

Guaremas II

06 Oct 2010

Conversion to Multiple Currencies Errors

Liquid Fuel Treatment	=	\$28,875 too low
Water Treatment	=	\$253,750 too low
Gas Compressors	=	\$856,250 too low
		<hr/>
Total	=	\$1,138,875 too low

The Guaremas II final BsF pricing included
BsF 5,406,645 above the estimated BsF.
This equals \$675,831 @ an 8.0 tR.

$$\begin{array}{r} \$1,138,875 \\ - 675,831 \\ \hline \$463,044 \end{array}$$

Presumably, the final BsF pricing was expected to be \$675,831 above the detailed estimate but is actually \$463,044 less than the detailed estimate.

Change Order Request

Liquid Fuel Treatment, Storage, Off Loading

Presented To:

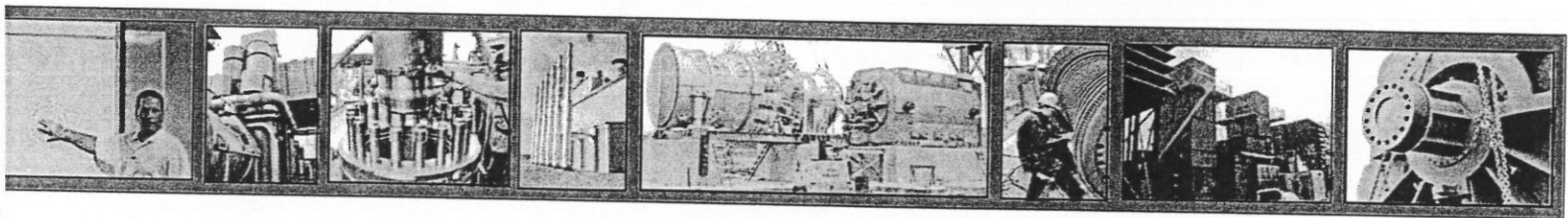
Venezuela

Guarenas Power Plant

By

DERWICK

DERWICK ASSOCIATES CORP.



Proposal No. T-1009-D

June 11, 2010

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Guarenas

RECAP OF COST ESTIMATE
(1,000'S)

Project Name: Guarenas Add'l DFO Fuel Treatment
Customer: Derwick
Location: Guatire, Venn
Bid Due Date: 12-Jun-10

Date: 11-Jun-10
Quote No: T 1009 - D
Est By: WTS

I. Balance of Plant

				US Portion	Bs Portion 8.0
<u>100 Civil Structural</u>					
101 Site Preparation		-	calc		
102 Excavation - Fill	Mhrs	25	calc		
103 Concrete Foundations	1,249	212	calc	✓ 4,947 = 5	✓
104 Concrete Pilings		-	calc	✓ 42,292 = 42	✓
105 Paving Asphalt - Concrete		175	calc	✓ 34,920 = 35	✓
106 Gravel - Sand		59	calc	✓ 11,737 = 12	✓
107 Structural Steel		15	calc	✓ 3,007 = 3	✓
108 Fencing		-	calc		
109 Architectural Treatment		-	calc		
110 Evaporation Pond		-	calc		
		486		486	✓ 97
					3,113 ✓
<u>200 Buildings</u>					
		206	calc	206	✓ 206
<u>300 Mechanical</u>					
	Mhrs				
310 Major Mechanical Equipment		939	calc	✓ 939	
320 Pipe, Valves & Fitting labor	7,200		calc		
330 Mechanical Subcontractor	2,820	164	calc	✓ 33	1,051 ✓
340 Pipe, Valves & Fitting Material		225	calc	✓ 225	
		1,328		1,328	
<u>400 Electrical</u>					
410 Major Electrical Equipment		82	calc	✓ 82	
420 Substation Equipment		-	calc		
430 Plant Electrical Subcontractor	1,060	62	calc	✓ 12	395 ✓
440 Substation Subcontractor	-	-	calc		
450 Conduit, Cable & Wire Material		70	calc	✓ 70	
460 Conduit, Cable & Wire Labor	2,400	140	calc	✓ 28	894 ✓
		353		353	
<u>500 Instrumentation</u>					
510 CEMS		-	calc		
520 Plant Instrumentation		20	calc		
530 Instrumentation Subcontractor	400	23	calc		
		43		43	✓ 43
<u>600 DCS System / Communications</u>					
610 Hardware / Software		-	calc		
620 Telephone System		-	calc		
630 Public Address System		-	calc		
640 TV / Security		-	calc		
		-			
<u>700 Plant Erection</u>					
700 Plant Erection	800	47	calc		
750 Plant Dismantling		-	plgd/1000		
755 Plant Dismantling Labor		-	plgd/1000		
Total El/Mech Mhrs	14,680	47		47	✓ 9
					298 ✓

