

**Exhibit "B"**  
**Rotary Lobe Blower**  
**Blower Teardown Report**  
 Page 2 of 7

Teardown Date: \_\_\_\_\_ Contractor's Job #: \_\_\_\_\_

**Lobe Clearances:**

Inlet:	_____	_____	_____	_____
	Spec.	Drive End	Middle	Driven End
Center:	_____	_____	_____	_____
	Spec.	Drive End	Middle	Driven End
Discharge:	_____	_____	_____	_____
	Spec.	Drive End	Middle	Driven End
Head Plate Drive End:				
Drive Lobe:		_____	_____	_____
		Spec.	Reading #1	Reading #2
Driven Lobe:		_____	_____	_____
		Spec.	Reading #1	Reading #2
Head Plate Aft End:				
Drive Lobe:		_____	_____	_____
		Spec.	Reading #1	Reading #2
Driven Lobe:		_____	_____	_____
		Spec.	Reading #1	Reading #2

**Run out & Backlash:**

Gear Run out:	_____	_____	_____		
	Spec.	Drive Gear	Driven Gear		
Gear Backlash:	_____	_____	_____	_____	
	Spec.	12 o'clock	3 o'clock	6 o'clock	9 o'clock
Input Shaft Run out:	Spec. _____	Actual _____			

**Exhibit "B"**  
**Rotary Lobe Blower**  
**Blower Teardown Report**  
Page 3 of 7

Teardown Date: \_\_\_\_\_ Contractor's Job #: \_\_\_\_\_

**Shaft Dimensions:**

	<u>Spec.</u>	<u>12 o'clock</u>	<u>3 o'clock</u>
Drive Lobe:			
Bearing Area Drive End:	_____	_____	_____
Bearing Area Driven End:	_____	_____	_____
Seal Area Drive End:	_____	_____	_____
Seal Area Driven End:	_____	_____	_____
Laby Area Drive End:	_____	_____	_____
Laby Area Driven End:	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Comments & Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

	<u>Spec.</u>	<u>12 o'clock</u>	<u>3 o'clock</u>
Driven Lobe:			
Bearing Area Drive End:	_____	_____	_____
Bearing Area Driven End:	_____	_____	_____
Seal Area Drive End:	_____	_____	_____
Seal Area Driven End:	_____	_____	_____
Laby Area Drive End:	_____	_____	_____
Laby Area Driven End:	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Comments & Recommendations: \_\_\_\_\_  
\_\_\_\_\_

**Exhibit "B"**  
**Rotary Lobe Blower**  
**Blower Teardown Report**  
Page 4 of 7

Teardown Date: \_\_\_\_\_ Contractor's Job #: \_\_\_\_\_

**Drive Lobe - Run out & Overall Dimensions:**

x Dimension:      Spec \_\_\_\_\_      Actual \_\_\_\_\_

y Dimension:      Spec \_\_\_\_\_      Actual \_\_\_\_\_

Comments & Recommendations: \_\_\_\_\_  
\_\_\_\_\_

**Driven Lobe - Run out & Overall Dimensions:**

x Dimension:      Spec \_\_\_\_\_      Actual \_\_\_\_\_

y Dimension:      Spec \_\_\_\_\_      Actual \_\_\_\_\_

Comments & Recommendations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Dimensions - Bearing Bores, Bearing Carriers & Seal Bores:**

	<u>Spec.</u>	<u>12 o'clock</u>	<u>3 o'clock</u>
Pos. #1 Drive End, Drive Lobe:			
Head Plate Brg Bore	_____	_____	_____
Carrier Small OD	_____	_____	_____
Carrier Large OD	_____	_____	_____
Carrier Brg ID Front	_____	_____	_____
Carrier Brg ID Back	_____	_____	_____
Head Plate Laby Bore	_____	_____	_____
Seal Bore #1 _____	_____	_____	_____
Seal Bore #2 _____	_____	_____	_____

Comments & Recommendations: \_\_\_\_\_

**Exhibit "B"**  
**Rotary Lobe Blower, Blower Teardown Report**  
 Page 5 of 7

Teardown Date: \_\_\_\_\_ Contractor's Job #: \_\_\_\_\_

**Dimensions - Bearing Bores, Bearing Carriers & Seal Bores (cont.):**

	<u>Spec.</u>	<u>12 o'clock</u>	<u>3 o'clock</u>
Pos. #2 Drive End, Driven Lobe:			
Head Plate Brg Bore	_____	_____	_____
Carrier Small OD	_____	_____	_____
Carrier Large OD	_____	_____	_____
Carrier Brg ID Front	_____	_____	_____
Carrier Brg ID Back	_____	_____	_____
Head Plate Laby Bore	_____	_____	_____
Seal Bore #1 _____	_____	_____	_____
Seal Bore #2 _____	_____	_____	_____

Comments & Recommendations: \_\_\_\_\_

Pos. #3 Aft End, Drive Lobe:			
Head Plate Brg Bore	_____	_____	_____
Carrier Small OD	_____	_____	_____
Carrier Large OD	_____	_____	_____
Carrier Brg ID Front	_____	_____	_____
Carrier Brg ID Back	_____	_____	_____
Head Plate Laby Bore	_____	_____	_____
Seal Bore #1 _____	_____	_____	_____
Seal Bore #2 _____	_____	_____	_____

Comments & Recommendations: \_\_\_\_\_

**Exhibit "B"**  
**Rotary Lobe Blower**  
**Blower Teardown Report**  
Page 6 of 7

Teardown Date: \_\_\_\_\_ Contractor's Job #: \_\_\_\_\_

Pos. #4 Aft End, Driven Lobe:

Head Plate Brg Bore	_____	_____	_____
Carrier Small OD	_____	_____	_____
Carrier Large OD	_____	_____	_____
Carrier Brg ID Front	_____	_____	_____
Carrier Brg ID Back	_____	_____	_____
Head Plate Laby Bore	_____	_____	_____
Seal Bore #1	_____	_____	_____
Seal Bore #2	_____	_____	_____

Comments & Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Flatness Test:**

	<u>Spec.</u>	<u>Reading #1</u>	<u>Reading #2</u>
Drive Lobe:			
Drive End:	_____	_____	_____
Aft End:	_____	_____	_____
Driven Lobe:			
Drive End:	_____	_____	_____
Aft End:	_____	_____	_____

Comments & Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Exhibit "B"**  
**Rotary Lobe Blower**  
**Blower Teardown Report**  
**Page 7 of 7**

Teardown Date: \_\_\_\_\_ Contractor's Job #: \_\_\_\_\_

**Flatness Test: (cont.)**

Drive Head Plate \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Aft Head Plate \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Miscellaneous Information:**

Cylinder Condition & Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Oil Pump Condition & Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Mechanical Seal Condition & Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Other Comments & Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Exhibit "C"**  
**Multi-Stage Centrifugal**  
**Blower Teardown Report**  
Page 1 of 3

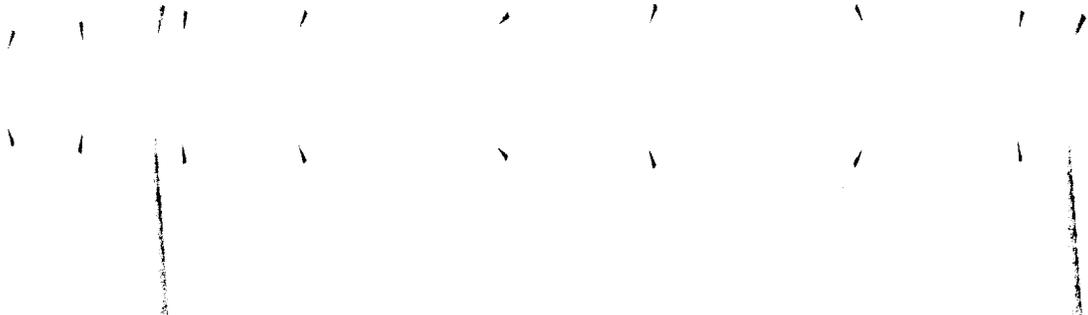
Teardown Date: \_\_\_\_\_ Contractor's Job #: \_\_\_\_\_

City of Houston Contract No.: \_\_\_\_\_ Contractor: \_\_\_\_\_

Facility No: \_\_\_\_\_ City's WO No.: \_\_\_\_\_ Manufacturer: \_\_\_\_\_

Model #: \_\_\_\_\_ Serial No: \_\_\_\_\_ EI #: \_\_\_\_\_

Shaft Information: Inlet Drive \_\_\_\_\_ or Discharge Drive \_\_\_\_\_



Average Dimension/Variance \_\_\_\_\_  
Total Indicated Runout \_\_\_\_\_  
Description of Damage & Recommendations \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Exhibit "C"**  
**Multi-Stage Centrifugal**  
**Blower Teardown Report**

Teardown Date: \_\_\_\_\_

Contractor's Job #: \_\_\_\_\_

**Discharge Bearing Housing**

ID @ 12:00 o'clock \_\_\_\_\_  
 ID @ 3:00 o'clock \_\_\_\_\_

Average ID \_\_\_\_\_  
 Spec. ID \_\_\_\_\_

Comments and Recommendations:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Inlet Bearing Housing**

ID @ 12:00 o'clock \_\_\_\_\_  
 ID @ 3:00 o'clock \_\_\_\_\_

Average ID \_\_\_\_\_  
 Spec. ID \_\_\_\_\_

Comments and Recommendations:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Impeller Information:** (begin numbering impellers at the discharge\_\_\_ or inlet\_\_\_ end)

#	Impeller Number	BC/ Rad	Fab/	No. of Cast	ID@ Shim	ID@ 12:00	ID 3:00	ID Avg.	NDT Spec	Use Y/N	Repair Y/N	Y/N
1	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
2	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
6	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
7	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
8	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
9	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

