cc: ( ) File
( ) DEC

LOCATION FACILITY EMISSION POINT UNIT
C 2 6 1 4 0 0 0 8 9 4 0 0 1 0 9 A
B

MONROE COUNTY DEPARTMENT OF HEALTH
BUREAU OF AIR RESOURCES
FIELD REPORT STATIONARY COMBUSTION INSTALLATION

INSPECTION OF:
☐ New ☐ Modified ☒ Existing Installation

SOURCE OWNER OR OPERATOR
Taylor Instrument Company

LOCATION OF SOURCE - Street Address
95 Ames Street

Village, City or Town
Rochester 14601

DATE(S) OF INSPECTION
1/7/85

FIRM REPRESENTATIVE(S) PRESENT
George Pasnak

I. OPERATION

A. ☐ COAL ☒ OIL 6 ☒ GAS

B. PLUME OPACITY: (0) 20 40 60 80 100

C. SMOKE: WHITE BLACK/BROWN YELLOW/BROWN GREY RED/BROWN BLUE/WHITE

D. Contaminants in the vicinity attributable to this installation? ☐ Yes ☒ No

Conplaints directed against source? ☐ Yes ☒ No

II. INSTALLATION

	SAT.	UNSAT.
FUGITIVE DUST	☒	☐
FURNACE WALLS	☒	☐
FLAME CHARACTERISTICS	☒	☐
GRATE SYSTEM	☐	☐
FANS & DUCTWORK	☒	☐
ASH DISPOSAL	☐	☐

	SAT.	UNSAT.
CONTROL EQUIPMENT	☐	☐
MECHANICAL	☐	
SCRUBBER	☐	none
ESP	☐	
LIQUOR FLOW GPM		
PRE PRESSURE		
POST PRESSURE IN. H2O		
PRESSURE DROP		

INSTRUMENTATION

AIR FLOW / STEAM (FUEL)	☒	☐
PRESSURE / DRAFT	☒	☐
CONTROL EQ INDICATORS	☐	☐
STACK VIEWER	☐	☐
OPACITY MONITOR	☐	☐
SMOKE METER	☐	☐
FLUE GAS ANALYZER	☐	☐

RECORDS O & M

STEAM GENERATION	☐	☐
FUEL CONSUMPTION	☐	☐
FUEL CHARACTERISTICS	☐	☐
GRATE / BURNER EQ.	☐	☐
INSTRUMENTATION / CALIB.	☐	☐
FANS / DUCTS / CONTROL EQ.	☐	☐
SOOT BLOWING	☐	☐

III. RECOMMENDATIONS

I recommend that a Certificate to Operate for this installation be ☐ Issued ☐ Denied

COMMENTS: (over)

1/7/85	J. Kennedy	AIR - 115 (Acceptance of field report)	
Date of Report	Signature of Inspector	1/15/85	Michael A. Koral
		DATE	Signature of Bureau Representative

HD-5843-01-10008-80

ATTACHMENT A

Explanations and Calculations:

Item #	Comment
161, 172	One Dual Register Conversion Burner capable of burning either fuel oil or natural gas in each Boiler.
164, 175	$\frac{1}{\text{hours/yr}} \times \frac{\text{lb/yr steam used (Avg.)} \times (\text{BTU steam} - \text{BTU } H_2O)}{\text{Fuel BTU} \times \text{efficiency}} = \frac{\text{fuel used}}{\text{hr}}$
166, 177	$\frac{\text{Avg fuel used}}{\text{hr}} \times \frac{\text{hrs}}{\text{yr}} = \frac{\text{fuel used}}{\text{yr}}$
158	See Attachment B
165, 176	$\frac{\text{lb/hr Max steam production capacity} \times (\text{BTU steam} - \text{BTU } H_2O)}{\text{Fuel BTU} \times \text{efficiency}} = \frac{\text{max. fuel used}}{\text{hr}}$ (Based on Manufacturer's specifications)
85, 86, 96, 97, 107, 108, 200, 201, 202, 205, 209, 210, 211, 214, 218, 219, 220	These calculations are based on worst case conditions of burning 100% oil, 24 hrs. per day to meet the average annual steam load. The calculations were also done as if one boiler, under these conditions, was used to meet the annual load. Therefore, these numbers (which are the same on Forms 76-19-13 and 76-19-2) represent the contaminent concentration emitted from the single stack rather than the emissions from a single unit. It is anticipated that normal operation will see some combination of both boilers burn gas for some percentage of time and oil for the remainder. This annual ratio of gas to oil will be dictated by economic conditions. For total particulates and sulfur dioxide, annual emissions will be reduced proportionally with percentage of natural gas used since this fuel is virtually without those two pollutants. For oxides of nitrogen, natural gas emissions are typically 59% lower.

ONE UNIT

Particulates (lines 200, 201, 80, 85, 86)

$$\frac{0.059 \text{ lbs Part}}{\text{mBTU}} \times \frac{1.5(10^{-1})\text{mBTU}}{\text{gal}} \times \frac{141\text{gal}}{\text{hr}} = \frac{1.25 \text{ lb}}{\text{hr}} \times \frac{24 \text{ hr}}{\text{day}} \times \frac{360 \text{ day}}{\text{yr}} =$$

10800 lbs/yr

Sulfur Dioxide (lines 91, 96, 97, 205, 209, 210)

$$\frac{1.22(10^{6})\text{gal}}{\text{year}} \times \frac{8.2 \text{ lb}}{\text{gal. oil}} \times \frac{0.02 \text{ lb.S}}{\text{lb. oil}} = \frac{1.998(10^{5})\text{lb.S}}{\text{yr}} \times \frac{1 \text{ yr}}{1.8(10^{5})\text{mBTU}} =$$

$$\frac{1.09 \text{ lb.S}}{\text{mBTU}} \times 2$$

$$\frac{141 \text{ gal}}{\text{hr}} \times \frac{8.2 \text{ lb}}{\text{gal}} \times \frac{0.02 \text{ lb.S}}{\text{lb. oil}} = \frac{23.12 \text{ lbs.S}}{\text{hr}}$$

$$= 2.18 \frac{\text{lb } SO_x}{\text{mBTU}}$$

ATTACHMENT A

Facility Description

Two Conley Boilers with Foster Wheeler Superheaters are stationary boilers constructed in 1936. They were originally designed and operated with pulverized coal and supplied only our Ames Street facility with heat, process steam, and electricity. They were voluntarily shut down in 1965 because it was economically more attractive to purchase steam from Rochester Gas and Electric. Since the purchase of steam is not economically attractive, a decision was made to re-activate our boilers. The project entails the replacement of two coal-fired burners (one in each boiler) with two dual register conversion burners (one in each boiler). These burners are capable of burning either fuel oil or natural gas and will alternate between these fuels, depending on the market price for each. It is anticipated that both boilers will operate on the same fuel except during the brief times when conversion from one type fuel to the other occurs. These boilers will supply all heat and process steam requirements as well as 700 KW (maximum) electrical power generation. The re-activated boilers will serve our entire Ames Street, Hague Street, and West Avenue facilities.