RECAP OF COST ESTIMATE
(1,000'S)

800 Equipment Rental	18	calc	18	
900 Painting	15	calc	15	
1000 Transportation				
1001 US Inland Transportation	9	calc	9	✓
1002 Ocean/Air Freight	100	plgd /1000	100	✓
1003 Destination Inland Freight	75	plgd /1000		
1004 Customs / Duties (plant equip & mat'l)	-	plgd /1000		
1005 Unload & Receive Mat'l at Site	-	plgd /1000		
1006 Receive, Inspect, Inventory	30	plgd /1000		
1007 Storage	-	plgd /1000		
1008 Local Registrations Fees, License, Etc.	-	plgd /1000		
1009 Transport of Damaged Goods for Repair	-	plgd /1000		
	214		214	
1100 Site Costs	-	calc	-	
1200 Engineering				
1201 EPC Eng Labor	75	calc		
1202 Local Eng	-	calc		
	75		75	✓
1300 Project Management				
1310 Project & Construction	-	calc		
1320 Inspectors	-	calc		
	-		-	
1400 Travel & Perdiem				
1410 Project Meal Expense	-	calc		
	-	calc		
	-		-	
1500 Technical Reps				
1501 GTG Tech Rep	-	2,500	-	plgd /1000
1502 Fire Water	-	2,000	-	plgd /1000
1503 Gas Compressor	-	2,000	-	plgd /1000
1504 Chiller	-	2,000	-	plgd /1000
1505 DFO Treatment	15	2,200	33	plgd /1000
1506 Commission / S/U / Trng	-	2,000	-	plgd /1000
1507 Controls Rep	-	3,000	-	plgd /1000
1508 Evap Cooler	-	2,000	-	plgd /1000
1509 SCR	-	2,000	-	plgd /1000
			33	✓

* should be x 8.0

* 33,000 BSF should be 264,000 BSF

$$\frac{(264^k - 33^k)}{8} = \$28,875 \text{ too low}$$

RECAP OF COST ESTIMATE
(1,000'S)

<u>1600 Project Tests</u>							
1601 Soil Boring / Compaction	-	plgd /1000					
1602 Concrete	-	plgd /1000					
1603 X Ray	-	plgd /1000					
1604 Plant Performance and Reliability	-	plgd /1000					
1605 Emission Tests	-	plgd /1000					
1606 Protective Relays	-	plgd /1000					
1607 Acoustics / Noise Test	-	plgd /1000					
	-						
<u>1700 Legal</u>				-	plgd /1000	-	
<u>1800 Insurance / Securities</u>							
1810 Bonds	-	plgd /1000					
1820 Builders All Risk	-	plgd /1000					
1830 Marine / Cargo	-	plgd /1000					
1840 Professional	-	plgd /1000					
	-						
<u>1900 Taxes</u>				-	calc	-	
<u>2000 Commissions</u>				-	plgd /1000	-	
<u>2100 Project Contingency / Risk</u>							
2110 Project Contingency		200	plgd / 1000				
2120 GT Performance		-	plgd / 1000				
2130 Schedule LD		-	plgd / 1000				
2140 Material Escalation	5%	1,336	67	calc			
2150 Labor Contingency	5%	435	22	calc			
			289			289	✓ 289
BOP Cost						3,107	2,251
% Markup				40%		1,243	1,243
BOP Sales Price						4,350	3,493
Local Municipal & Social				7.5%			497
IVA				16%			1,060
Total BOP Sales Price Incl. Taxes							3,493
							8,179

Note The price does include the following:

- 1.0 Add'l Centrifuge 150 M GPD
- 2.0 Add'l Raw and Treated DFO Storage Tanks
- 3.0 Three Bay Unloading Truck Station
- 4.0 Add'l DFO Treatment Shed Extension

The price does not include the following:

- 1.0 Duties, Permits, etc.

Change Order Request

Water Treatment Expansion

Presented To:

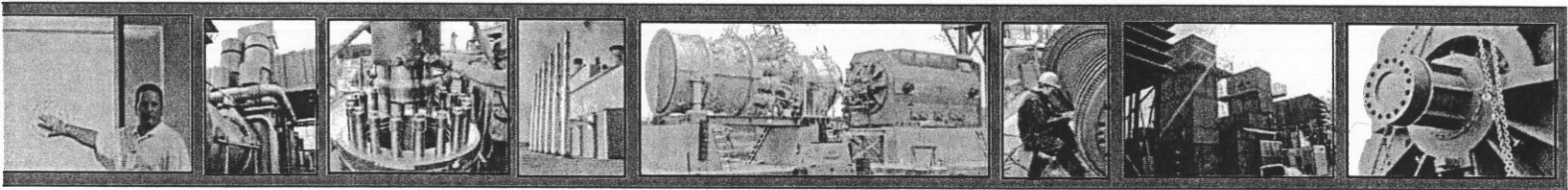
Venezuela

Guarenas Power Plant

By

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DERWICK ASSOCIATES CORP.