Results of Visual Inspection and NDT including Repair Recommendations if any:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Exhibit "C"**  
**Multi-Stage Centrifugal**  
**Blower Teardown Report**  
Page 3 of 3

Teardown Date: \_\_\_\_\_ Contractor's Job #: \_\_\_\_\_

**Housing Information:** (begin numbering housings at the discharge\_\_\_ or inlet\_\_\_ end)

<u>Housing</u>	<u>NDT</u>	<u>OK</u>	<u>If No Describe in Detail (use space provided below if needed)</u>
<u>Y/N</u>	<u>Y/N</u>		
1	___	___	_____
2	___	___	_____
3	___	___	_____
4	___	___	_____
5	___	___	_____
6	___	___	_____
7	___	___	_____
8	___	___	_____

General Comments, Elaborations of Above if Necessary and Recommendations:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Discharge Labyrinth Seal** (if applicable)

**Inlet Labyrinth Seal** (if applicable)

ID @ 12:00 o'clock \_\_\_\_\_  
ID @ 3:00 o'clock \_\_\_\_\_

ID @ 12:00 o'clock \_\_\_\_\_  
ID @ 3:00 o'clock \_\_\_\_\_

Average ID \_\_\_\_\_  
Spec. ID: \_\_\_\_\_

Average ID \_\_\_\_\_  
Spec. ID: \_\_\_\_\_

Reuse: \_\_\_\_\_ Replace: \_\_\_\_\_

Reuse: \_\_\_\_\_ Replace: \_\_\_\_\_

Other Observations and Recommendations: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Technician

\_\_\_\_\_  
Foreman

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

**Exhibit "D"**  
**Blower Teardown Report**  
**Single Stage Centrifugal**  
Page 1 of 6

Teardown Date: \_\_\_\_\_ Contractor's Job #: \_\_\_\_\_  
City of Houston Contract No.: \_\_\_\_\_ Contractor: \_\_\_\_\_  
Facility No: \_\_\_\_\_ City's WO No.: \_\_\_\_\_ Manufacturer: \_\_\_\_\_  
Model #: \_\_\_\_\_ Serial No: \_\_\_\_\_ EI #: \_\_\_\_\_

**Low Speed Shaft Information:**

Dimensions: 12:00/3:00

Total Indicated Runout

Description of Damage & Recommendations \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Exhibit "D"**  
**Blower Teardown Report**  
**Single Stage Centrifugal**  
Page 2 of 6

Teardown Date: \_\_\_\_\_

Contractor's Job #: \_\_\_\_\_

**High Speed Shaft Information:**

Dimension: 12:00/3:00



Total Indicated Runout

Description of Damage & Recommendations \_\_\_\_\_  
\_\_\_\_\_

**Impeller Speed Calculation:**

Low Speed Teeth \_\_\_\_\_ / High Speed Teeth \_\_\_\_\_ x Motor Speed \_\_\_\_\_ = \_\_\_\_\_

**Exhibit "D"**  
**Blower Teardown Report**  
**Single Stage Centrifugal**  
Page 3 of 6

Teardown Date: \_\_\_\_\_

Contractor's Job #: \_\_\_\_\_

**High Speed Bore - Main Housing:**

**Low Speed Bore - Main Housing:**

<b>Drive Side ID</b>	<b>Impeller Side ID</b>
12:00 _____	12:00 _____
3:00 _____	3:00 _____
Avg. _____	Avg. _____
Spec _____	Spec _____

<b>Drive Side ID</b>	<b>Impeller Side ID</b>
12:00 _____	12:00 _____
3:00 _____	3:00 _____
Avg. _____	Avg. _____
Spec _____	Spec _____

OK \_\_\_\_\_ or Repair \_\_\_\_\_

OK \_\_\_\_\_ or Repair \_\_\_\_\_

Comments & Recommendations:

Comments & Recommendations:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**High Speed Bore - Cover Plate:**

**Low Speed Bore - Cover Plate:**

<b>Drive Side ID</b>	<b>Impeller Side ID</b>
12:00 _____	12:00 _____
3:00 _____	3:00 _____
Avg. _____	Avg. _____
Spec _____	Spec _____

<b>Drive Side ID</b>	<b>Impeller Side ID</b>
12:00 _____	12:00 _____
3:00 _____	3:00 _____
Avg. _____	Avg. _____
Spec _____	Spec _____

OK \_\_\_\_\_ or Repair \_\_\_\_\_

OK \_\_\_\_\_ or Repair \_\_\_\_\_

Comments & Recommendations:

Comments & Recommendations:

_____	_____
_____	_____
_____	_____

**Thrust Collar Information:**

Description of Damage & Recommendations \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Exhibit "D"**  
**Blower Teardown Report**  
**Single Stage Centrifugal**  
Page 4 of 6

Teardown Date: \_\_\_\_\_

Contractor's Job #: \_\_\_\_\_

**Shaft Seal - High Speed:**

<b>Laby-Large ID</b>	<b>Laby - Small ID</b>
12:00 _____	12:00 _____
3:00 _____	3:00 _____
Avg. _____	Avg. _____
Spec _____	Spec _____

**Shaft Seal - Low Speed:**

<b>Drive Side ID</b>	<b>Impeller Side ID</b>
12:00 _____	12:00 _____
3:00 _____	3:00 _____
Avg. _____	Avg. _____
Spec _____	Spec _____

<b>Windback ID</b>	<b>Drive Side OD</b>
12:00 _____	12:00 _____
3:00 _____	3:00 _____
Avg. _____	Avg. _____
Spec _____	Spec _____

OK \_\_\_\_\_ or Repair \_\_\_\_\_

Comments & Recommendations:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Impeller Side OD**

12:00 \_\_\_\_\_

3:00 \_\_\_\_\_

Avg. \_\_\_\_\_

Spec \_\_\_\_\_

**Shaft Seal - High Speed - Housing Bore**

<b>Drive Side ID</b>	<b>Impeller Side ID</b>
12:00 _____	12:00 _____
3:00 _____	3:00 _____
Avg. _____	Avg. _____
Spec _____	Spec _____

OK \_\_\_\_\_ or Repair \_\_\_\_\_

Comments & Recommendations:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Comments & Recommendations:

**Impeller Information:**

Depth from Face to End of Shaft \_\_\_\_\_ NDT Yes \_\_\_ or No \_\_\_

Depth from Face to Polygon Landing \_\_\_\_\_

Axial Float of Impeller \_\_\_\_\_

OD of Laby Seal Fit on Back of Impeller (if applicable) \_\_\_\_\_

Results of Visual Inspection and NDT (if done) and Recommendations:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Contract #4600000782

**Exhibit "D"**  
**Blower Teardown Report**  
**Single Stage Centrifugal**  
Page 6 of 6

Teardown Date: \_\_\_\_\_

Contractor's Job #: \_\_\_\_\_

**Assembly Runout:**

Other Observations and Recommendations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Technician

\_\_\_\_\_  
Foreman

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

Fee Schedule

**1 Year One - Hoffman Blowers: Multi-Stage Centrifugal Blowers <300 Horsepower GroupHM1**

Item #	Description	Unit of Measure	Unit Price
1	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
2	Transport unit to Contractor's shop facility	each	\$600.00
3	Return the repaired unit to City facility	each	\$600.00
4	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
5	Overhaul-Repair as defined in the Specification	each	\$20000.00
6	Standard Labor Rate for Work at City Facility	hour	\$150.00
7	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
8	Overtime Labor Rate for Work at City Facility	hour	\$225.00
9	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
10	Emergency Labor Rate for Work at City Facility	hour	\$225.00
11	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
12	Sandblasting	hour	\$100.00
13	Machining in house	hour	\$100.00
14	Non-Repairable Shop Cost	each	\$1000.00
15	Crane and Rigging (Contractor Owned)	hour	\$50.00
16	Preventive Maintenance Program per group	month	\$1500.00
17	Preventive Maintenance Program per group	quarter	\$1500.00
18	Preventive Maintenance Program per group	annual	\$1500.00
19	Predictive Maintenance Program per group	month	\$1500.00
20	Predictive Maintenance Program per group	quarter	\$1500.00
21	Predictive Maintenance Program per group	annual	\$1500.00

**2 Year One - Hoffman Blowers: Multi-Stage Centrifugal Blowers <300 Horsepower GroupHM1**

Item #	Description	% Markup
22	Chroming by others (Original Invoice)	20.00
23	Metallizing by others (Original Invoice)	20.00
24	Work by Subcontractor (Original Invoice)	20.00
25	Non Destructive Testing (Original Invoice)	20.00
26	Parts and Materials (Original Invoice)	20.00
27	Cost to Replace a Unit	10.00
28	Crane and Rigging (Rented:Original Invoice)	20.00

**3 Year One - Hoffman Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group HM2**

Item #	Description	Unit of Measure	Unit Price
29	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
30	Transport unit to Contractor's shop facility	each	\$800.00
31	Return the repaired unit to City facility	each	\$800.00
32	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
33	Overhaul-Repair as defined in the Specification	each	\$25000.00
34	Standard Labor Rate for Work at City Facility	hour	\$150.00
35	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
36	Overtime Labor Rate for Work at City Facility	hour	\$225.00
37	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
38	Emergency Labor Rate for Work at City Facility	hour	\$225.00
39	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
40	Sandblasting	hour	\$100.00
41	Machining in house	hour	\$100.00
42	Non-Repairable Shop Cost	each	\$1000.00
43	Crane and Rigging (Contractor Owned)	hour	\$50.00
44	Preventive Maintenance Program per group	month	\$180.00
45	Preventive Maintenance Program per group	quarter	\$180.00
46	Preventive Maintenance Program per group	annual	\$180.00
47	Predictive Maintenance Program per group	month	\$180.00
48	Predictive Maintenance Program per group	quarter	\$180.00
49	Predictive Maintenance Program per group	annual	\$180.00