Parameters used in calculations:

1.	Annual steam load requirements: This is based on most recent five years usage.		135,000,000 lb.
2.	Maximum design steam generation capability - each boiler:		45,000 lb./hr.
3.	Maximum design fuel usage - each boiler:	Gas	58,000 CFH
	- each boiler:	Oil	393 GPH
4.	Average anticipated fuel usage (Based on Item 1 above)	Gas	20,690 CFH
		Oil	141 GPH
5.	Maximum design BTU Input - each boiler:	Gas	59.74 mBTU
		Oil	58.95 mBTU
6.	Fuel BTU content	Gas	1030 BTU/Cu.Ft.
		Oil	150,000 BTU/Gal.
7.	Fuel efficiency	Gas	0.8
		Oil	0.82

ATTACHMENT A (cont'd.)

Nitrogen Oxides (lines 102, 107, 108, 214, 218, 219)

$$\frac{0.27 \text{ lb } NO_x}{\text{mBTU}} \times \frac{21.15 \text{ mBTU}}{\text{hr}} = \frac{5.71 \text{ lb } NO_x}{\text{hr}}$$

$$\frac{5.71 \text{ lb } NO_x}{\text{hr}} \times \frac{24 \text{ hr}}{\text{day}} \times \frac{360 \text{ day}}{\text{yr}} = 49338.7 \frac{\text{lb } NO_x}{\text{yr}}$$

80, 196

These calculations are based on 38000 lb/hr being the maximum anticipated steam load. This figure was arrived at following review of most recent three years data. Highest monthly maximums were averaged and a growth percentage was added. Also, the worst case condition of using only oil 24 hrs/day to meet this load was used to calculate these values:

332.27 gal/hr x 150,000 BTU/gal. = 49,840,500 BTU/hr
49.8405 mBTU/hr x .059 lb/mBTU = 2.94 lb/hr Part.

ROBSON AND WOESE INC.
2401 Burnet Ave.-Syracuse, NY 13206
P. O. Box 6010, Teall Station - Syracuse, NY 13217
(315) 437-3374

JOB TAYLOR INSTRUMENT
SHEET NO. 1 OF 2
CALCULATED BY JIT DATE 7/23/82
CHECKED BY DATE
SCALE

Attachment B

CALCULATIONS FOR D.E.C PERMIT /100 mols @ 60°F ONE Boiler

GAS FUEL

$$\text{FUEL BURNED} = \frac{\text{LBS STEAM} \times (\text{BTU STM} - \text{BTU } H_2O)}{\text{Fuel Btu.} \times \text{eff.}}$$

$$\text{MAX/HR} = \frac{\text{max } 45{,}000 \times (1273.5 - 198)}{1030 \times .8}$$

$$= 58{,}000 \text{ CFH} = 59.74 \text{ BTU INPUT./Hr.}$$ (max anticipated load)

$$\text{AVE/HR} = \frac{\text{Annual } \bar{x} \text{ Load } 135{,}000{,}000 \times (1273.5 - 198)}{8760 \text{ hrs/yr} \times 1030 \times .8}$$

$$= 20{,}690 \text{ C.F.H.} = 21.31 \text{ Ave BTU Input/Hr.}$$

FUEL ANALYSIS /100 Mols Fuel

C = 102 mols × 1 = 102 mols O_2 → 102 Mols CO_2
H = 204 Mols × ½ = 102 mols O_2 → 204 Mols H_2O
204 mols O_2
10% excess Air 21 mols O_2
TOTAL O_2 Supplied 225 mols.
N_2 = 225 × 3.76 = 846 mols

TOTAL Mols F.G = 102 + 204 + 21 + 846 = 1173 Mols.

$$\text{SCFM-F.G} = \frac{58{,}000}{100} \times 1173 = 680{,}340 \text{ Ft}^3/\text{Hr} = 11{,}339 \text{ ft}^3/\text{min}$$

$$\text{ACFM-F.G} = 11{,}339 \times \frac{1010}{520} = 22{,}023 \text{ ft}^3/\text{min}$$

$$\text{Vel} = \frac{22{,}023}{\frac{\pi 6.83^3}{4} \times 60} = 10'$$

$Q = AV$

$V = \frac{Q}{A}$

ROBSON AND WOESE INC.
2401 Burnet Ave.-Syracuse, NY 13206
P. O. Box 6010, Teall Station - Syracuse, NY 13217
(315) 437-3374

JOB TAYLOR INSTRUMENT
SHEET NO. 2 OF 2
CALCULATED BY J.I.T. DATE 7/23/82
CHECKED BY DATE
SCALE

CALCULATIONS FOR D.E.C.

OIL FUEL - Standby fuel

$$\text{FUEL BURNED} = \frac{\text{LBS STEAM (BTU STM} - \text{BTU H}_2\text{O})}{\text{FUEL BTU} \times \text{eff.}}$$

$$\text{MAX/HR} = \frac{45{,}000 \times (1273.5 - 198)}{150{,}000 \times .82}$$

$$= (393 \text{ GPH}) \qquad 58.95 \text{ mBTU/hr}$$

$$\text{AVE/HR} = \frac{135{,}000{,}000 \times (1273.5 - 198)}{8760 \times 150{,}000 \times 82}$$

$$= 141 \text{ G.P.H} \qquad 21.15 \text{ mBTu/hr}$$

(Typical) Fuel ANALYSIS / 100 # fuel

C = 7.24 mols	× 1 = 7.24 mols O_2	→ 7.24 MoCs CO_2
H_2 = 5.1 "	× ½ = 2.55 " "	→ 5.1 " H_2O
S = .045 "	× 1 = .045 " "	→ .045 " SO_2
	9.835 mols O_2	
15% excess Air =	1.475 mols O_2	
Total O_2 Supplied =	11.31 mols	
N_2 = 11.31 × 3.76	42.53 MoCs	

