

Ghent Unit 1										
List of Items	Total Quantity	Installed	Installed	Installed	Installed	Normal Quantity	Normal	Normal	Normal	Total
	Installed	HP Each	HP Total	kW Each	kW Total	Operating	Operating HP	Operating Time	Operating kW	Operating kW
<b>BOOSTER FANS</b>										
BOOSTER FANS	2.0	7100.0	14,200	6231.3	12,463	2.0	4000.0	24.0	3510.6	7,021
MISC Booster FAN LOADS (lube oil pumps, heater, cooling fans, louvers)	2.0	15.0	30	12.0	24	2.0	15.0	24.0	12.0	24
<b>BOOSTER FAN SUBTOTAL</b>			<b>14,230</b>		<b>12,487</b>					<b>7,045</b>
<b>PULSE JET FABRIC FILTER</b>										
AGCS AIR COMPRESSORS	2.0	300.0	600	263.3	527	1.0	300.0	24.0	263.3	263
PJFF HOPPER HEATERS	12.0	17.2	206	13.8	166	12.0	17.2	24.0	13.8	166
PJFF DAMPERS SEAL AIR FAN	4.0	20.0	80	16.0	64	2.0	20.0	24.0	16.0	32
PJFF PENTHOUSE VENT FAN	10.0	10.0	100	8.0	80	10.0	10.0	24.0	8.0	80
PJFF PENTHOUSE UNIT HEATERS	10.0			10.0	100	10.0		24.0	10.0	100
PJFF HOPPER ENCLOSURE VENT FANS	8.0	1.0	8	0.8	6	8.0	1.0	24.0	0.8	6
PJFF JIB & HOIST	2.0	5.5	11	4.4	9	1.0	5.5	0.0	4.4	0
MISCELLANEOUS LOADS (PLCs, Solenoid valves, Pulse Valve Panels)	1.0			12.0	12	1.0		24.0	12.0	12
<b>PJFF SUBTOTAL</b>			<b>1,005</b>		<b>964</b>					<b>660</b>
<b>POWDER ACTIVATED CARBON (PAC) INJECTION</b>										
PAC BLOWER	3.0	11.5	35	9.2	28	2.0	11.5	24.0	9.2	18
PAC CONVEYING AIR BLOWER (Secondary)	1.0	11.5	12	9.2	9	0.0	11.5	24.0	9.2	0
PAC FEEDER HOPPER	3.0	1.0	3	0.8	2	2.0	1.0	24.0	0.8	2
PAC ROTARY FEEDER VALVE	4.0	0.5	2	0.4	2	2.0	0.5	24.0	0.4	1
PAC SKIRT HVAC UNIT HEATER	2.0			10.0	20	2.0		24.0	10.0	20
PAC SKIRT HVAC VENTILATION FAN	2.0	2.0	4	1.6	3	2.0	2.0	24.0	1.6	3
PAC HOPPER VIBRATORS	2.0	0.2	0	0.2	0	2.0	0.2	8.0	0.2	0.1
<b>PAC INJECTION SUBTOTAL</b>			<b>55</b>		<b>64</b>					<b>44</b>
<b>ENCLOSURE LOADS</b>										
AGCS ELEC BLDG HVAC LOADS	1.0			180.0	180	1.0		24.0	180.0	180
FAN VFD ENCLOSURE LOADS	1.0			180.0	180	1.0		24.0	180.0	180
<b>ENCLOSURE LOADS SUBTOTAL</b>			<b>0</b>		<b>360</b>					<b>360</b>
<b>MISCELLANEOUS LOADS</b>										
LIGHTING, FREEZE PROTECTION, AND RECEPTACLES				400.0	400	1.0		24.0	400.0	400
WELDING RECEPTACLES				100.0	100	1.0		1.0	100.0	4
<b>MISC LOADS SUBTOTAL</b>			<b>0</b>		<b>500</b>					<b>404</b>
<b>TOTAL</b>					<b>14,375</b>					<b>8,513</b>

Notes: 1|Motor Efficiencies were assumed at 93% except for compressors and booster fan drivers including VFDs which were assumed at 85%