**4 Year One - Hoffman Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group HM2**

Item #	Description	% Markup
50	Chroming by others (Original Invoice)	20.00
51	Metallizing by others (Original Invoice)	20.00
52	Work by Subcontractor (Original Invoice)	20.00
53	Non Destructive Testing (Original Invoice)	20.00
54	Parts and Materials (Original Invoice)	20.00
55	Cost to Replace a Unit	10.00
56	Crane and Rigging (Rented:Original Invoice)	20.00

**5 Year One - Hoffman Blowers: Multi-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group HM3**

Item #	Description	Unit of Measure	Unit Price
57	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
58	Transport unit to Contractor's shop facility	each	\$800.00
59	Return the repaired unit to City facility	each	\$800.00
60	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
61	Overhaul-Repair as defined in the Specification	each	\$25000.00
62	Standard Labor Rate for Work at City Facility	hour	\$150.00
63	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
64	Overtime Labor Rate for Work at City Facility	hour	\$225.00
65	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
66	Emergency Labor Rate for Work at City Facility	hour	\$225.00
67	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
68	Sandblasting	hour	\$100.00
69	Machining in house	hour	\$100.00
70	Non-Repairable Shop Cost	each	\$1000.00
71	Crane and Rigging (Contractor Owned)	hour	\$100.00
72	Preventive Maintenance Program per group	month	\$200.00
73	Preventive Maintenance Program per group	quarter	\$200.00
74	Preventive Maintenance Program per group	annual	\$200.00
75	Predictive Maintenance Program per group	month	\$200.00
76	Predictive Maintenance Program per group	quarter	\$200.00
77	Predictive Maintenance Program per group	annual	\$200.00

**6 Year One - Hoffman Blowers: Multi-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group HM3**

Item #	Description	% Markup
78	Chroming by others (Original Invoice)	20.00
79	Metallizing by others (Original Invoice)	20.00
80	Work by Subcontractor (Original Invoice)	20.00
81	Non Destructive Testing (Original Invoice)	20.00
82	Parts and Materials (Original Invoice)	20.00
83	Cost to Replace a Unit	10.00
84	Crane and Rigging (Rented:Original Invoice)	20.00

**Year One - Lamson Blowers: Multi-Stage Centrifugal Blowers <100 Horsepower Group LM1**

Item #	Description	Unit of Measure	Unit Price
85	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
86	Transport unit to Contractor's shop facility	each	\$600.00
87	Return the repaired unit to City facility	each	\$600.00
88	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
89	Overhaul-Repair as defined in the Specification	each	\$20000.00
90	Standard Labor Rate for Work at City Facility	hour	\$150.00
91	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
92	Overtime Labor Rate for Work at City Facility	hour	\$225.00
93	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
94	Emergency Labor Rate for Work at City Facility	hour	\$225.00
95	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
96	Sandblasting	hour	\$100.00
97	Machining in house	hour	\$100.00
98	Non-Repairable Shop Cost	each	\$1000.00
99	Crane and Rigging (Contractor Owned)	hour	\$50.00
100	Preventive Maintenance Program per group	month	\$1650.00
101	Preventive Maintenance Program per group	quarter	\$1650.00
102	Preventive Maintenance Program per group	annual	\$1650.00
103	Predictive Maintenance Program per group	month	\$1650.00
104	Predictive Maintenance Program per group	quarter	\$1650.00
105	Predictive Maintenance Program per group	annual	\$1650.00

**8 Year One - Lamson Blowers: Multi-Stage Centrifugal Blowers <100 Horsepower LM1**

Item #	Description	% Markup
106	Chroming by others (Original Invoice)	20.00
107	Metallizing by others (Original Invoice)	20.00
108	Work by Subcontractor (Original Invoice)	20.00
109	Non Destructive Testing (Original Invoice)	20.00
110	Parts and Materials (Original Invoice)	20.00
111	Cost to Replace a Unit	10.00
112	Crane and Rigging (Rented:Original Invoice)	20.00

**9 Year One - Lamson Blowers: Multi-Stage Centrifugal Blowers 100 Horsepower to <200HP Group LM2**

Item #	Description	Unit of Measure	Unit Price
113	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
114	Transport unit to Contractor's shop facility	each	\$600.00
115	Return the repaired unit to City facility	each	\$600.00
116	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
117	Overhaul-Repair as defined in the Specification	each	\$20000.00
118	Standard Labor Rate for Work at City Facility	hour	\$150.00
119	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
120	Overtime Labor Rate for Work at City Facility	hour	\$225.00
121	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
122	Emergency Labor Rate for Work at City Facility	hour	\$225.00
123	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
124	Sandblasting	hour	\$100.00
125	Machining in house	hour	\$100.00
126	Non-Repairable Shop Cost	each	\$1000.00
127	Crane and Rigging (Contractor Owned)	hour	\$50.00
128	Preventive Maintenance Program per group	month	\$1700.00
129	Preventive Maintenance Program per group	quarter	\$1700.00
130	Preventive Maintenance Program per group	annual	\$1700.00
131	Predictive Maintenance Program per group	month	\$1700.00
132	Predictive Maintenance Program per group	quarter	\$1700.00
133	Predictive Maintenance Program per group	annual	\$1700.00

**10 Year One - Lamson Blowers: Multi-Stage Centrifugal Blowers 100 Horsepower to <200HP Group LM2**

Item #	Description	% Markup
134	Chroming by others (Original Invoice)	20.00
135	Metallizing by others (Original Invoice)	20.00
136	Work by Subcontractor (Original Invoice)	20.00
137	Non Destructive Testing (Original Invoice)	20.00
138	Parts and Materials (Original Invoice)	20.00
139	Cost to Replace a Unit	10.00
140	Crane and Rigging (Rented:Original Invoice)	20.00

1212

Contract #460000782

**11 Year One - Lamson Blowers: Multi-Stage Centrifugal Blowers 200 Horsepower to <300 Horsepower Group LM3**

Item #	Description	Unit of Measure	Unit Price
141	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
142	Transport unit to Contractor's shop facility	each	\$800.00
143	Return the repaired unit to City facility	each	\$800.00
144	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
145	Overhaul-Repair as defined in the Specification	each	\$25000.00
146	Standard Labor Rate for Work at City Facility	hour	\$150.00
147	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
148	Overtime Labor Rate for Work at City Facility	hour	\$225.00
149	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
150	Emergency Labor Rate for Work at City Facility	hour	\$225.00
151	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
152	Sandblasting	hour	\$100.00
153	Machining in house	hour	\$100.00
154	Non-Repairable Shop Cost	each	\$1000.00
155	Crane and Rigging (Contractor Owned)	hour	\$50.00
156	Preventive Maintenance Program per group	month	\$900.00
157	Preventive Maintenance Program per group	quarter	\$900.00
158	Preventive Maintenance Program per group	annual	\$900.00
159	Predictive Maintenance Program per group	month	\$900.00
160	Predictive Maintenance Program per group	quarter	\$900.00
161	Predictive Maintenance Program per group	annual	\$900.00

**12 Year One - Lamson Blowers: Multi-Stage Centrifugal Blowers 200 Horsepower to <300 Horsepower Group LM3**

Item #	Description	% Markup
162	Chroming by others (Original Invoice)	20.00
163	Metallizing by others (Original Invoice)	20.00
164	Work by Subcontractor (Original Invoice)	20.00
165	Non Destructive Testing (Original Invoice)	20.00
166	Parts and Materials (Original Invoice)	20.00
167	Cost to Replace a Unit	10.00
168	Crane and Rigging (Rented:Original Invoice)	20.00

**13 Year One - Lamson Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to 500 Horsepower Group LM4**

Item #	Description	Unit of Measure	Unit Price
169	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
170	Transport unit to Contractor's shop facility	each	\$800.00
171	Return the repaired unit to City facility	each	\$800.00
172	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
173	Overhaul-Repair as defined in the Specification	each	\$25000.00
174	Standard Labor Rate for Work at City Facility	hour	\$150.00
175	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
176	Overtime Labor Rate for Work at City Facility	hour	\$225.00
177	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
178	Emergency Labor Rate for Work at City Facility	hour	\$225.00
179	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
180	Sandblasting	hour	\$100.00
181	Machining in house	hour	\$100.00
182	Non-Repairable Shop Cost	each	\$1000.00
183	Crane and Rigging (Contractor Owned)	hour	\$50.00
184	Preventive Maintenance Program per group	month	\$550.00
185	Preventive Maintenance Program per group	quarter	\$550.00
186	Preventive Maintenance Program per group	annual	\$550.00
187	Predictive Maintenance Program per group	month	\$550.00
188	Predictive Maintenance Program per group	quarter	\$550.00
189	Predictive Maintenance Program per group	annual	\$550.00

**14 Year One - Lamson Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to 500 Horsepower Group LM4**

Item #	Description	% Markup
190	Chroming by others (Original Invoice)	20.00
191	Metallizing by others (Original Invoice)	20.00
192	Work by Subcontractor (Original Invoice)	20.00
193	Non Destructive Testing (Original Invoice)	20.00
194	Parts and Materials (Original Invoice)	20.00
195	Cost to Replace a Unit	10.00
196	Crane and Rigging (Rented:Original Invoice)	20.00