Total Mols F.G. = 7.24 + 5.1 + .045 + 1.475 + 42.53 = 56.39 mols

S.C.F.M F.G. = $\frac{393 \text{ GPH} \times 7.763 \text{ \#Gas}}{100} \times \frac{56.39 \text{ mols/100\#}}{\times\ 394 \text{ ft}^3/\text{mol}} = 677{,}892 \text{ CFH} = 11{,}298 \text{ CFM}$

ACFM F.G. = $11{,}298 \times \frac{1010}{520} = 21{,}944 \text{ ft}^3/\text{min}$

by: FRANK SHATTUCK

TAYLOR INSTRUMENT PLAN REVIEW (2ND SUBMISSION)

FORM 76-19-13

1) MAKE OUT A SEPARATE FORM FOR EACH UNIT
2) BOX 166 - CAN'T USE SCIENTIFIC NOTATION
3) BOX 196 EXPRESS IN #/MMBTU
4) Is the annual emission (or all info in section K) represent one unit or two
looks like it represents two
5) $121,8240 \frac{gal}{yr} \times 8.2 \frac{lb}{gal} \times .02 \frac{lbS}{lb\,fuel} \times 2 \frac{SO_2}{S}$

$= 399,582 \frac{lb}{yr}$ or 199 Ton/year

6) Max under PSD

$X \cdot (8.2)(.02)(2)\left(\frac{1}{2000}\right) = 250$

$X = \frac{(250)(2000)}{(8.2)(.02)(2)}$

$X = 1,524,390$ gal/yr.

7) Heat input is double the original application
8) emissions are double what they should be on the unit forms, so are the fuel quantities & days per yr of operation

PLAN REVIEW BY: F. SHATTUCK

TAYLOR INSTRUMENT
95 AMES ST
ROCHESTER

APPLICATION : P.C. - SOURCE 109 (GAS/OIL BOILERS)
2 units rated at 29.87 MM BTU/HR

APPLICIBLE RULES :
227
225
PSD UNLESS CONDITIONED
BECAUSE THEY REPORTED
322 TONS/YR SO_2
SEQR - UNLISTED
UPA - MAJOR

PROBLEM WITH THE APPLICATION:

1) SECTION F NOT COMPLETE - Summarize contaminates
2) UNIT SECTION H. IS NOT COMPLETED CORRECTLY - EACH FUEL MUST BE SEPARATED AND LISTED IN SEPARATE BOX
3) CALCULATIONS IN SECTION J. MAY BE IN ERROR

$$Y \times 18,266 \frac{BTU}{\#} \times \frac{1}{1,000,000} \times 100 = 2\% \text{ S (or)}$$

$Y = 1.094$ # S / MMBTU
$2Y = 2.2$ # SO_2 / MMBTU

THEY REPORT 2.5 # SO_2 / MMBTU

4) SO_2 emmissions per year (322 Tons/Yr) exceed MAJOR THESHOLD FOR PSD. (IE 2.5 # SO_2 MM x 29 MM x 2 units x 180 x 24 x $\frac{1}{2000}$)
THE DIMINIMIS VALUE FOR SO_2 640 T/YR IS ALSO exceeded.

5) ANNUAL EMISSIONS THEY HAVE CALCULATED ARE BASED ON RECK RATES TIMES HOURS OF OPERATION. THIS IS NOT A TRUE REPRESENTATION OF WHATS EMITTED

CALCULATIONS OF SO_2 BASED ON OIL USAGE (MY CALC NOT FIRMS)

$$305{,}000 \text{ GAL/Yr OIL} \times 8.2 \frac{16}{\text{gal}} \times 2.0\% \times \frac{1}{100} \times 2 \text{ units} \times 2\ SO_2 \times \frac{1}{2000}$$

$$= 100 \text{ TONS Y/R}$$

6) NO PERMIT FEE (OF # 50.00)

7) MAY EXCEED PART 225 WITH 2.5 # SO_2 / MMBTU

7) PLOT PLAN
8) PLAN & ELEVATION SHOWING MODIFICATIONS

CONVERSATION WITH KEVIN HILTON OF THE FIRM ON 10/22/82 @ 10:00AM

HE AGREED TO:

1) MAKE NECESSARY CORRECTIONS WE DISCUSSED IN THE APPLICATION

2) RECALCUTED EMISSIONS

3) WILL AGREE TO A PERMIT CONDITION LIMITING SO_x EMMISSION SO THEY ARE BELOW THE PSD THESHOLD. MAKE IT ENFOLECABLE - LIMIT FUEL

4) MUTUALLY AGREED TO FOLEGO THE 15 DAY TIME PERIOD IN U.PA.

NOTES:

1) MAJOR THESHOLD - 250 TON/YR
2) DIMINIMUS PART 25 - 7.6
   SO_x 40 - 322 (REDUCE BY PERMIT COND.)
   NO_x 100 - 34
3) AIR 100 ft^3 per BTU
   59,000,000 BTU = 59,0000 ft^3 air/hr
   = 9833 ft^3/min +10% excess
   OK

LOC FAC EP

Appendix III SIC no.____

PSD Applicability Determination

Facility Name TAYLOR INSTRUMENT

Address_____

TY

Table A: Facility Emissions Summary (T/Yr)

	TSP	SO_2	CO	NO_x	VOC	Pb
Current Emissions						
Net change this modification	____	____	____	____	____	____
New Emissions Total						

1. Any attainment pollutants currently > 250 T/Y? yes___ no___

2. Is facility listed as one of 28 major source categories? yes___ no___

3. If yes to #2, are any attainment pollutants > 100 T/Y? yes___ no___

If yes to #1 or #3, facility is MAJOR for PSD purposes.

Description of proposed new source(s)

Table B: Emissions from Proposed Source

A	B	C	D	E
Contaminant	Deminimis Level (T/Y)	Annual Emissions at 8760 Hr/Yr (T/Y)	Modified Annual Emissions after netting and SC (T/Y)	D > B Y/N

4. Is netting available? yes___ no___ 5. Are special conditions available? yes___ no___

If yes, describe on back of page and indicate modified annual emissions on Column D.

If the facility is MAJOR for PSD purposes, the new source IS SUBJECT to PSD for the pollutants indicated on Column E.