Ghent Unit 2										
List of Items	Total Quantity	Installed	Installed	Installed	Installed	Normal Quantity	Normal	Normal	Normal	Total
	Installed	HP Each	HP Total	kW Each	kW Total	Operating	Operating HP	Operating Time	Operating kW	Operating kW
<b>BOOSTER FANS</b>										
BOOSTER FANS	2.0	7100.0	14,200	6231.3	12,463	2.0	4000.0	24.0	3510.6	7,021
MISC ID FAN LOADS (tube oil pumps, heater, cooling fans)	2.0	15.0	30	12.0	24	2.0	15.0	24.0	12.0	24
<b>BOOSTER FAN SUBTOTAL</b>			<b>14,230</b>		<b>12,487</b>					<b>7,045</b>
<b>PULSE JET FABRIC FILTER (PJFF)</b>										
AGCS AIR COMPRESSORS	2.0	300.0	600	263.3	527	1.0	300.0	24.0	263.3	263
PJFF HOPPER HEATERS	12.0	17.2	206	13.8	166	12.0	17.2	24.0	13.8	166
PJFF DAMPERS SEAL AIR FAN	4.0	20.0	80	16.0	64	2.0	20.0	24.0	16.0	32
PJFF PENTHOUSE VENT FAN	10.0	10.0	100	8.0	80	10.0	10.0	24.0	8.0	80
PJFF PENTHOUSE UNIT HEATERS	10.0			10.0	100	10.0		24.0	10.0	100
PJFF HOPPER ENCLOSURE VENT FANS	8.0	1.0	8	0.8	6	8.0	1.0	24.0	0.8	6
PJFF JIB & HOIST	2.0	5.5	11	4.4	9	1.0	5.5	0.0	4.4	0
MISCELLANEOUS LOADS (PLCs, Solenoid valves, Pulse Valve Panels)	1.0			12.0	12	1.0		24.0	12.0	12
<b>PJFF SUBTOTAL</b>			<b>1,005</b>		<b>964</b>					<b>660</b>
<b>SELECTIVE CATALYTIC REDUCTION (SCR)</b>										
RILEY POWER INC SCR SYSTEM	2.0			200.0	400	2.0		24.0	200.0	400
<b>SCR SUBTOTAL</b>			<b>0</b>		<b>400</b>					<b>400</b>
<b>POWDER ACTIVATED CARBON (PAC) INJECTION</b>										
PAC BLOWER	3.0	11.5	35	9.2	28	2.0	11.5	24.0	9.2	18
PAC CONVEYING AIR BLOWER (Secondary)	1.0	11.5	12	9.2	9	0.0	11.5	24.0	9.2	0
PAC FEEDER HOPPER	3.0	1.0	3	0.8	2	2.0	1.0	24.0	0.8	2
PAC ROTARY FEEDER VALVE	4.0	0.5	2	0.4	2	2.0	0.5	24.0	0.4	1
PAC SKIRT HVAC UNIT HEATER	2.0			10.0	20	2.0		24.0	10.0	20
PAC SKIRT HVAC VENTILATION FAN	2.0	2.0	4	1.6	3	2.0	2.0	24.0	1.6	3
PAC HOPPER VIBRATORS	2.0	0.2	0	0.2	0	2.0	0.2	8.0	0.2	0.1
<b>PAC INJECTION SUBTOTAL</b>			<b>55</b>		<b>64</b>					<b>44</b>
<b>SORBENT INJECTION</b>										
SORBENT BLOWER	3.0	20.0	60	16.0	48	2.0	20.0	24.0	16.0	32
SORBENT CONVEYING AIR BLOWER (Secondary)	1.0	20.0	20	16.0	16	0.0	20.0	24.0	16.0	0
SORBENT FEEDER HOPPER	3.0	1.0	3	0.8	2	2.0	1.0	24.0	0.8	2
SORBENT ROTARY FEEDER VALVE	4.0	0.5	2	0.4	2	2.0	0.5	24.0	0.4	1
SORBENT SKIRT HVAC UNIT HEATER	2.0			10.0	20	2.0		24.0	10.0	20
SORBENT SKIRT HVAC VENTILATION FAN	2.0	2.0	4	1.6	3	2.0	2.0	24.0	1.6	3
SORBENT SILO BIN VENT FILTER FAN	2.0	1.0	2	0.8	2	2.0	1.0	24.0	0.8	2
SORBENT HOPPER VIBRATORS	2.0	0.2	0	0.1	0.3	2.0	0.2	8.0	0.1	0.1
<b>SORBENT INJECTION SUBTOTAL</b>			<b>91</b>		<b>93</b>					<b>59</b>
<b>ENCLOSURE LOADS</b>										
AGCS ELEC BLDG HVAC LOADS	1.0			180.0	180	1.0		24.0	180.0	180
FAN VFD ENCLOSURE LOADS	1.0			180.0	180	1.0		24.0	180.0	180
<b>ENCLOSURE LOADS SUBTOTAL</b>			<b>0</b>		<b>360</b>					<b>360</b>
<b>MISCELLANEOUS LOADS</b>										
LIGHTING, FREEZE PROTECTION, AND RECEPTACLES				500.0	500	1.0		24.0	500.0	500
WELDING RECEPTACLES				100.0	100	1.0		1.0	100.0	4
<b>MISC LOADS SUBTOTAL</b>			<b>0</b>		<b>600</b>					<b>504</b>
<b>TOTAL</b>					<b>14,968</b>					<b>9,073</b>