**15 Year One - Dresser-Roots/Roots: Rotary Blowers <100 Horsepower Group RR1**

Item #	Description	Unit of Measure	Unit Price
197	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
198	Transport unit to Contractor's shop facility	each	\$400.00
199	Return the repaired unit to City facility	each	\$400.00
200	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
201	Overhaul-Repair as defined in the Specification	each	\$10000.00
202	Standard Labor Rate for Work at City Facility	hour	\$150.00
203	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
204	Overtime Labor Rate for Work at City Facility	hour	\$225.00
205	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
206	Emergency Labor Rate for Work at City Facility	hour	\$225.00
207	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
208	Sandblasting	hour	\$100.00
209	Machining in house	hour	\$100.00
210	Non-Repairable Shop Cost	each	\$500.00
211	Crane and Rigging (Contractor Owned)	hour	\$50.00
212	Preventive Maintenance Program per group	month	\$180.00
213	Preventive Maintenance Program per group	quarter	\$180.00
214	Preventive Maintenance Program per group	annual	\$180.00
215	Predictive Maintenance Program per group	month	\$180.00
216	Predictive Maintenance Program per group	quarter	\$180.00
217	Predictive Maintenance Program per group	annual	\$180.00

**16 Year One - Dresser-Roots/Roots: Rotary Blowers <100 Horsepower Group RR1**

Item #	Description	% Markup
218	Chroming by others (Original Invoice)	20.00
219	Metallizing by others (Original Invoice)	20.00
220	Work by Subcontractor (Original Invoice)	20.00
221	Non Destructive Testing (Original Invoice)	20.00
222	Parts and Materials (Original Invoice)	-15.00
223	Cost to Replace a Unit	15.00
224	Crane and Rigging (Rented:Original Invoice)	20.00

*90 9/12/07*

**17 Year One - Dresser-Roots/Roots: Rotary Blowers 100 Horsepower to <200 Horsepower Group RR2**

Item #	Description	Unit of Measure	Unit Price
225	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
226	Transport unit to Contractor's shop facility	each	\$400.00
227	Return the repaired unit to City facility	each	\$400.00
228	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
229	Overhaul-Repair as defined in the Specification	each	\$10000.00
230	Standard Labor Rate for Work at City Facility	hour	\$150.00
231	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
232	Overtime Labor Rate for Work at City Facility	hour	\$225.00
233	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
234	Emergency Labor Rate for Work at City Facility	hour	\$225.00
235	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
236	Sandblasting	hour	\$100.00
237	Machining in house	hour	\$100.00
238	Non-Repairable Shop Cost	each	\$1000.00
239	Crane and Rigging (Contractor Owned)	hour	\$50.00
240	Preventive Maintenance Program per group	month	\$1700.00
241	Preventive Maintenance Program per group	quarter	\$1700.00
242	Preventive Maintenance Program per group	annual	\$1700.00
243	Predictive Maintenance Program per group	month	\$1700.00
244	Predictive Maintenance Program per group	quarter	\$1700.00
245	Predictive Maintenance Program per group	annual	\$1700.00

**18 Year One - Dresser-Roots/Roots: Rotary Blowers 100 Horsepower to <200 Horsepower Group RR2**

Item #	Description	% Markup
246	Chroming by others (Original Invoice)	20.00
247	Metallizing by others (Original Invoice)	20.00
248	Work by Subcontractor (Original Invoice)	20.00
249	Non Destructive Testing (Original Invoice)	20.00
250	Parts and Materials (Original Invoice)	-15.00
251	Cost to Replace a Unit	15.00
252	Crane and Rigging (Rented:Original Invoice)	20.00

*pc 9/2/07*

**19 Year One - Dresser-Roots/Roots: Rotary Blowers 200 Horsepower to <300 Horsepower Group RR3**

Item #	Description	Unit of Measure	Unit Price
253	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
254	Transport unit to Contractor's shop facility	each	\$600.00

255	Return the repaired unit to City facility	each	\$600.00
256	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
257	Overhaul-Repair as defined in the Specification	each	\$15000.00
258	Standard Labor Rate for Work at City Facility	hour	\$150.00
259	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
260	Overtime Labor Rate for Work at City Facility	hour	\$225.00
261	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
262	Emergency Labor Rate for Work at City Facility	hour	\$225.00
263	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
264	Sandblasting	hour	\$100.00
265	Machining in house	hour	\$100.00
266	Non-Repairable Shop Cost	each	\$1000.00
267	Crane and Rigging (Contractor Owned)	hour	\$50.00
268	Preventive Maintenance Program per group	month	\$730.00
269	Preventive Maintenance Program per group	quarter	\$730.00
270	Preventive Maintenance Program per group	annual	\$730.00
271	Predictive Maintenance Program per group	month	\$730.00
272	Predictive Maintenance Program per group	quarter	\$730.00
273	Predictive Maintenance Program per group	annual	\$730.00

**20 Year One - Dresser-Roots/Roots: Rotary Blowers 200 Horsepower to <300 Horsepower Group RR3**

Item #	Description	% Markup
274	Chroming by others (Original Invoice)	20.00
275	Metallizing by others (Original Invoice)	20.00
276	Work by Subcontractor (Original Invoice)	20.00
277	Non Destructive Testing (Original Invoice)	20.00
278	Parts and Materials (Original Invoice)	-15.00
279	Cost to Replace a Unit	15.00
280	Crane and Rigging (Rented:Original Invoice)	20.00

20  
9/22/07

**21 Year One - Dresser-Roots/Roots: Rotary Blowers 300 Horsepower to 600 Horsepower Group RR4**

Item #	Description	Unit of Measure	Unit Price
281	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
282	Transport unit to Contractor's shop facility	each	\$800.00
283	Return the repaired unit to City facility	each	\$800.00
284	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
285	Overhaul-Repair as defined in the Specification	each	\$20000.00
286	Standard Labor Rate for Work at City Facility	hour	\$150.00

287	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
288	Overtime Labor Rate for Work at City Facility	hour	\$225.00
289	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
290	Emergency Labor Rate for Work at City Facility	hour	\$225.00
291	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
292	Sandblasting	hour	\$100.00
293	Machining in house	hour	\$100.00
294	Non-Repairable Shop Cost	each	\$1000.00
295	Crane and Rigging (Contractor Owned)	hour	\$50.00
296	Preventive Maintenance Program per group	month	\$3220.00
297	Preventive Maintenance Program per group	quarter	\$3220.00
298	Preventive Maintenance Program per group	annual	\$3220.00
299	Predictive Maintenance Program per group	month	\$3220.00
300	Predictive Maintenance Program per group	quarter	\$3220.00
301	Predictive Maintenance Program per group	annual	\$3220.00

**22 Year One - Dresser-Roots/Roots: Rotary Blowers 300 Horsepower to 600 Horsepower Group RR4**

Item #	Description	% Markup
302	Chroming by others (Original Invoice)	20.00
303	Metallizing by others (Original Invoice)	20.00
304	Work by Subcontractor (Original Invoice)	20.00
305	Non Destructive Testing (Original Invoice)	20.00
306	Parts and Materials (Original Invoice)	- 15.00
307	Cost to Replace a Unit	15.00
308	Crane and Rigging (Rented:Original Invoice)	20.00

PC  
9/2/16

**23 Year One - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers <300 Horsepower Group RS1**

Item #	Description	Unit of Measure	Unit Price
309	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
310	Transport unit to Contractor's shop facility	each	\$600.00
311	Return the repaired unit to City facility	each	\$600.00
312	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
313	Overhaul-Repair as defined in the Specification	each	\$20000.00
314	Standard Labor Rate for Work at City Facility	hour	\$150.00
315	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
316	Overtime Labor Rate for Work at City Facility	hour	\$225.00
317	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
318	Emergency Labor Rate for Work at City Facility	hour	\$225.00
319	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00

320	Sandblasting	hour	\$100.00
321	Machining in house	hour	\$100.00
322	Non-Repairable Shop Cost	each	\$1000.00
323	Crane and Rigging (Contractor Owned)	hour	\$50.00
324	Preventive Maintenance Program per group	month	\$550.00
325	Preventive Maintenance Program per group	quarter	\$550.00
326	Preventive Maintenance Program per group	annual	\$550.00
327	Predictive Maintenance Program per group	month	\$550.00
328	Predictive Maintenance Program per group	quarter	\$550.00
329	Predictive Maintenance Program per group	annual	\$550.00

**24 Year One - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers <300 Horsepower Group RS1**

Item #	Description	% Markup
330	Chroming by others (Original Invoice)	20.00
331	Metallizing by others (Original Invoice)	20.00
332	Work by Subcontractor (Original Invoice)	20.00
333	Non Destructive Testing (Original Invoice)	20.00
334	Parts and Materials (Original Invoice)	.00
335	Cost to Replace a Unit	.00
336	Crane and Rigging (Rented:Original Invoice)	20.00

**25 Year One - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group RS2**

Item #	Description	Unit of Measure	Unit Price
337	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
338	Transport unit to Contractor's shop facility	each	\$600.00
339	Return the repaired unit to City facility	each	\$600.00
340	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
341	Overhaul-Repair as defined in the Specification	each	\$20000.00
342	Standard Labor Rate for Work at City Facility	hour	\$150.00
343	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
344	Overtime Labor Rate for Work at City Facility	hour	\$225.00
345	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
346	Emergency Labor Rate for Work at City Facility	hour	\$225.00
347	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
348	Sandblasting	hour	\$100.00
349	Machining in house	hour	\$100.00
350	Non-Repairable Shop Cost	each	\$1000.00
351	Crane and Rigging (Contractor Owned)	hour	\$50.00

352	Preventive Maintenance Program per group	month	\$1100.00
353	Preventive Maintenance Program per group	quarter	\$1100.00
354	Preventive Maintenance Program per group	annual	\$1100.00
355	Predictive Maintenance Program per group	month	\$1100.00
356	Predictive Maintenance Program per group	quarter	\$1100.00
357	Predictive Maintenance Program per group	annual	\$1100.00