6. Is source subject to PSD? yes___ no___

APPROVED BY DATE

PREPARED BY DATE

EXISTING
SUMMARY OF EMISSIONS FROM THE FACILITY

PARTICULATES

(52)	.2 lb/hr	x 8 hr/day	x 250 days/yr	x 1 ton / 2000 lb	=	.2
(53)	.2	x 8	x 250	x 1/2000	=	.2
(54)	.2	x 8	x 250	x 1/2000	=	.2
(68)	.1	x 8	x 250	x 1/2000	=	.1
(31)	.001	x .3	x 250	x 1/2000	=	—
(58)	.04	x 16	x 250	x 1/2000	=	.08
(81)				25.0 x 1/2000	=	.012
(83)	.1	x 2	x 250	x 1/2000	=	.025
(84)	.06	x 8	x 250	x 1/2000	=	.06
(93)				3 x 1/2000	=	.0015
(94)				3 x 1/2000	=	.005
(95)	.01	x 8	x 250	x 1/2000	=	.01
(98)				2 x 1/2000	=	.001
(100)	.072	x 14	x 250	x 1/2000	=	.125
(2)	.35	x 1	x 250	x 1/2000	=	.04
(11)	.15	x 1/2	x 250	x 1/2000	=	.001
(20)				.2 x 1/2000	=	—
(21)				1 x 1/2000	=	—
(22)	.001	x 6	x 250	x 1/2000	=	—
(23)	.1	x 1	x 52	x 1/2000	=	.003
(25)	.25	x 4	x 200	x 1/2000	=	.1
(31)	.2	x 8	x 250	x 1/2000	=	.2
(32)	.2	x 8	x 250	x 1/2000	=	.2
(33)	.2	x 8	x 250	x 1/2000	=	.2
(39)	.172	x 16	x 250	x 1/2000	=	.34
(41)	.1	x 10	x 250	x 1/2000	=	.125
(46)	.6	x 2	x 250	x 1/2000	=	.15
				Total		2.3695 Ton/yr

SUMMARY OF EXISTING EMISSIONS FROM THE FACILITY

SO2

No emmission from existing sources

from application

$322{,}618\ \#/yr \times 2\ units \times \frac{1}{2000} = 322.6\ Tons/yr$

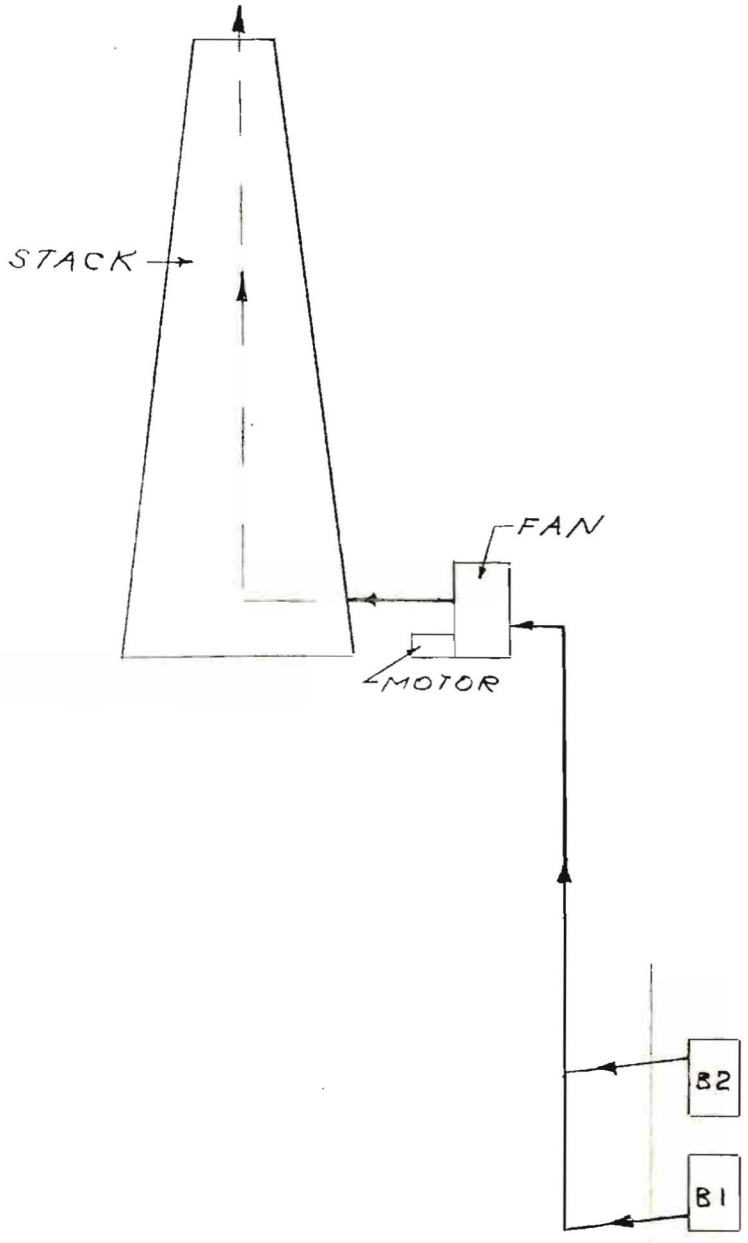
* exceeds 250 Ton/yr threshold

NOx none

E. P. NO.	0	0	1	0	9
DWN. 10-14-82 L.M					

DEPT. 260 B/14

MOTOR: SIEMENS-ALLIS
MODEL 131 - 50 H.P.
BLOWER: PRATT-DANIEL
MODEL 900 TYPE IV-3



Unit A - Operating on gas
Last internal - 12/15/83
Steam flow - 30,000 lbs
O_2 - not operating
Unit B - not operating at time of inspection
Last internal - 7/26/83
new brick work

Oil -
burned gas all the time
no soot blow

OP | LOCATION | FACILITY | EMISSION POINT

A | 2 6 1 4 0 0 | 0 8 9 4 | 0 0 1 0 9 | C

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-4 BEFORE ANSWERING ANY QUESTION