Notes: 1|Motor Efficiencies were assumed at 93% except for compressors and booster fan drivers including VFDs which were assumed at 85%

Ghent Unit 3										
List of Items	Total Quantity	Installed	Installed	Installed	Installed	Normal Quantity	Normal	Normal	Normal	Total
	Installed	HP Each	HP Total	kW Each	kW Total	Operating	Operating HP	Operating Time	Operating kW	Operating kW
<b>ID FANS</b>										
ID FANS	4.0	9500.0	38,000	8337.6	33,351	4.0	5600.0	24.0	4914.8	19,659
MISC ID FAN LOADS (tube oil pumps, heater, cooling fans)	4.0	20.0	80	16.0	64	4.0	20.0	24.0	16.0	64
<b>ID FAN SUBTOTAL</b>			<b>38,080</b>		<b>33,415</b>					<b>19,723</b>
<b>PULSE JET FABRIC FILTER (PJFF)</b>										
AGCS AIR COMPRESSORS	2.0	300.0	600	263.3	527	1.0	300.0	24.0	263.3	263
PJFF HOPPER HEATERS	12.0	17.2	206	13.8	166	12.0	17.2	24.0	13.8	166
PJFF DAMPERS SEAL AIR FAN	4.0	20.0	80	16.0	64	2.0	20.0	24.0	16.0	32
PJFF PENTHOUSE VENT FAN	10.0	10.0	100	8.0	80	10.0	10.0	24.0	8.0	80
PJFF PENTHOUSE UNIT HEATERS	10.0			10.0	100	10.0		24.0	10.0	100
PJFF HOPPER ENCLOSURE VENT FANS	8.0	1.0	8	0.8	6	8.0	1.0	24.0	0.8	6
PJFF JIB & HOIST	2.0	5.5	11	4.4	9	1.0	5.5	0.0	4.4	0
MISCELLANEOUS LOADS (PLCs, Solenoid valves, Pulse Valve Panels)	1.0			12.0	12	1.0		24.0	12.0	12
PRESSURE TRANSFER BLOWERS	2.0	800	1,600	641.7	1,283	2.0	800.0	8.0	641.7	428
<b>PJFF SUBTOTAL</b>			<b>1,005</b>		<b>2,247</b>					<b>1,087</b>
<b>POWDER ACTIVATED CARBON (PAC) INJECTION</b>										
PAC BLOWER	3.0	11.5	35	9.2	28	2.0	11.5	24.0	9.2	18
PAC CONVEYING AIR BLOWER (Secondary)	1.0	11.5	12	9.2	9	0.0	11.5	24.0	9.2	0
PAC FEEDER HOPPER	3.0	1.0	3	0.8	2	2.0	1.0	24.0	0.8	2
PAC ROTARY FEEDER VALVE	4.0	0.5	2	0.4	2	2.0	0.5	24.0	0.4	1
PAC SKIRT HVAC UNIT HEATER	2.0			10.0	20	2.0		24.0	10.0	20
PAC SKIRT HVAC VENTILATION FAN	2.0	2.0	4	1.6	3	2.0	2.0	24.0	1.6	3
PAC HOPPER VIBRATORS	2.0	0.2	0	0.2	0	2.0	0.2	8.0	0.2	0.1
<b>PAC INJECTION SUBTOTAL</b>			<b>55</b>		<b>64</b>					<b>44</b>
<b>ENCLOSURE LOADS</b>										
AGCS ELEC BLDG HVAC LOADS	1.0			180.0	180	1.0		24.0	180.0	180
FAN VFD ENCLOSURE LOADS	1.0			180.0	180	1.0		24.0	180.0	180
ASH HANDLING TRANSFER STATION AREA HVAC LOADS	1.0			180.0	180	1.0		24.0	180.0	180
<b>ENCLOSURE LOADS SUBTOTAL</b>			<b>0</b>		<b>540</b>					<b>540</b>
<b>MISCELLANEOUS LOADS</b>										
LIGHTING, FREEZE PROTECTION, AND RECEPTACLES				400.0	400	1.0		24.0	400.0	400
WELDING RECEPTACLES				100.0	100	1.0		1.0	100.0	4
<b>MISC LOADS SUBTOTAL</b>			<b>0</b>		<b>500</b>					<b>404</b>
<b>TOTAL</b>					<b>36,766</b>					<b>21,799</b>