**26 Year One - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group RS1**

Item #	Description	% Markup
358	Chroming by others (Original Invoice)	20.00
359	Metallizing by others (Original Invoice)	20.00
360	Work by Subcontractor (Original Invoice)	20.00
361	Non Destructive Testing (Original Invoice)	20.00
362	Parts and Materials (Original Invoice)	.00
363	Cost to Replace a Unit	.00
364	Crane and Rigging (Rented:Original Invoice)	20.00

**27 Year One - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group RS3**

Item #	Description	Unit of Measure	Unit Price
365	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
366	Transport unit to Contractor's shop facility	each	\$800.00
367	Return the repaired unit to City facility	each	\$800.00
368	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
369	Overhaul-Repair as defined in the Specification	each	\$25000.00
370	Standard Labor Rate for Work at City Facility	hour	\$150.00
371	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
372	Overtime Labor Rate for Work at City Facility	hour	\$225.00
373	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
374	Emergency Labor Rate for Work at City Facility	hour	\$225.00
375	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
376	Sandblasting	hour	\$100.00
377	Machining in house	hour	\$100.00
378	Non-Repairable Shop Cost	each	\$1000.00
379	Crane and Rigging (Contractor Owned)	hour	\$50.00
380	Preventive Maintenance Program per group	month	\$1250.00
381	Preventive Maintenance Program per group	quarter	\$1250.00
382	Preventive Maintenance Program per group	annual	\$1250.00
383	Predictive Maintenance Program per group	month	\$1250.00

384	Predictive Maintenance Program per group	quarter	\$1250.00
385	Predictive Maintenance Program per group	annual	\$1250.00

**28 Year One - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group RS3**

Item #	Description	% Markup
386	Chroming by others (Original Invoice)	20.00
387	Metallizing by others (Original Invoice)	20.00
388	Work by Subcontractor (Original Invoice)	20.00
389	Non Destructive Testing (Original Invoice)	20.00
390	Parts and Materials (Original Invoice)	.00
391	Cost to Replace a Unit	.00
392	Crane and Rigging (Rented:Original Invoice)	20.00

**29 Year One - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 1500 Horsepower Group RS4**

Item #	Description	Unit of Measure	Unit Price
393	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1200.00
394	Transport unit to Contractor's shop facility	each	\$800.00
395	Return the repaired unit to City facility	each	\$800.00
396	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2400.00
397	Overhaul-Repair as defined in the Specification	each	\$25000.00
398	Standard Labor Rate for Work at City Facility	hour	\$150.00
399	Standard Labor Rate for Work at Contractor's Facility	hour	\$100.00
400	Overtime Labor Rate for Work at City Facility	hour	\$225.00
401	Overtime Labor Rate for Work at Contractor's Facility	hour	\$150.00
402	Emergency Labor Rate for Work at City Facility	hour	\$225.00
403	Emergency Labor Rate for Work at Contractor's Facility	hour	\$150.00
404	Sandblasting	hour	\$100.00
405	Machining in house	hour	\$100.00
406	Non-Repairable Shop Cost	each	\$1000.00
407	Crane and Rigging (Contractor Owned)	hour	\$50.00
408	Preventive Maintenance Program per group	month	\$360.00
409	Preventive Maintenance Program per group	quarter	\$360.00
410	Preventive Maintenance Program per group	annual	\$360.00
411	Predictive Maintenance Program per group	month	\$360.00
412	Predictive Maintenance Program per group	quarter	\$360.00
413	Predictive Maintenance Program per group	annual	\$360.00

**30 Year One - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 1500 Horsepower Group RS4**

Item #	Description	% Markup
414	Chroming by others (Original Invoice)	20.00
415	Metallizing by others (Original Invoice)	20.00
416	Work by Subcontractor (Original Invoice)	20.00
417	Non Destructive Testing (Original Invoice)	20.00
418	Parts and Materials (Original Invoice)	.00
419	Cost to Replace a Unit	.00
420	Crane and Rigging (Rented:Original Invoice)	20.00

**31 Year Two - Hoffman Blowers: Multi-Stage Centrifugal Blowers <300 horsepower GroupHM1**

Item #	Description	Unit of Measure	Unit Price
421	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
422	Transport unit to Contractor's shop facility	each	\$630.00
423	Return the repaired unit to City facility	each	\$630.00
424	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
425	Overhaul-Repair as defined in the Specification	each	\$21000.00
426	Standard Labor Rate for Work at City Facility	hour	\$158.00
427	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
428	Overtime Labor Rate for Work at City Facility	hour	\$236.00
429	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
430	Emergency Labor Rate for Work at City Facility	hour	\$236.00
431	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
432	Sandblasting	hour	\$105.00
433	Machining in house	hour	\$105.00
434	Non-Repairable Shop Cost	each	\$1000.00
435	Crane and Rigging (Contractor Owned)	hour	\$53.00
436	Preventive Maintenance Program per group	month	\$1590.00
437	Preventive Maintenance Program per group	quarter	\$1590.00

438	Preventive Maintenance Program per group	annual	\$1590.00
439	Predictive Maintenance Program per group	month	\$1590.00
440	Predictive Maintenance Program per group	quarter	\$1590.00
441	Predictive Maintenance Program per group	annual	\$1590.00

32 Year Two - Hoffman Blowers: Multi-Stage Centrifugal Blowers <300 Horsepower GroupHM1

Item #	Description	% Discount/Markup
442	Chroming by others (Original Invoice)	20.00
443	Metallizing by others (Original Invoice)	20.00
444	Work by Subcontractor (Original Invoice)	20.00
445	Non Destructive Testing (Original Invoice)	20.00
446	Parts and Materials (Original Invoice)	20.00
447	Cost to Replace a Unit	10.00
448	Crane and Rigging (Rented:Original Invoice)	20.00

33 Year Two - Hoffman Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group HM2

Item #	Description	Unit of Measure	Unit Price
449	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
450	Transport unit to Contractor's shop facility	each	\$840.00
451	Return the repaired unit to City facility	each	\$840.00
452	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
453	Overhaul-Repair as defined in the Specification	each	\$26250.00
454	Standard Labor Rate for Work at City Facility	hour	\$158.00
455	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00

456	Overtime Labor Rate for Work at City Facility	hour	\$236.00
457	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
458	Emergency Labor Rate for Work at City Facility	hour	\$236.00
459	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
460	Sandblasting	hour	\$105.00
461	Machining in house	hour	\$105.00
462	Non-Repairable Shop Cost	each	\$1000.00
463	Crane and Rigging (Contractor Owned)	hour	\$53.00
464	Preventive Maintenance Program per group	month	\$190.00
465	Preventive Maintenance Program per group	quarter	\$190.00
466	Preventive Maintenance Program per group	annual	\$190.00
467	Predictive Maintenance Program per group	month	\$190.00
468	Predictive Maintenance Program per group	quarter	\$190.00
469	Predictive Maintenance Program per group	annual	\$190.00

**34 Year Two - Hoffman Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group HM2**

Item #	Description	% Markup
470	Chroming by others (Original Invoice)	20.00
471	Metallizing by others (Original Invoice)	20.00
472	Work by Subcontractor (Original Invoice)	20.00
473	Non Destructive Testing (Original Invoice)	20.00
474	Parts and Materials (Original Invoice)	20.00
475	Cost to Replace a Unit	10.00
476	Crane and Rigging (Rented:Original Invoice)	20.00

**35 Year Two - Hoffman Blowers: Multi-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group HM3**

Item #	Description	Unit of Measure	Unit Price
477	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
478	Transport unit to Contractor's shop facility	each	\$840.00

479	Return the repaired unit to City facility	each	\$840.00
480	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
481	Overhaul-Repair as defined in the Specification	each	\$26250.00
482	Standard Labor Rate for Work at City Facility	hour	\$158.00
483	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
484	Overtime Labor Rate for Work at City Facility	hour	\$236.00
485	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
486	Emergency Labor Rate for Work at City Facility	hour	\$236.00
487	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
488	Sandblasting	hour	\$105.00
489	Machining in house	hour	\$105.00
490	Non-Repairable Shop Cost	each	\$1000.00
491	Crane and Rigging (Contractor Owned)	hour	\$53.00
492	Preventive Maintenance Program per group per group	month	\$210.00
493	Preventive Maintenance Program per group	quarter	\$210.00
494	Preventive Maintenance Program per group	annual	\$210.00
495	Predictive Maintenance Program per group	month	\$210.00
496	Predictive Maintenance Program per group	quarter	\$210.00
497	Predictive Maintenance Program per group	annual	\$210.00

**36 Year Two - Hoffman Blowers: Multi-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group HM3**

Item #	Description	% Markup
498	Chroming by others (Original Invoice)	20.00
499	Metallizing by others (Original Invoice)	20.00
500	Work by Subcontractor (Original Invoice)	20.00
501	Non Destructive Testing (Original Invoice)	20.00
502	Parts and Materials (Original Invoice)	20.00
503	Cost to Replace a Unit	10.00
504	Crane and Rigging (Rented:Original Invoice)	20.00

**37 Year Two - Lamson Blowers: Multi-Stage Centrifugal Blowers <100 Horsepower LM1**

Item #	Description	Unit of Measure	Unit Price
505	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
506	Transport unit to Contractor's shop facility	each	\$630.00
507	Return the repaired unit to City facility	each	\$630.00
508	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
509	Overhaul-Repair as defined in the Specification	each	\$21000.00
510	Standard Labor Rate for Work at City Facility	hour	\$158.00