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

file

COPIES
WHITE - ORIGINAL
BLUE - DIVISION OF AIR
WHITE - REGIONAL OFFICE
WHITE - FIELD REP.
YELLOW - APPLICANT

STATIONARY COMBUSTION INSTALLATION

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

SECTION A

1. NAME OF OWNER / FIRM	9. NAME OF AUTHORIZED AGENT	10. TELEPHONE	19. FACILITY NAME (IF DIFFERENT FROM OWNER / FIRM)
TAYLOR INSTRUMENT COMPANY	Robson & Woese, Inc.	315/ 437-3374	Same
2. NUMBER AND STREET ADDRESS	**11. NUMBER AND STREET ADDRESS**		**20. FACILITY LOCATION (NUMBER AND STREET ADDRESS)**
95 Ames Street	2401 Burnet Avenue		
3. CITY - TOWN - VILLAGE / 4. STATE / 5. ZIP	**12. CITY - TOWN - VILLAGE / 13. STATE / 14. ZIP**		**21. CITY - TOWN - VILLAGE / 22. ZIP**
Rochester / New York / 14611	Syracuse, / NewYork / 13217		
6. OWNER CLASSIFICATION A. ☐ COMMERCIAL B. ☒ INDUSTRIAL C. ☐ UTILITY D. ☐ FEDERAL E. ☐ STATE F. ☐ MUNICIPAL G. ☐ EDUC. INST. H. ☐ HOSPITAL I. ☐ RESIDENTIAL J. ☐ OTHER	**15. NAME OF P.E. OR ARCHITECT PREPARING PLANS / 16. N.Y.S. P.E. OR ARCHITECT LICENSE NO. / 17. TELEPHONE**		**23. BUILDING NAME OR NUMBER / 24. FLOOR NAME OR NUMBER**
	John Taylor Robson & Woese - 26206 / 315/ 437-3374		14 / Floor 1
7. NAME & TITLE OF OWNERS REPRESENTATIVE / 8. TELEPHONE	**18. SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT**		**25. START UP DATE MO / YR / 26. DRAWING NUMBERS OF PLANS SUBMITTED**
Frank Cervelloni, Manager of Facilities / 716/ 235-5000	John S. Taylor		11 / 82 / 00109
			27. PERMIT TO CONSTRUCT A. ☐ NEW SOURCE B. ☒ MODIFICATION / **28. CERTIFICATE TO OPERATE** A. ☐ NEW SOURCE C. ☐ EXISTING B. ☒ MODIFICATION

SEC. B

29. EMISSION POINT ID.	30. GROUND ELEVATION (FT.)	31. HEIGHT ABOVE STRUCTURES (FT.)	32. STACK HEIGHT (FT.)	33. INSIDE DIMENSION(S) (IN.)	34. EXIT TEMPERATURE (°F)	35. EXIT VELOCITY (FT./SEC.)	36. EXIT FLOW (ACFM)	37. HEAT INPUT (MILLION BTU/HR)	38. CONTINUOUS MONITOR(S)
0 0 1 0 9	530	56	100	77	550	11.4	22023	119.48	A. ☐ OPACITY B. ☐ SULFUR DIOXIDE C. ☐ NITROGEN OXIDES D. ☒ OXYGEN E. ☐ CARBON DIOXIDE F. ☒ OTHER: CO, Temperature

SECTION C

39. UNIT TYPE	40. UNIT MANUFACTURER'S NAME AND MODEL NUMBER	41. UNIT HEAT INPUT	42. AIR INTAKE	43. SOURCE CODE

44. BURNER TYPE	45. NO. OF BURNERS	46. BURNER MANUFACTURER'S NAME AND MODEL NUMBER	47. FUEL TYPE	48. AVG. QUANTITY OF FUEL / HR	49. MAX. QUANTITY OF FUEL / HR	50. QUANTITY OF FUEL / YR

51. HRS. / DAY	52. DAYS / YEAR	53. % OPERATION BY SEASON (Winter / Spring / Summer / Fall)	54. NAME OF SUPPLIER (S)

55. BURNER TYPE	56. NO. OF BURNERS	57. BURNER MANUFACTURER'S NAME AND MODEL NUMBER	58. FUEL TYPE	59. AVG. QUANTITY OF FUEL / HR	60. MAX. QUANTITY OF FUEL / HR	61. QUANTITY OF FUEL / YR

62. HRS. / DAY	63. DAYS / YEAR	64. % OPERATION BY SEASON (Winter / Spring / Summer / Fall)	65. NAME OF SUPPLIER(S)

SECTION D

EMISSION CONTROL EQUIP I. D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MO. / YR.	USEFUL LIFE
66.	67.	68.	69.	70.	71.
72.	73.	74.	75.	76.	77.

SECTION E

CALCULATIONS

TO BE COMPLETED FOR ALL SOURCES USING ITEM 27 AND OTHER SOURCES AS DEFINED IN THE INSTRUCTION FORM 76-11-4

SECTION F

CONTAMINANT NAME	CAS NUMBER	EMISSIONS ACTUAL	UNIT	HOW DET.	PERMISS.	% CONTROL EFFICIENCY	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	10^x	PERMISS.
78. TOTAL PARTICULATES	79. NY075-00-0	80. ~~.059~~ 2.94	81. 11	82. 3	83. .2	84. 0	85. 1.25	86. 1.08	87. 4	88. 1.08
89. SULFUR DIOXIDE	90. 7446-09-5	91. 1.09	92. 11	93. 3	94. 2.18	95. 0	96. 23.12	97. ~~3.996~~	98. 5	99. 3.996
100. NITROGEN OXIDES	101. NY210-00-0	102. 0.27	103. ~~98~~	104. 3	105. .27	106. 0	107. 5.71	108. 4.933	109. 4	110. 4.933
111.	112.	113.	114.	115.	116.	117.	118.	119.	120.	121.
122.	123.	124.	125.	126.	127.	128.	129.	130.	131.	132.

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE STATIONARY COMBUSTION INSTALLATION HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS.

133. SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT: Frank Cervelloni — DATE: 10-28-82

AGENCY USE ONLY

134. LOCATION CODE	135. FACILITY ID. NO.	136. U.T.M. (E)	137. U.T.M. (N)	138. SIC NUMBER	139. DATE APPL. RECEIVED	140. DATE APPL. REVIEWED	141. REVIEWED BY:
2 6 1 4 0 0	0 8 9 4	2 8 4 . 8	7 8 0 . 8	3 8 2 1	11 / 05 / 82	11 / 24 / 82	[illegible]

PERMIT TO CONSTRUCT

142. DATE ISSUED	143. EXPIRATION DATE	144. SIGNATURE OF APPROVAL	145. FEE
11 / 01 / 82	11 / 01 / 83		50

146.
1. DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2. THIS IS NOT A CERTIFICATE TO OPERATE
3. TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

RECOMMENDED ACTION RE: C.O.

147. DATE ISSUED	148. EXPIRATION DATE	149 SIGNATURE OF APPROVAL	150. FEE
/ /	/ /		

151.
1. ☐ INSPECTED BY _____ DATE _____
2. ☐ INSPECTION DISCLOSED DIFFERENCES AS BUILT VS. PERMIT, CHANGES INDICATED ON FORM
3. ☐ ISSUE CERTIFICATE TO OPERATE FOR SOURCE
4. ☐ APPLICATION FOR C.O. DENIED _____ DATE _____ INITIALED

152. SPECIAL CONDITIONS:

1. The total quantity of oil that can be
2. burned in both of the boilers (Un. 1 & 2)
3. is 1,500,000 gallons per year
4.
5.
6.
7.
8.