Notes: 1 | Motor Efficiencies were assumed at 93% except for compressors and booster fan drivers including VFDs which were assumed at 85%

Ghent Unit 4											
List of Items	Total Quantity	Installed	Installed	Installed	Installed	Normal Quantity	Normal	Normal	Normal	Total	
	Installed	HP Each	HP Total	kW Each	kW Total	Operating	Operating HP	Operating Time	Operating kW	Operating kW	
<b>ID FANS</b>											
ID FANS	4.0	9500.0	38,000	8337.6	33,351	4.0	5600.0	24.0		4914.8	19,659
MISC ID FAN LOADS (tube oil pumps, heater, cooling fans)	4.0	20.0	80	16.0	64	4.0	20.0	24.0		16.0	64
<b>ID FAN SUBTOTAL</b>			<b>38,080</b>		<b>33,415</b>						<b>19,723</b>
<b>PULSE JET FABRIC FILTER (PJFF)</b>											
AGCS AIR COMPRESSORS	2.0	300.0	600	263.3	527	1.0	300.0	24.0		263.3	263
PJFF HOPPER HEATERS	12.0	17.2	206	13.8	166	12.0	17.2	24.0		13.8	166
PJFF DAMPERS SEAL AIR FAN	4.0	20.0	80	16.0	64	2.0	20.0	24.0		16.0	32
PJFF PENTHOUSE VENT FAN	10.0	10.0	100	8.0	80	10.0	10.0	24.0		8.0	80
PJFF PENTHOUSE UNIT HEATERS	10.0			10.0	100	10.0		24.0		10.0	100
PJFF HOPPER ENCLOSURE VENT FANS	8.0	1.0	8	0.8	6	8.0	1.0	24.0		0.8	6
PJFF JIB & HOIST	2.0	5.5	11	4.4	9	1.0	5.5	0.0		4.4	0
MISCELLANEOUS LOADS (PLCs, Solenoid valves, Pulse Valve Panels)	1.0			12.0	12	1.0		24.0		12.0	12
<b>PJFF SUBTOTAL</b>			<b>1,005</b>		<b>964</b>						<b>660</b>
<b>POWDER ACTIVATED CARBON (PAC) INJECTION</b>											
PAC BLOWER	3.0	11.5	35	9.2	28	2.0	11.5	24.0		9.2	18
PAC CONVEYING AIR BLOWER (Secondary)	1.0	11.5	12	9.2	9	0.0	11.5	24.0		9.2	0
PAC FEEDER HOPPER	3.0	1.0	3	0.8	2	2.0	1.0	24.0		0.8	2
PAC ROTARY FEEDER VALVE	4.0	0.5	2	0.4	2	2.0	0.5	24.0		0.4	1
PAC SKIRT HVAC UNIT HEATER	2.0			10.0	20	2.0		24.0		10.0	20
PAC SKIRT HVAC VENTILATION FAN	2.0	2.0	4	1.6	3	2.0	2.0	24.0		1.6	3
PAC HOPPER VIBRATORS	2.0	0.2	0	0.2	0	2.0	0.2	8.0		0.2	0.1
<b>PAC INJECTION SUBTOTAL</b>			<b>55</b>		<b>64</b>						<b>44</b>
<b>ENCLOSURE LOADS</b>											
AGCS ELEC BLDG HVAC LOADS	1.0			180.0	180	1.0		24.0		180.0	180
FAN VFD ENCLOSURE LOADS	1.0			180.0	180	1.0		24.0		180.0	180
<b>ENCLOSURE LOADS SUBTOTAL</b>			<b>0</b>		<b>360</b>						<b>360</b>
<b>MISCELLANEOUS LOADS</b>											
LIGHTING, FREEZE PROTECTION, AND RECEPTACLES	1.0			400.0	400	1.0		24.0		400.0	400
WELDING RECEPTACLES	1.0			100.0	100	1.0		1.0		100.0	4
<b>MISC LOADS SUBTOTAL</b>			<b>0</b>		<b>500</b>						<b>404</b>
<b>TOTAL</b>					<b>35,303</b>						<b>21,191</b>

Notes: 1 | Motor Efficiencies were assumed at 93% except for compressors and booster fan drivers including VFDs which were assumed at 85%