511	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
512	Overtime Labor Rate for Work at City Facility	hour	\$236.00
513	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
514	Emergency Labor Rate for Work at City Facility	hour	\$236.00
515	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
516	Sandblasting	hour	\$105.00
517	Machining in house	hour	\$105.00
518	Non-Repairable Shop Cost	each	\$1000.00
519	Crane and Rigging (Contractor Owned)	hour	\$53.00
520	Preventive Maintenance Program per group	month	\$1730.00
521	Preventive Maintenance Program per group	quarter	\$1730.00
522	Preventive Maintenance Program per group	annual	\$1730.00
523	Predictive Maintenance Program per group	month	\$1730.00
524	Predictive Maintenance Program per group	quarter	\$1730.00
525	Predictive Maintenance Program per group	annual	\$1730.00

**38 Year Two - Lamson Blowers: Multi-Stage Centrifugal Blowers <100 Horsepower LM1**

Item #	Description	% Markup
526	Chroming by others (Original Invoice)	20.00
527	Metallizing by others (Original Invoice)	20.00
528	Work by Subcontractor (Original Invoice)	20.00
529	Non Destructive Testing (Original Invoice)	20.00
530	Parts and Materials (Original Invoice)	20.00
531	Cost to Replace a Unit	10.00
532	Crane and Rigging (Rented:Original Invoice)	20.00

**39 Year Two - Lamson Blowers: Multi-Stage Centrifugal Blowers 100 Horsepower to <200HP Group LM2**

Item #	Description	Unit of Measure	Unit Price
533	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
534	Transport unit to Contractor's shop facility	each	\$630.00
535	Return the repaired unit to City facility	each	\$630.00
536	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
537	Overhaul-Repair as defined in the Specification	each	\$21000.00
538	Standard Labor Rate for Work at City Facility	hour	\$158.00
539	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
540	Overtime Labor Rate for Work at City Facility	hour	\$236.00
541	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
542	Emergency Labor Rate for Work at City Facility	hour	\$236.00

543	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
544	Sandblasting	hour	\$105.00
545	Machining in house	hour	\$105.00
546	Non-Repairable Shop Cost	each	\$1000.00
547	Crane and Rigging (Contractor Owned)	hour	\$53.00
548	Preventive Maintenance Program per group	month	\$1750.00
549	Preventive Maintenance Program per group	quarter	\$1750.00
550	Preventive Maintenance Program per group	annual	\$1750.00
551	Predictive Maintenance Program per group	month	\$1750.00
552	Predictive Maintenance Program per group	quarter	\$1750.00
553	Predictive Maintenance Program per group	annual	\$1750.00

**40 Year Two - Lamson Blowers: Multi-Stage Centrifugal Blowers 100 Horsepower to <200HP Group LM2**

Item #	Description	% Markup
554	Chroming by others (Original Invoice)	20.00
555	Metallizing by others (Original Invoice)	20.00
556	Work by Subcontractor (Original Invoice)	20.00
557	Non Destructive Testing (Original Invoice)	20.00
558	Parts and Materials (Original Invoice)	20.00
559	Cost to Replace a Unit	10.00
560	Crane and Rigging (Rented:Original Invoice)	20.00

**41 Year Two - Lamson Blowers: Multi-Stage Centrifugal Blowers 200 Horsepower to <300 Horsepower Group LM3**

Item #	Description	Unit of Measure	Unit Price
561	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
562	Transport unit to Contractor's shop facility	each	\$840.00
563	Return the repaired unit to City facility	each	\$840.00
564	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
565	Overhaul-Repair as defined in the Specification	each	\$26250.00
566	Standard Labor Rate for Work at City Facility	hour	\$158.00
567	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
568	Overtime Labor Rate for Work at City Facility	hour	\$236.00
569	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
570	Emergency Labor Rate for Work at City Facility	hour	\$236.00
571	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
572	Sandblasting	hour	\$105.00
573	Machining in house	hour	\$105.00
574	Non-Repairable Shop Cost	each	\$1000.00

575	Crane and Rigging (Contractor Owned)	hour	\$53.00
576	Preventive Maintenance Program per group	month	\$960.00
577	Preventive Maintenance Program per group	quarter	\$960.00
578	Preventive Maintenance Program per group	annual	\$960.00
579	Predictive Maintenance Program per group	month	\$960.00
580	Predictive Maintenance Program per group	quarter	\$960.00
581	Predictive Maintenance Program per group	annual	\$960.00

**42 Year Two - Lamson Blowers: Multi-Stage Centrifugal Blowers 200 Horsepower to <300 Horsepower Group LM3**

Item #	Description	% Markup
582	Chroming by others (Original Invoice)	20.00
583	Metallizing by others (Original Invoice)	20.00
584	Work by Subcontractor (Original Invoice)	20.00
585	Non Destructive Testing (Original Invoice)	20.00
586	Parts and Materials (Original Invoice)	20.00
587	Cost to Replace a Unit	10.00
588	Crane and Rigging (Rented:Original Invoice)	20.00

**43 Year Two - Lamson Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to 500 Horsepower Group LM4**

Item #	Description	Unit of Measure	Unit Price
589	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
590	Transport unit to Contractor's shop facility	each	\$840.00
591	Return the repaired unit to City facility	each	\$840.00
592	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
593	Overhaul-Repair as defined in the Specification	each	\$26250.00
594	Standard Labor Rate for Work at City Facility	hour	\$158.00
595	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
596	Overtime Labor Rate for Work at City Facility	hour	\$236.00
597	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
598	Emergency Labor Rate for Work at City Facility	hour	\$236.00
599	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
600	Sandblasting	hour	\$105.00
601	Machining in house	hour	\$105.00
602	Non-Repairable Shop Cost	each	\$1000.00
603	Crane and Rigging (Contractor Owned)	hour	\$53.00
604	Preventive Maintenance Program per group	month	\$570.00
605	Preventive Maintenance Program per group	quarter	\$570.00

606	Preventive Maintenance Program per group	annual	\$570.00
607	Predictive Maintenance Program per group per group	month	\$570.00
608	Predictive Maintenance Program per group	quarter	\$570.00
609	Predictive Maintenance Program per group	annual	\$570.00

**44 Year Two - Lamson Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to 500 Horsepower Group LM4**

Item #	Description	% Markup
610	Chroming by others (Original Invoice)	20.00
611	Metallizing by others (Original Invoice)	20.00
612	Work by Subcontractor (Original Invoice)	20.00
613	Non Destructive Testing (Original Invoice)	20.00
614	Parts and Materials (Original Invoice)	20.00
615	Cost to Replace a Unit	10.00
616	Crane and Rigging (Rented:Original Invoice)	20.00

**45 Year Two - Dresser-Roots/Roots: Rotary Blowers <100 Horsepower Group RRI**

Item #	Description	Unit of Measure	Unit Price
617	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
618	Transport unit to Contractor's shop facility	each	\$420.00
619	Return the repaired unit to City facility	each	\$420.00
620	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
621	Overhaul-Repair as defined in the Specification	each	\$10500.00
622	Standard Labor Rate for Work at City Facility	hour	\$158.00
623	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
624	Overtime Labor Rate for Work at City Facility	hour	\$236.00
625	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
626	Emergency Labor Rate for Work at City Facility	hour	\$236.00
627	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
628	Sandblasting	hour	\$105.00
629	Machining in house	hour	\$105.00
630	Non-Repairable Shop Cost	each	\$500.00
631	Crane and Rigging (Contractor Owned)	hour	\$53.00
632	Preventive Maintenance Program per group	month	\$190.00
633	Preventive Maintenance Program per group	quarter	\$190.00
634	Preventive Maintenance Program per group	annual	\$190.00
635	Predictive Maintenance Program per group	month	\$190.00
636	Predictive Maintenance Program per group	quarter	\$190.00
637	Predictive Maintenance Program per group	annual	\$190.00

**46 Year Two - Dresser-Roots/Roots: Rotary Blowers <100 Horsepower Group RR1**

Item #	Description	% Markup
638	Chroming by others (Original Invoice)	20.00
639	Metallizing by others (Original Invoice)	20.00
640	Work by Subcontractor (Original Invoice)	20.00
641	Non Destructive Testing (Original Invoice)	20.00
642	Parts and Materials (Original Invoice)	-15.00
643	Cost to Replace a Unit	15.00
644	Crane and Rigging (Rented:Original Invoice)	20.00

*Re  
9/12/17*

**47 Year Two - Dresser-Roots/Roots: Rotary Blowers 100 Horsepower to <200 Horsepower Group RR2**

Item #	Description	Unit of Measure	Unit Price
645	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
646	Transport unit to Contractor's shop facility	each	\$420.00
647	Return the repaired unit to City facility	each	\$420.00
648	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
649	Overhaul-Repair as defined in the Specification	each	\$10500.00
650	Standard Labor Rate for Work at City Facility	hour	\$158.00
651	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
652	Overtime Labor Rate for Work at City Facility	hour	\$236.00
653	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
654	Emergency Labor Rate for Work at City Facility	hour	\$236.00
655	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
656	Sandblasting	hour	\$105.00
657	Machining in house	hour	\$105.00
658	Non-Repairable Shop Cost	each	\$1000.00
659	Crane and Rigging (Contractor Owned)	hour	\$53.00
660	Preventive Maintenance Program per group	month	\$1750.00
661	Preventive Maintenance Program per group	quarter	\$1750.00
662	Preventive Maintenance Program per group	annual	\$1750.00
663	Predictive Maintenance Program per group	month	\$1750.00
664	Predictive Maintenance Program per group	quarter	\$1750.00
665	Predictive Maintenance Program per group	annual	\$1750.00

**48 Year Two - Dresser-Roots/Roots: Rotary Blowers 100 Horsepower to <200 Horsepower Group RR2**

Item #	Description	% Markup
666	Chroming by others (Original Invoice)	20.00
667	Metallizing by others (Original Invoice)	20.00

668	Work by Subcontractor (Original Invoice)	20.00
669	Non Destructive Testing (Original Invoice)	20.00
670	Parts and Materials (Original Invoice)	-15.00
671	Cost to Replace a Unit	15.00
672	Crane and Rigging (Rented:Original Invoice)	20.00