OP	LOCATION	FACILITY	EMISSION POINT	UNIT
A	26140009	840	01 09	C A

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STATIONARY COMBUSTION INSTALLATION
UNIT DATA

COPIES
WHITE - ORIGINAL
BLUE - DIVISION OF AIR
WHITE - REGIONAL OFFICE
WHITE - FIELD REP
YELLOW - APPLICANT

PLEASE PRINT OR TYPE

SEC. G

154 EMISSION POINT I.D.	155 UNIT I.D.
001 09	A

SECTION H

156 UNIT TYPE	157 UNIT MANUFACTURER'S NAME AND MODEL NUMBER	158 UNIT HEAT INPUT	159 AIR INTAKE
01	Conley Boiler - Foster Wheeler Superheater	59.7	1

160 BURNER TYPE	161 NO. OF BURNERS	162 BURNER MANUFACTURER'S NAME AND MODEL NUMBER	163 FUEL TYPE	164 AVG. QUANTITY OF FUEL/HR	165 MAX. QUANTITY OF FUEL/HR	166 QUANTITY OF FUEL/YR
62	1	Webster Model # FDR	52	20690	58000	89390800

167 HRS./DAY	168 DAYS/YEAR	169 % OPERATION BY SEASON Winter	Spring	Summer	Fall	170 NAME OF SUPPLIER (S)
24	180	25	25	25	25	RG&E

171 BURNER TYPE	172 NO. OF BURNERS	173 BURNER MANUFACTURER'S NAME AND MODEL NUMBER	174 FUEL TYPE	175 AVG. QUANTITY OF FUEL/HR	176 MAX. QUANTITY OF FUEL/HR	177 QUANTITY OF FUEL/YR
52	1	Webster Model # FDR 45	36	141	343	609120

178 HRS./DAY	179 DAYS/YEAR	180 % OPERATION BY SEASON Winter	Spring	Summer	Fall	181 NAME OF SUPPLIER(S)
24	180	25	25	25	25	Monoco Oil

SEC. I

182 EMISSION CONTROL EQUIP I.D.	183 CONTROL TYPE	184 MANUFACTURER'S NAME AND MODEL NUMBER	185 DISPOSAL METHOD	186 DATE INSTALLED MO./YR	187 USEFUL LIFE
	99				
188	189	190	191	192	193

SECTION J

CALCULATIONS

TO BE COMPLETED FOR ALL SOURCES USING ITEM 27 AND OTHER SOURCES AS DEFINED IN THE INSTRUCTION FORM 76-11-4

SECTION K

CONTAMINANT NAME	CAS NUMBER	EMISSIONS ACTUAL	UNIT	HOW DET	% CONTROL EFFICIENCY	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	10*
194 TOTAL PARTICULATES	195 NY075-00-0	196 .059	197 11	198 3	199 0	200 1.25	201 .54	202 4
203 SULFUR DIOXIDE	204 7446-09-5	205 1.09	206 11	207 6	208 0	209 23.12	210 .999	211 5
212 NITROGEN OXIDES	213 NY210-00-0	214 .27	215 11	216 3	217 0	218 5.71	219 2.466	220 4
221	222	223	224	225	226	227	228	229
230	231	232	233	234	235	236	237	238

239 SOURCE CODE
7130

OP	LOCATION	FACILITY	EMISSION POINT	UNIT
A	2 6 1 4 0 0	0 9 8 4	0 0 1 0 9	C B

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STATIONARY COMBUSTION INSTALLATION
UNIT DATA

PLEASE PRINT OR TYPE

COPIES
WHITE - ORIGINAL
BLUE - DIVISION OF AIR
WHITE - REGIONAL OFFICE
WHITE - FIELD REP
YELLOW - APPLICANT

SEC. G	154. EMISSION POINT I.D.	155. UNIT I.D.
	0 0 1 0 9	B

SECTION H

156. UNIT TYPE	157. UNIT MANUFACTURER'S NAME AND MODEL NUMBER	158. UNIT HEAT INPUT	159. AIR INTAKE
01	Conley Boiler - Foster Wheeler Superheater	59.7	1

160. BURNER TYPE	161. NO. OF BURNERS	162. BURNER MANUFACTURER'S NAME AND MODEL NUMBER	163. FUEL TYPE	164. AVG. QUANTITY OF FUEL/HR	165. MAX. QUANTITY OF FUEL/HR	166. QUANTITY OF FUEL/YR
02	1	Webster Model # FDR	5L	20690	58000	89380800

167. HRS./DAY	168. DAYS/YEAR	169. % OPERATION BY SEASON (Winter / Spring / Summer / Fall)	170. NAME OF SUPPLIER (S)
24	180	25 / 25 / 25 / 25	RG&E

171. BURNER TYPE	172. NO. OF BURNERS	173. BURNER MANUFACTURER'S NAME AND MODEL NUMBER	174. FUEL TYPE	175. AVG. QUANTITY OF FUEL/HR	176. MAX. QUANTITY OF FUEL/HR	177. QUANTITY OF FUEL/YR
52	1	Webster model # FDR 45	36	141	393	609120

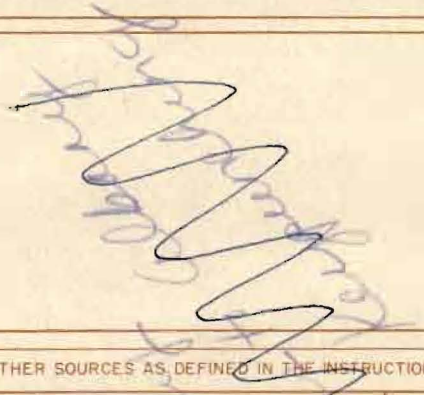
178. HRS./DAY	179. DAYS/YEAR	180. % OPERATION BY SEASON (Winter / Spring / Summer / Fall)	181. NAME OF SUPPLIER(S)
24	180	25 / 25 / 25 / 25	Monaco 0.1

SECTION I

EMISSION CONTROL EQUIP I.D.	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MO/YR	USEFUL LIFE
182.	183. 99	184.	185.	186.	187.
188.	189.	190.	191.	192.	193.

