. One employee was off for entire month with a back sprain suffered when lifting a 100 lb. bag of salt which ruptured and caused employee to lose footing.

Wayne Saarela
Chief Engineer

FARIBAULT STATE SCHOOL AND HOSPITAL

Faribault, Minnesota

POWER PLANT MONTHLY BREAKDOWN REPORT--FOR Month of

May

1960

1. Monthly Average of Daily Outside Temperature.....	8.3 Deg. D
2. Fuel Consumption (N. S. P. Co. reading).....	28237 M.C.F.
3. Fuel Cost.....	9035.84
4. Generator Steam.....	2537200 lbs.
5. Process Steam.....	16480428 lbs.
6. Total Steam Generated.....	19007628 lbs.
7. Fuel Cost per 1000 lbs. Steam Generated.....	\$.475
8. Total Cost per 1000 lbs. Steam Generated.....	\$.612
9. K. W. Generated.....	312000 K.W.
10. K. W. Furnished to Blind School 22480 K.W. @ 1¢ = \$224.80.....	22480 K.W.
11. Total K. W. Consumption.....	289520 K.W.
12. Evaporation per cu. Ft. Gas Actual... 693.....	Lbs. Equiv. Evap... .731 lbs.
13. Total Power Plant Labor Cost.....	5404.00
14. Total Power Plant Materials Cost.....	6259.42
15. Gross Power Plant Cost per K. W. Generated.....	\$.014
16. Labor Cost for Building Maintenance.....	5920.00
17. Materials Cost for Building Maintenance.....	1275.15
18. Gross Cost for Light, Heat, and Maintenance. Less Blind School Credit.....	21974.22
19. Number of employees in Power Plant.....	26
20. Patient Population 3074 Employee Population 671 Total.....	3745
21. Total Per Capita Cost for Light, Heat, Power, & Maintenance Services \$.....	5.86
22. Sq. Ft. of Radiation of All Buildings.....	203928 Sq. Ft.
23. Cu. Ft. of All Building Volume Receiving Service.....	14274931 Cu. Ft.
24. Heating Cost per 1000 Cu. Ft. of Building Volume Served.....	\$.365
25. Electricity Purchased.....	113.29
26. Gallons of water softened and heated.....	4022400
27. Total gallons of water pumped.....	13099000
28. Sewage Disposal Water Gallons.....	3370700
29. Steam Furnished Braille Lbs. 962500 @ 55¢ per M.....	529.10
30. Firm Gas.....	341.82

Note: Braille not included in lines 22 & 23
No credit for exhaust steam

Wayne Saarela

FARIBAULT STATE SCHOOL AND HOSPITAL
Faribault, Minnesota

MONTHLY ENGINE ROOM REPORT

For May 1960

	Daily	12 to 8 A. M.	8 to 4 P. M.	4 P. M. to 12
Average Gas Burned, M.C.F.	910870			
Average Temperature	8.3	Deg. Days		
Average Feed Water Used	632112			
Average Live Steam on, Hrs.	24			

Steam and Condensation	Feed Water	Steam - Braille	Make-up Water	Well Water
Meter Reading, end of month, #	8469800	292000	35835200	
Meter Reading, beg. of month, #	6117400	670500	85150400	13099000 gals.
Net Reading, lbs. X1000	2352400	962500	634800	109114670 lbs.

Water	Softener #1	Softener #2	Softener #3	Softener #4
Meter Reading, end of month		14337100	61143500	95566200
Meter Reading, beg. of month		13139900	59533500	94142300
Net Reading		1697200	1610000	1423900
Net Reading X8.33		14137676	13411300	11861087

TOTALS

Gas Burned, M.C.F. 28237 Feed water, lbs. 19595492 Hot water, lbs. 36505392
Make-up water, lbs. 5704384 Evapo., actual, lbs. 19007628 Blow down, lbs. 587864

N.S.P x 1600

	Turbine 625 K.W.	1000 K.W.	400 K.W., A.C.	Braille C.W.
Meter Reading, end of month		6509		2660
Meter Reading, beg. of month		6314		174
Net Reading	X100	X100 312000	X100	5694 C.F.