**49 Year Two - Dresser-Roots/Roots: Rotary Blowers 200 Horsepower to <300 Horsepower Group RR3**

Item #	Description	Unit of Measure	Unit Price
673	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
674	Transport unit to Contractor's shop facility	each	\$630.00
675	Return the repaired unit to City facility	each	\$630.00
676	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
677	Overhaul-Repair as defined in the Specification	each	\$15750.00
678	Standard Labor Rate for Work at City Facility	hour	\$158.00
679	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
680	Overtime Labor Rate for Work at City Facility	hour	\$236.00
681	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
682	Emergency Labor Rate for Work at City Facility	hour	\$236.00
683	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
684	Sandblasting	hour	\$105.00
685	Machining in house	hour	\$105.00
686	Non-Repairable Shop Cost	each	\$1000.00
687	Crane and Rigging (Contractor Owned)	hour	\$53.00
688	Preventive Maintenance Program per group	month	\$770.00
689	Preventive Maintenance Program per group	quarter	\$770.00
690	Preventive Maintenance Program per group	annual	\$770.00
691	Predictive Maintenance Program per group	month	\$770.00
692	Predictive Maintenance Program per group	quarter	\$770.00
693	Predictive Maintenance Program per group	annual	\$770.00

**50 Year Two - Dresser-Roots/Roots: Rotary Blowers 200 Horsepower to <300 Horsepower Group RR3**

Item #	Description	% Markup
694	Chroming by others (Original Invoice)	20.00
695	Metallizing by others (Original Invoice)	20.00
696	Work by Subcontractor (Original Invoice)	20.00
697	Non Destructive Testing (Original Invoice)	20.00
698	Parts and Materials (Original Invoice)	-15.00
699	Cost to Replace a Unit	15.00
700	Crane and Rigging (Rented:Original Invoice)	20.00

**51 Year Two - Dresser-Roots/Roots: Rotary Blowers 300 Horsepower to 600 Horsepower Group RR4**

Item #	Description	Unit of Measure	Unit Price
701	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
702	Transport unit to Contractor's shop facility	each	\$840.00
703	Return the repaired unit to City facility	each	\$840.00
704	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
705	Overhaul-Repair as defined in the Specification	each	\$21000.00
706	Standard Labor Rate for Work at City Facility	hour	\$158.00
707	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
708	Overtime Labor Rate for Work at City Facility	hour	\$236.00
709	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
710	Emergency Labor Rate for Work at City Facility	hour	\$236.00
711	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
712	Sandblasting	hour	\$105.00
713	Machining in house	hour	\$105.00
714	Non-Repairable Shop Cost	each	\$1000.00
715	Crane and Rigging (Contractor Owned)	hour	\$53.00
716	Preventive Maintenance Program per group	month	\$3350.00
717	Preventive Maintenance Program per group	quarter	\$3350.00
718	Preventive Maintenance Program per group	annual	\$3350.00
719	Predictive Maintenance Program per group	month	\$3350.00
720	Predictive Maintenance Program per group	quarter	\$3350.00
721	Predictive Maintenance Program per group	annual	\$3350.00

**52 Year Two - Dresser-Roots/Roots: Rotary Blowers 300 Horsepower to 600 Horsepower Group RR4**

Item #	Description	% Markup
722	Chroming by others (Original Invoice)	20.00
723	Metallizing by others (Original Invoice)	20.00
724	Work by Subcontractor (Original Invoice)	20.00
725	Non Destructive Testing (Original Invoice)	20.00
726	Parts and Materials (Original Invoice)	-15.00
727	Cost to Replace a Unit	15.00
728	Crane and Rigging (Rented:Original Invoice)	20.00

PC  
9/21/07

**53 Year Two - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers <300 Horsepower Group RS1**

Item #	Description	Unit of Measure	Unit Price
729	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
730	Transport unit to Contractor's shop facility	each	\$630.00
731	Return the repaired unit to City facility	each	\$630.00
732	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
733	Overhaul-Repair as defined in the Specification	each	\$21000.00
734	Standard Labor Rate for Work at City Facility	hour	\$158.00
735	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
736	Overtime Labor Rate for Work at City Facility	hour	\$236.00
737	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00
738	Emergency Labor Rate for Work at City Facility	hour	\$236.00
739	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
740	Sandblasting	hour	\$105.00
741	Machining in house	hour	\$105.00
742	Non-Repairable Shop Cost	each	\$1000.00
743	Crane and Rigging (Contractor Owned)	hour	\$53.00
744	Preventive Maintenance Program per group	month	\$570.00
745	Preventive Maintenance Program per group	quarter	\$570.00
746	Preventive Maintenance Program per group	annual	\$570.00
747	Predictive Maintenance Program per group	month	\$570.00
748	Predictive Maintenance Program per group	quarter	\$570.00
749	Predictive Maintenance Program per group	annual	\$570.00

**54 Year Two - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers <300 Horsepower Group RS1**

Item #	Description	Estimated Total	% Markup
750	Chroming by others (Original Invoice)	\$500.00	20.00
751	Metallizing by others (Original Invoice)	\$500.00	20.00
752	Work by Subcontractor (Original Invoice)	\$3,000.00	20.00
753	Non Destructive Testing (Original Invoice)	\$500.00	20.00
754	Parts and Materials (Original Invoice)	\$12,000.00	.00
755	Cost to Replace a Unit	\$5,000.00	.00
756	Crane and Rigging (Rented:Original Invoice)	\$1,000.00	20.00

**55 Year Two - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group RS2**

Item #	Description	Unit of Measure	Quantity	Unit Price	Line Total
757	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	2	1260.00	2520.00

758	Transport unit to Contractor's shop facility	each	2	630.00	1260.00
759	Return the repaired unit to City facility	each	2	630.00	1260.00
760	Install unit at City facility, connect piping, couple align, start, do the test-run	each	2	2520.00	5040.00
761	Overhaul-Repair as defined in the Specification	each	1	21000.00	21000.00
762	Standard Labor Rate for Work at City Facility	hour	500	158.00	79000.00
763	Standard Labor Rate for Work at Contractor's Facility	hour	500	105.00	52500.00
764	Overtime Labor Rate for Work at City Facility	hour	20	236.00	4720.00
765	Overtime Labor Rate for Work at Contractor's Facility	hour	20	158.00	3160.00
766	Emergency Labor Rate for Work at City Facility	hour	20	236.00	4720.00
767	Emergency Labor Rate for Work at Contractor's Facility	hour	20	158.00	3160.00
768	Sandblasting	hour	50	105.00	5250.00
769	Machining in house	hour	50	105.00	5250.00
770	Non-Repairable Shop Cost	each	1	1000.00	1000.00
771	Crane and Rigging (Contractor Owned)	hour	10	53.00	530.00
772	Preventive Maintenance Program per group	month	12	1150.00	13800.00
773	Preventive Maintenance Program per group	quarter	4	1150.00	4600.00
774	Preventive Maintenance Program per group	annual	1	1150.00	1150.00
775	Predictive Maintenance Program per group	month	12	1150.00	13800.00
776	Predictive Maintenance Program per group	quarter	4	1150.00	4600.00
777	Predictive Maintenance Program per group	annual	1	1150.00	1150.00

**56 Year Two - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group RS2**

Item #	Description	Estimated Total	% Markup
778	Chroming by others (Original Invoice)	\$500.00	20.00
779	Metallizing by others (Original Invoice)	\$500.00	20.00
780	Work by Subcontractor (Original Invoice)	\$5,000.00	20.00
781	Non Destructive Testing (Original Invoice)	\$500.00	20.00
782	Parts and Materials (Original Invoice)	\$15,000.00	.00
783	Cost to Replace a Unit	\$5,000.00	.00
784	Crane and Rigging (Rented:Original Invoice)	\$1,000.00	20.00

**57 Year Two - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group RS3**

Item #	Description	Unit of Measure	Unit Price
785	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	1260.00
786	Transport unit to Contractors shop facility	each	840.00
787	Return the repaired unit to City facility	each	840.00
788	Install unit at City facility, connect piping, couple align, start, do the test-run	each	2520.00
789	Overhaul-Repair as defined in the Specification	each	26250.00

790	Standard Labor Rate for Work at City Facility	hour	158.00
791	Standard Labor Rate for Work at Contractor's Facility	hour	105.00
792	Overtime Labor Rate for Work at City Facility	hour	236.00
793	Overtime Labor Rate for Work at Contractor's Facility	hour	158.00
794	Emergency Labor Rate for Work at City Facility	hour	236.00
795	Emergency Labor Rate for Work at Contractor's Facility	hour	158.00
796	Sandblasting	hour	105.00
797	Machining in house	hour	105.00
798	Non-Repairable Shop Cost	each	1000.00
799	Crane and Rigging (Contractor Owned)	hour	53.00
800	Preventive Maintenance Program per group	month	1350.00
801	Preventive Maintenance Program per group	quarter	1350.00
802	Preventive Maintenance Program per group	annual	1350.00
803	Predictive Maintenance Program per group	month	1350.00
804	Predictive Maintenance Program per group	quarter	1350.00
805	Predictive Maintenance Program per group	annual	1350.00

**58 Year Two - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group RS3**

Item #	Description	% Markup
806	Chroming by others (Original Invoice)	20.00
807	Metallizing by others (Original Invoice)	20.00
808	Work by Subcontractor (Original Invoice)	20.00
809	Non Destructive Testing (Original Invoice)	20.00
810	Parts and Materials (Original Invoice)	.00
811	Cost to Replace a Unit	.00
812	Crane and Rigging (Rented:Original Invoice)	20.00