SECTION J

CALCULATIONS



SECTION K

TO BE COMPLETED FOR ALL SOURCES USING ITEM 27 AND OTHER SOURCES AS DEFINED IN THE INSTRUCTION FORM 76-11-4

CONTAMINANT NAME	CAS NUMBER	EMISSIONS ACTUAL	UNIT	HOW DET	% CONTROL EFFICIENCY	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/YR) ACTUAL	10^X
194. TOTAL PARTICULATES	195. NY075-00-0	196. .059	197. 11	198. 3	199. 0	200. 1.25	201. .54	202. 4
203. SULFUR DIOXIDE	204. 7446-09-5	205. 1.09	206. 11	207. 6	208. 0	209. 23.12	210. .999	211. 5
212. NITROGEN OXIDES	213. NY210-00-0	214. .27	215. 11	216. 3	217. 0	218. 5.71	219. 2.466	220. 4
221.	222.	223.	224.	225.	226.	227.	228.	229.
230.	231.	232.	233.	234.	235.	236.	237.	238.

239. SOURCE CODE
7130

N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION - DIVISION OF AIR 01/24/8

261400 0894 00109 W CB
LOCATION FAC EP UNIT

CERTIFICATE TO OPERATE AN AIR CONTAMINATION SOURCE
STATIONARY COMBUSTION INSTALLATION UNIT

OWNER	FACILITY	
(1) TAYLOR INSTRUMENT PRO CONT DIV	(6) TAYLOR INST PROCESS CONTROL	(11) CONFIDENTIAL STATUS NON-CONFIDNTL
(2) 95 AMES ST	(7) 95 AMES ST	(12) COMPLIANCE STATUS IN COMPLIANCE
(3) ROCHESTER (4) NY	(8) ROCHESTER (9) 14601	DATE OF LAST CHANGE 01/17/84
(5) 14601	(10) REP: F. CERVELLONI	(13) PRIOR CO ISSUE DATE
		(14) PRIOR CO EXPIRATION DATE

PAGE 2
CONTINUED FROM PREVIOUS PAGE

EMISSION POINT 00109

(41)UTM-E: 284.8 KM. (42)STACK HEIGHT: 100 FT. (43)EXIT VELOCITY: 11.40 FT/SEC (44)SIC: 3821 (45)AGENCY-CODE-1:
(46)UTM-N: 780.8 KM. (47)HT ABV STRUC: 56 FT. (48)EXIT FLOW: 22023.00 ACFM (49)CO FEE: (50)AGENCY-CODE-2:
(51)GRND ELEV: 530 FT. (52)STK DIAM: 77 IN. (53)EXIT TEMP: 550 DEGR F (54)CO CONDITIONS: 1 3
(55)HEAT INPUT: ~~119.4~~ 59.7 MILLIONS BTU/HR (56)CONTINUOUS MONITORS: (D)O2 (F)OTHER

UNIT CB
(57)TYPE: 001 PACKAGE BOILER (58)MFG: CONLEY BOILER-FOSTER WHEELER SUPERHEATER (59)HEAT INPUT: 59.70 MILLIONS BTU/HR
(60)AIR INTAKE: 1 OUTSIDE AIR INTAKE (61)SOURCE CODE: 7130 POWER GEN - MULTI

BURNER DATA (64)TYPE: 062 FORCED DRAFT POWER (65)MFG: WEBSTER MODEL #FDR (66)NO. OF BURNERS: 1

FUEL DATA (67)TYPE: 052 NATURAL GAS FUEL QUANTITIES: (68)AVG/HR: 20690.0 (69)MAX/HR: 58000.0 (70)TOTAL/YEAR: 89380800
(71)FUEL SUPPLIER: RG&E (72)HOURS/DAY: 24.0 (73)DAYS/YEAR: 180 (74)% OP BY SEASON: 25 25 25 2

BURNER DATA (75)TYPE: 052 STEAM ATOMIZED (76)MFG: WEBSTER MODEL #FDR45 (77)NO. OF BURNERS: 1

FUEL DATA (78)TYPE: 036 NO 6 OIL - VIRGIN FUEL QUANTITIES: (79)AVG/HR: 141.0 (80)MAX/HR: 393.0 (81)TOTAL/YEAR: 609120
(82)FUEL SUPPLIER: MONOCO OIL (83)HOURS/DAY: 24.0 (84)DAYS/YEAR: 180 (85)% OP BY SEASON: 25 25 25 2

CONTROL EQUIPMENT (86)TYPE: 099 NONE

AIR CONTAMINANTS		CAS NUMBER	EMISSIONS ACTUAL		UNIT		HOW DET		% CONTROL EFFICIENCY		HRLY ACTUAL LBS/HOUR		ANNUAL EMISSIONS (LBS/YEAR) ACTUAL		10^x
PARTICULATES	(098)	NY075-00-0	(099)	.059	(100)	11	(101)	03	(103)		(104)	1.250	(105)	.540	(106) 4
SULFUR DIOXIDE	(108)	07446-09-5	(109)	1.090	(110)	11	(111)	06	(113)		(114)	23.120	(115)	.999	(116) 5
OXIDES OF NITROGEN	(118)	NY210-00-0	(119)	.270	(120)	11	(121)	03	(123)		(124)	5.710	(125)	2.466	(126) 4

CONTINUED ON NEXT PAGE

N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION - DIVISION OF AIR 01/24/8

261400 0894 00109 W C
LOCATION FAC EP

CERTIFICATE TO OPERATE AN AIR CONTAMINATION SOURCE
STATIONARY COMBUSTION INSTALLATION UNIT

OWNER	FACILITY	
(1) TAYLOR INSTRUMENT PRO CONT DIV	(6) TAYLOR INST PROCESS CONTROL	(11) CONFIDENTIAL STATUS NON-CONFIDNTL
(2) 95 AMES ST	(7) 95 AMES ST	(12) COMPLIANCE STATUS IN COMPLIANCE
(3) ROCHESTER (4) NY	(8) ROCHESTER (9) 14601	DATE OF LAST CHANGE 01/17/84
(5) 14601	(10) REP: F. CERVELLONI	(13) PRIOR CO ISSUE DATE
		(14) PRIOR CO EXPIRATION DATE

PAGE 3
CONTINUED FROM PREVIOUS PAGE

EMISSION POINT 00109

(41)UTM-E: 284.8 KM. (42)STACK HEIGHT: 100 FT. (43)EXIT VELOCITY: 11.40 FT/SEC (44)SIC: 3821 (45)AGENCY-CODE-1:
(46)UTM-N: 780.8 KM. (47)HT ABV STRUC: 56 FT. (48)EXIT FLOW: 22023.00 ACFM (49)CO FEE: (50)AGENCY-CODE-2:
(51)GRND ELEV: 530 FT. (52)STK DIAM: 77 IN. (53)EXIT TEMP: 550 DEGR F (54)CO CONDITIONS: 1 3