Total K.W. output, all bldgs. 312000 K.W.'s Total live steam 19007628 lbs.
Total Condensation ret'd. 13303244 lbs. Steam - Braille 962500 lbs.
Cylinder oil used 26 gals. Engine oil used 7 1/4 gals.
Well water pumped 13099000 gals. Soft. backwash 343700 gals.
Elec. Cur., Sch. - Blind 22480 K.W.H. Fuel Oil burned None gals.

Engineers	Hrs. on duty	Firemen	Hrs. on duty	Helpers	Hrs. on duty
Wobbrock	184	Youngbauer	176		
Voelker	167	Reisdorfer	167		
Pawek	160	Wallace	128		
Hedges	96	Jensvold	120		
Kruger	72	Davis	112		
Helling	32	Bodsberg	32		
Johnson	24	Miller	8		
Miller	8				

Remarks: Sewage Disposal Meter

Reading at end of month 95755500 Gal.

Reading at beg. of month 86334300 Gal.

Net Reading 8870700 Gal.

Wayne Saarela
Ass't Chief Engineer Chief Engineer

GAS AND OIL CONSUMPTION RECORD

Faribault State School
Institution and Hospital

Month of May 1960

THIS YEAR				LAST YEAR			
Date	Gas Used Cu. Ft.	Oil Used Gals.	Average Outside Temp. °F. XXXXXX Deg. Days	Date	Gas Used Cu. Ft.	Oil Used Gals.	Average Outside Temp. °F. XXXXXX Deg. Days
1	872000		15	1	860000		0
2	956000		10	2	806000		0
3	939000		11	3	752000		0
4	930000		5	4	825000		0
5	959000		6	5	810000		0
6	1070000		15	6	905000		17
7	1039000		22	7	898000		18
8	903000		23	8	844000		15
9	1066000		22	9	864000		12
10	1007000		19	10	780000		6
11	1001000		15	11	875000		12
12	935000		15	12	843000		7
13	864000		0	13	909000		19
14	829000		4	14	949000		25
15	776000		0	15	901000		18
16	961000		11	16	800000		10
17	884000		6	17	720000		4
18	924000		3	18	810000		4
19	886000		2	19	783000		2
20	891000		2	20	839000		4
21	862000		3	21	848000		5
22	797000		3	22	871000		9
23	830000		2	23	846000		12
24	874000		3	24	761000		6
25	897000		5	25	845000		2
26	918000		5	26	839000		2
27	948000		9	27	851000		7
28	830000		4	28	843000		2
29	804000		3	29	827000		3
30	804000		0	30	774000		2
31	831000		3	31	753000		6
Total	28237000		251	Total	25838000		229
Daily Average	910370		8.3	Daily Average	833483		7.3

Deg. Days

Deg. Days

Signed

Wayne Saville
Chief Power Engineer

Building	Dishwashing Machines	Electrical	Plumbing & Heating	Refrigeration	Radio & TV	Total
Administration		7	1			8
Birch		8	9			17
Cedar		6	12			18
Chippewa	2	16	11	4	1	34
Dairy		1	3	1		5
Daisy			3		1	4
Dakota		3	5	1		9
Elm		2	7	1		10
Fern		1	3			4
Glen		1	1			2
Grandview			4			4
Greenhouse			1			1
Grounds		2				2
Hickory		3	3			6
Hillcrest		3	1			4
Holly	1	3	4			8
Hospital		4	9	3		16
Huron		1	1			2
Iris		1	1	1		3
Ivy	4	11	12			27
Kitchen		5	4			9
Laundry		2	1			3
Laurel		2	1			3
Lind			1			1
Maple	1	8	5		1	15
Mohawk		3	5			8
Oaks		9	4		1	14
Osage		2	7			9
Paint Shop		1				1
Pawnee		1	5			6
Pine		13	3		1	17
Ponny		2	3			5
Rogers Mem.		3	7	1		11
Rose		3	3			6
Seneca		1	2			3
Sioux		1				1
Springdale			3			3
Spruce	1	3	8			12
Warehouse				1		1
West Cottage		1	1			2
Willow		7	2			9
Womans Bldg.		2	1			3
Residence		2	5			7
Totals	9	144	162	13	5	333