**59 Year Two - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 1500 Horsepower Group RS4**

Item #	Description	Unit of Measure	Unit Price
813	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1260.00
814	Transport unit to Contractor's shop facility	each	\$840.00
815	Return the repaired unit to City facility	each	\$840.00
816	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2520.00
817	Overhaul-Repair as defined in the Specification	each	\$26250.00
818	Standard Labor Rate for Work at City Facility	hour	\$158.00
819	Standard Labor Rate for Work at Contractor's Facility	hour	\$105.00
820	Overtime Labor Rate for Work at City Facility	hour	\$236.00
821	Overtime Labor Rate for Work at Contractor's Facility	hour	\$158.00

822	Emergency Labor Rate for Work at City Facility	hour	\$236.00
823	Emergency Labor Rate for Work at Contractor's Facility	hour	\$158.00
824	Sandblasting	hour	\$105.00
825	Machining in house	hour	\$105.00
826	Non-Repairable Shop Cost	each	\$1000.00
827	Crane and Rigging (Contractor Owned)	hour	\$53.00
828	Preventive Maintenance Program per group	month	\$380.00
829	Preventive Maintenance Program per group	quarter	\$380.00
830	Preventive Maintenance Program per group	annual	\$380.00
831	Predictive Maintenance Program per group	month	\$380.00
832	Predictive Maintenance Program per group	quarter	\$380.00
833	Predictive Maintenance Program per group	annual	\$380.00

**60 Year Two - Dresser-Roots/Roots: Single-Stage Centrifugal Blowers 1500 Horsepower Group RS4**

Item #	Description	% Markup
834	Chroming by others (Original Invoice)	20.00
835	Metallizing by others (Original Invoice)	20.00
836	Work by Subcontractor (Original Invoice)	20.00
837	Non Destructive Testing (Original Invoice)	20.00
838	Parts and Materials (Original Invoice)	.00
839	Cost to Replace a Unit	.00
840	Crane and Rigging (Rented:Original Invoice)	20.00

**61 Year Three - Hoffman Blowers: Multi-Stage Centrifugal Blowers <300 Horsepower GroupHM1**

Item #	Description	Unit of Measure	Unit Price
841	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1323.00
842	Transport unit to Contractor's shop facility	each	\$662.00
843	Return the repaired unit to City facility	each	\$662.00
844	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2646.00
845	Overhaul-Repair as defined in the Specification	each	\$22050.00
846	Standard Labor Rate for Work at City Facility	hour	\$165.00
847	Standard Labor Rate for Work at Contractor's Facility	hour	\$110.00
848	Overtime Labor Rate for Work at City Facility	hour	\$248.00
849	Overtime Labor Rate for Work at Contractor's Facility	hour	\$165.00
850	Emergency Labor Rate for Work at City Facility	hour	\$248.00
851	Emergency Labor Rate for Work at Contractor's Facility	hour	\$165.00
852	Sandblasting	hour	\$110.00
853	Machining in house	hour	\$110.00
854	Non-Repairable Shop Cost	each	\$1000.00

855	Crane and Rigging (Contractor Owned)	hour	\$55.00
856	Preventive Maintenance Program per group	month	\$1670.00
857	Preventive Maintenance Program per group	quarter	\$1670.00
858	Preventive Maintenance Program per group	annual	\$1670.00
859	Predictive Maintenance Program per group	month	\$1670.00
860	Predictive Maintenance Program per group	quarter	\$1670.00
861	Predictive Maintenance Program per group	annual	\$1670.00

**62 Year Three - Hoffman Blowers: Multi-Stage Centrifugal Blowers <300 Horsepower GroupHM1**

Item #	Description	% Markup
862	Chroming by others (Original Invoice)	20.00
863	Metallizing by others (Original Invoice)	20.00
864	Work by Subcontractor (Original Invoice)	20.00
865	Non Destructive Testing (Original Invoice)	20.00
866	Parts and Materials (Original Invoice)	20.00
867	Cost to Replace a Unit	10.00
868	Crane and Rigging (Rented:Original Invoice)	20.00

**63 Year Three - Hoffman Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group HM2**

Item #	Description	Unit of Measure	Unit Price
869	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1323.00
870	Transport unit to Contractor's shop facility	each	\$882.00
871	Return the repaired unit to City facility	each	\$882.00
872	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2646.00
873	Overhaul-Repair as defined in the Specification	each	\$27563.00
874	Standard Labor Rate for Work at City Facility	hour	\$165.00
875	Standard Labor Rate for Work at Contractor's Facility	hour	\$110.00
876	Overtime Labor Rate for Work at City Facility	hour	\$248.00
877	Overtime Labor Rate for Work at Contractor's Facility	hour	\$165.00
878	Emergency Labor Rate for Work at City Facility	hour	\$248.00
879	Emergency Labor Rate for Work at Contractor's Facility	hour	\$165.00
880	Sandblasting	hour	\$110.00
881	Machining in house	hour	\$110.00
882	Non-Repairable Shop Cost	each	\$1000.00
883	Crane and Rigging (Contractor Owned)	hour	\$55.00
884	Preventive Maintenance Program per group	month	\$200.00
885	Preventive Maintenance Program per group	quarter	\$200.00
886	Preventive Maintenance Program per group	annual	\$200.00

887	Predictive Maintenance Program per group	month	\$200.00
888	Predictive Maintenance Program per group	quarter	\$200.00
889	Predictive Maintenance Program per group	annual	\$200.00

**64 Year Three - Hoffman Blowers: Multi-Stage Centrifugal Blowers 300 Horsepower to <500 Horsepower Group HM2**

Item #	Description	% Markup
890	Chroming by others (Original Invoice)	20.00
891	Metallizing by others (Original Invoice)	20.00
892	Work by Subcontractor (Original Invoice)	20.00
893	Non Destructive Testing (Original Invoice)	20.00
894	Parts and Materials (Original Invoice)	20.00
895	Cost to Replace a Unit	10.00
896	Crane and Rigging (Rented:Original Invoice)	20.00

**65 Year Three - Hoffman Blowers: Multi-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group HM3**

Item #	Description	Unit of Measure	Unit Price
897	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1323.00
898	Transport unit to Contractor's shop facility	each	\$882.00
899	Return the repaired unit to City facility	each	\$882.00
900	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2646.00
901	Overhaul-Repair as defined in the Specification	each	\$27563.00
902	Standard Labor Rate for Work at City Facility	hour	\$165.00
903	Standard Labor Rate for Work at Contractor's Facility	hour	\$110.00
904	Overtime Labor Rate for Work at City Facility	hour	\$248.00
905	Overtime Labor Rate for Work at Contractor's Facility	hour	\$165.00
906	Emergency Labor Rate for Work at City Facility	hour	\$248.00
907	Emergency Labor Rate for Work at Contractor's Facility	hour	\$165.00
908	Sandblasting	hour	\$110.00
909	Machining in house	hour	\$110.00
910	Non-Repairable Shop Cost	each	\$1000.00
911	Crane and Rigging (Contractor Owned)	hour	\$55.00
912	Preventive Maintenance Program per group	month	\$220.00
913	Preventive Maintenance Program per group	quarter	\$220.00
914	Preventive Maintenance Program per group	annual	\$220.00
915	Predictive Maintenance Program per group	month	\$220.00
916	Predictive Maintenance Program per group	quarter	\$220.00
917	Predictive Maintenance Program per group	annual	\$220.00

**66 Year Three - Hoffman Blowers: Multi-Stage Centrifugal Blowers 500 Horsepower to 1000 Horsepower Group HM3**

Item #	Description	% Markup
918	Chroming by others (Original Invoice)	20.00
919	Metallizing by others (Original Invoice)	20.00
920	Work by Subcontractor (Original Invoice)	20.00
921	Non Destructive Testing (Original Invoice)	20.00
922	Parts and Materials (Original Invoice)	20.00
923	Cost to Replace a Unit	10.00
924	Crane and Rigging (Rented:Original Invoice)	20.00

2349

**67 Year three - Lamson Blowers: Multi-Stage Centrifugal Blowers <100 Horsepower LM1**

Item #	Description	Unit of Measure	Unit Price
925	Uncouple unit at City facility disconnect associated piping, prepare unit for removal	each	\$1323.00
926	Transport unit to Contractor's shop facility	each	\$662.00
927	Return the repaired unit to City facility	each	\$662.00
928	Install unit at City facility, connect piping, couple align, start, do the test-run	each	\$2646.00
929	Overhaul-Repair as defined in the Specification	each	\$22050.00
930	Standard Labor Rate for Work at City Facility	hour	\$165.00
931	Standard Labor Rate for Work at Contractor's Facility	hour	\$110.00
932	Overtime Labor Rate for Work at City Facility	hour	\$248.00
933	Overtime Labor Rate for Work at Contractor's Facility	hour	\$165.00
934	Emergency Labor Rate for Work at City Facility	hour	\$248.00
935	Emergency Labor Rate for Work at Contractor's Facility	hour	\$165.00
936	Sandblasting	hour	\$110.00
937	Machining in house	hour	\$110.00
938	Non-Repairable Shop Cost	each	\$1000.00
939	Crane and Rigging (Contractor Owned)	hour	\$55.00
940	Preventive Maintenance Program per group	month	\$1820.00
941	Preventive Maintenance Program per group	quarter	\$1820.00
942	Preventive Maintenance Program per group	annual	\$1820.00
943	Predictive Maintenance Program per group	month	\$1820.00
944	Predictive Maintenance Program per group	quarter	\$1820.00
945	Predictive Maintenance Program per group	annual	\$1820.00

**68 Year Three - Lamson Blowers: Multi-Stage Centrifugal Blowers <100 Horsepower LM1**

Item #	Description	% Markup
946	Chroming by others (Original Invoice)	20.00