(55)HEAT INPUT: 119.4 MILLIONS BTU/HR (56)CONTINUOUS MONITORS: (D)O2 (F)OTHER

UNIT C
(57)TYPE: (58)MFG: (59)HEAT INPUT: MILLIONS BTU/HR
(60)AIR INTAKE: (61)SOURCE CODE:
(62)BLDG: 14 (63)FLOOR NAME: FLOOR 1

AIR CONTAMINANTS	CAS NUMBER	EMISSIONS ACTUAL	UNIT	HOW DET	PERMISSIBLE	% CONTROL EFFICIENCY	HRLY ACTUAL LBS/HOUR	ANNUAL EMISSIONS (LBS/YEAR) ACTUAL	10^x	PERMISSIBLE
PARTICULATES	(098) NY075-00-0	(099) .059	(100) 11	(101) 03	(102) .200	(103)	(104) 1.250	(105) 1.080	(106) 4	(107) 1.080
SULFUR DIOXIDE	(108) 07446-09-5	(109) 1.090	(110) 11	(111) 03	(112) 2.180	(113)	(114) 23.120	(115) 3.996	(116) 5	(117) 3.996
OXIDES OF NITROGEN	(118) NY210-00-0	(119) .270	(120) 98	(121) 03	(122) .270	(123)	(124) 5.710	(125) 4.933	(126) 4	(127) 4.933

SPECIAL CONDITIONS (148)CONDITION
1. THE TOTAL QUANTITY OF OIL THAT CAN BE BURNED IN BOTH OF
2. THE BOILERS (UNIT A & B) IS 1500000 GALLONS PER YEAR

(15)PRIOR COMMENTS (16)BY (17)DATE
1.
2.
3.
4.
5.

(18)CURRENT COMMENTS (19)BY J. Kennedy (20)DATE 10/27/83
1. Unit 1 operating - oil - Scotblowdaken
2. Internal scheduled for Nov '83
3. Unit 2 - not operating last Internal 7-26-83
4. Oil Supplier - Allied
5. Boiler equipment operation SAT

(21)COMPLIANCE 5
(22)DATE OF NEXT ACTION 07/01/86
CERTIFICATE TO OPERATE
(23)ISSUE DATE 11/01/83
(24)EXPIRATION DATE 11/01/86
(25)CO FEE $30.00

FIRM REP'S SIGNATURE: DATE: ISSUING OFFICER'S SIGNATURE: DATE:

OK DE

N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION - DIVISION OF AIR 01/24/

261400 0894 00109 W CA
LOCATION FAC EP UNIT

CERTIFICATE TO OPERATE AN AIR CONTAMINATION SOURCE
STATIONARY COMBUSTION INSTALLATION UNIT

OWNER	FACILITY	
(1) TAYLOR INSTRUMENT PRO CONT DIV	(6) TAYLOR INST PROCESS CONTROL	(11) CONFIDENTIAL STATUS NON-CONFIDNTI
(2) 95 AMES ST	(7) 95 AMES ST	(12) COMPLIANCE STATUS IN COMPLIANC
(3) ROCHESTER (4) NY	(8) ROCHESTER (9) 14601	DATE OF LAST CHANGE 01/17/84
(5) 14601	(10) REP: F. CERVELLONI	(13) PRIOR CO ISSUE DATE
		(14) PRIOR CO EXPIRATION DATE

EMISSION POINT 00109
(41)UTM-E: 284.8 KM. (42)STACK HEIGHT: 100 FT. (43)EXIT VELOCITY: 11.40 FT/SEC (44)SIC: 3821 (45)AGENCY-CODE-1:
(46)UTM-N: 780.8 KM. (47)HT ABV STRUC: 56 FT. (48)EXIT FLOW: 22023.00 ACFM (49)CO FEE: (50)AGENCY-CODE-2:
(51)GRND ELEV: 530 FT. (52)STK DIAM: 77 IN. (53)EXIT TEMP: 550 DEGR F (54)CO CONDITIONS: 1 3

(55)HEAT INPUT: ~~119.4~~ 59.7 MILLIONS BTU/HR (56)CONTINUOUS MONITORS: (D)O2 (F)OTHER

UNIT CA (57)TYPE: 001 PACKAGE BOILER (58)MFG: CONLEY BOIL-FOSTER WHEELER (59)HEAT INPUT: 59.70 MILLIONS BTU/HR
(60)AIR INTAKE: 1 OUTSIDE AIR INTAKE (61)SOURCE CODE: 7130 POWER GEN - MULTI

BURNER DATA (64)TYPE: 062 FORCED DRAFT POWER (65)MFG: WEBSTER MODEL #FDR (66)NO. OF BURNERS: 1

FUEL DATA (67)TYPE: 052 NATURAL GAS FUEL QUANTITIES: (68)AVG/HR: 20690.0 (69)MAX/HR: 58000.0 (70)TOTAL/YEAR: 89380800
(71)FUEL SUPPLIER: RG&E (72)HOURS/DAY: 24.0 (73)DAYS/YEAR: 180 (74)% OP BY SEASON: 25 25 25

BURNER DATA (75)TYPE: 052 STEAM ATOMIZED (76)MFG: WEBSTER MODEL #FDR45 (77)NO. OF BURNERS: 1

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(82)FUEL SUPPLIER: MONOCO OIL (83)HOURS/DAY: 24.0 (84)DAYS/YEAR: 180 (85)% OP BY SEASON: 25 25 25

CONTROL EQUIPMENT (86)TYPE: 099 NONE

AIR CONTAMINANTS		CAS NUMBER	EMISSIONS ACTUAL		UNIT		HOW DET		% CONTROL EFFICIENCY	HRLY ACTUAL LBS/HOUR		ANNUAL EMISSIONS (LBS/YEAR) ACTUAL		10^x
PARTICULATES	(098)	NY075-00-0	(099)	.059	(100)	11	(101)	03	(103)	(104)	1.250	(105)	.540	(106) 4
SULFUR DIOXIDE	(108)	07446-09-5	(109)	1.090	(110)	11	(111)	06	(113)	(114)	23.120	(115)	.999	(116) 5
OXIDES OF NITROGEN	(118)	NY210-00-0	(119)	.270	(120)	11	(121)	03	(123)	(124)	5.710	(125)	2.466	(126) 4

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