Kinder Morgan RACT Analysis	Marine Vessel Loading Marine Incinerator Costing
Direct Cost	
Purchased Equipment	\$0.00 Vendor Quote Attached
Instrumentation -	
Sales Tax	\$0.00
Freight	\$0.00
Purchased Equipment Cost	\$0.00
Bisset Isstellette a Good	
Direct Installation Cost	
Foundations & supports	#0.00
Llandina O avestica	\$0.00
Handling & erection Electrical	\$0.00
	\$0.00
Piping Insulation for ductwork	\$0.00
	\$0.00
Painting Direct installatoin costs	0
Direct installatoin costs	\$0.00
Site Preparation	\$0.00
Total Direct Cost	\$0.00
Indirect Cost	
Engineering	\$0.00
Construction and field expense	\$0.00
Contractor fees	\$0.00
Start-up	\$0.00
Performance test	\$0.00
Total Indirect Cost	\$0.00

Total Capital Investment

12/21/2022

\$0.00

Marine Vessel Loading
Marine Incinerator Costing

Kinder Morgan RACT Analysis 12/21/2022

An	nua	I Co	sts

Hours of operation 8,760

Direct Annual	Costs
D O O C 7 C C C C	

Total		\$ 1,630,205.68
Electrcity	0.162/kwh	\$ 7,759.46
Natural Gas	1.16 per therm	\$ 1,597,425.47
Materials 100% of mainter	nance labor	\$ 6,843.75
Labor 0.5 hr/shift \$25/hr		\$ 6,843.75
Maintenance		
Operating Materials -		
Supervisor 15% of operator	or	\$ 1,478.25
Operating Labor	0.5 hrs/shift @ \$18/hr	\$ 9,855.00

Indirect Annual Cost

Total IAC	\$15,012.45
Capital recovery (7% over 10 years)	\$0.00
Insurance 1% TCI - 4,830 122,700	\$0.00
Property Taxes 1% TCI - 4,830 8,900	\$0.00
Administrative Charges 2% TCI - 9,650 17,800	\$0.00
maintenance labor & maintenance materials	\$ 15,012.45
Overhead 60% of sum of operating supervisor, &	

\$1,645,218.13 **Total Annual Cost Precontrol Emissions** 29 **Controlled Emissions** 24.2 **Cost Effectiveness** \$67,984.22 Kinder Morgan RACT Analysis

All Tank Truck and Rail Car Loading Positions Incinerator Cost Limited @ 129 tons

12/21/2022

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Total Capital Investment

Direct Cost		
Purchased Equipment	\$1,706,542.07	Vendor Quote Attached
Instrumentation -		
Sales Tax	\$102,392.52	
Freight	\$85,327.10	
Purchased Equipment Cost	\$1,894,261.69	
-		
Direct Installation Cost		
Foundations & supports		
	\$151,540.94	
Handling & erection	\$265,196.64	
Electrical	\$75,770.47	
Piping	\$94,713.08	
Insulation for ductwork	\$18,942.62	
Painting	0	
Direct installatoin costs	\$606,163.75	
Site Preparation	\$18,942.62	
Total Direct Cost	\$2,519,368.06	
Indirect Cost		
	6400 400 47	
Engineering	\$189,426.17	
Construction and field expense	\$94,713.08	
Contractor fees	\$189,426.17	
Start-up	\$37,885.23	
Performance test	\$0.00	
Total Indirect Cost	\$511,450.65	

\$3,030,818.71

Kinder Morgan RACT Analysis

All Tank Truck and Rail Car Loading Positions Incinerator Cost Limited @ 129 tons

12/21/2022

Annual Costs

Hours of operation 8,760

Direct Annual Cost	ts
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otal		\$ 1 331 228 83
Electrcity	0.162/kwh	\$ 7,759.46
Natural Gas	1.16 per therm	\$ 1,298,448.62
Materials 100% of maintena	nce labor	\$ 6,843.75
Labor 0.5 hr/shift \$25/hr		\$ 6,843.75
Maintenance		
Operating Materials -		
Supervisor 15% of operator		\$ 1,478.25
Operating Labor	0.5 hrs/shift @ \$18/hr	\$ 9,855.00
Operating Labor	0.5 hrs/shift @ \$18/hr	\$ 9,8

Indirect Annual Cost

Total IAC	\$567,833.78
Capital recovery (7% over 10 years)	\$431,588.58
Insurance 1% TCI - 4,830 122,700	\$30,308.19
Property Taxes 1% TCI - 4,830 8,900	\$30,308.19
Administrative Charges 2% TCI - 9,650 17,800	\$60,616.37
maintenance labor & maintenance materials	\$ 15,012.45
Overhead 60% of sum of operating supervisor, &	

Total Annual Cost \$1,899,062.61
Precontrol Emissions 129
Controlled Emissions 107.5

Cost Effectiveness \$17,665.70

Individual Tanl	Truck or Rail Car Loagin Poistion
	Limited @ 129 tpy

12/21/2022

Kinder Morgan RACT Analysis	Individual Tank Truck or Rail Car Loagin Poistio Limited @ 129 tpy		
Direct Cost			
Purchased Equipment	\$181,203.85 Vendor Quote Attached		
Instrumentation	-		
Sales Tax	\$10,872.23		
_ Freight	\$9,060.19		
Purchased Equipment Cost	\$201,136.27		
Direct Installation Cost			
Foundations & supports			
· carrations of cappoints	\$16,090.90		
Handling & erection	\$28,159.08		
Electrical	\$8,045.45		
Piping	\$4,022.73		
Insulation for ductwork	\$2,011.36		
Painting	0		
Direct installatoin costs	\$58,329.52		
Site Preparation	\$2,011.36		
Total Direct Cost	\$261,477.15		
Indirect Cost			
Engineering	\$20,113.63		
Construction and field expense	•		
Contractor fees	\$20,113.63		
Start-up	\$4,022.73		
Performance test	\$0.00		
Total Indirect Cost	\$54,306.80		

\$315,783.95

Total Capital Investment

Kinder Morgan Individual Tank Truck or Rail Car Loagin Poistion RACT Analysis Limited @ 129 tpy

12/21/2022

Annual Costs

Hours of operation 8,760

Direct Annual Costs

Total		\$ 286,842.16
Electrcity	0.162/kwh	\$ 7,759.46
Natural Gas	1.16 per therm	\$ 254,061.95
Materials 100% of maintenance labor		\$ 6,843.75
Labor 0.5 hr/shift \$25/hr		\$ 6,843.75
Maintenance		
Operating Materials -		
Supervisor 15% of operator		\$ 1,478.25
Operating Labor	0.5 hrs/shift @ \$18/hr	\$ 9,855.00

Indirect Annual Cost

Total IAC	\$72,611.44
Capital recovery (7% over 10 years)	\$44,967.63
Insurance 1% TCI - 4,830 122,700	\$3,157.84
Property Taxes 1% TCI - 4,830 8,900	\$3,157.84
Administrative Charges 2% TCI - 9,650 17,800	\$6,315.68
maintenance labor & maintenance materials	\$ 15,012.45
Overhead 60% of sum of operating supervisor, &	

Total Annual Cost\$359,453.60Precontrol Emissions9Controlled Emissions8.1Cost Effectiveness\$44,376.99

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