Proposal No. T-1009-C

June 11, 2010

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Guarenas

RECAP OF COST ESTIMATE
(1,000'S)

Project Name: Guarenas Add'l H2O for LM 6000
Customer: Derwick
Location: Guatire, Venn
Bid Due Date: 12-Jun-10

Date: 11-Jun-10
Quote No: T 1009 - C
Est By: WTS

I. Balance of Plant

				US Portion	Bs Portion
<u>100 Civil Structural</u>					8.0
101 Site Preparation		-	calc		
102 Excavation - Fill	Mhrs	-	calc		
103 Concrete Foundations	164	28	calc		
104 Concrete Pilings		-	calc		
105 Paving Asphalt - Concrete		-	calc		
106 Gravel - Sand		-	calc		
107 Structural Steel		5	calc		
108 Fencing		-	calc		
109 Architectural Treatment		-	calc		
110 Evaporation Pond		-	calc		
		33		33	264 ✓
<u>200 Buildings</u>		33	calc	33 ✓	
<u>300 Mechanical</u>	Mhrs				
310 Major Mechanical Equipment		445	calc	✓ 445	
320 Pipe, Valves & Fitting labor	2,400	140	calc	✓ 28	894 ✓
330 Mechanical Subcontractor	2,140	125	calc	✓ 25	797 ✓
340 Pipe, Valves & Fitting Material		50	calc	✓ 50	
		759		759	
<u>400 Electrical</u>					
410 Major Electrical Equipment		35	calc	✓ 35	
420 Substation Equipment		-	calc		
430 Plant Electrical Subcontractor	680	40	calc	✓ 8	253 ✓
440 Substation Subcontractor	-	-	calc		
450 Conduit, Cable & Wire Material		75	calc	✓ 75	
460 Conduit, Cable & Wire Labor	2,000	116	calc	✓ 23	745 ✓
		266		266	
<u>500 Instrumentation</u>					
510 CEMS		-	calc		
520 Plant Instrumentation		15	calc		
530 Instrumentation Subcontractor	320	19	calc		
		34		34 ✓	
<u>600 DCS System / Communications</u>					
610 Hardware / Software		-	calc		
620 Telephone System		-	calc		
630 Public Address System		-	calc		
640 TV / Security		-	calc		
		-		-	
<u>700 Plant Erection</u>					
700 Plant Erection	800	47	calc		
750 Plant Dismantling		-	plgd/1000		
755 Plant Dismantling Labor		-	plgd/1000		
		47		47	373 ✓
Total EI/Mech Mhrs	8,340	47		47	

RECAP OF COST ESTIMATE
(1,000'S)

<u>800 Equipment Rental</u>	<u>35</u>	calc	<u>35</u>	
<u>900 Painting</u>	<u>15</u>	calc	<u>15</u>	
<u>1000 Transportation</u>				
1001 US Inland Transportation	47	calc		
1002 Ocean/Air Freight	100	plgd /1000		
1003 Destination Inland Freight	50	plgd /1000		
1004 Customs / Duties (plant equip & mat'l)	-	plgd /1000		
1005 Unload & Receive Mat'l at Site	25	plgd /1000		
1006 Receive, Inspect, Inventory	-	plgd /1000		
1007 Storage	-	plgd /1000		
1008 Local Registrations Fees, License, Etc.	-	plgd /1000		
1009 Transport of Damaged Goods for Repair	-	plgd /1000		
	<u>222</u>		<u>222</u>	
<u>1100 Site Costs</u>	<u>-</u>	calc	<u>-</u>	
<u>1200 Engineering</u>				
1201 EPC Eng Labor	50	calc		
1202 Local Eng	-	calc		
	<u>50</u>		<u>50</u>	
<u>1300 Project Management</u>				
1310 Project & Construction	50	calc		
1320 Inspectors	-	calc		
	<u>50</u>		<u>50</u>	
<u>1400 Travel & Perdiem</u>	<u>30</u>	calc		
1410 Project Meal Expense	-	calc		
	<u>30</u>		<u>30</u>	
<u>1500 Technical Reps</u>				
		\$/day		
1501 GTG Tech Rep	2,500	-	plgd /1000	
1502 Fire Water	2,000	-	plgd /1000	
1503 Gas Compressor	-	2,000	-	plgd /1000
1504 Chiller	-	2,000	-	plgd /1000
1505 Water Treatment	15	2,000	30	plgd /1000
1506 Commission / S/U / Trng	-	2,000	-	plgd /1000
1507 Controls Rep	-	3,000	-	plgd /1000
1508 Evap Cooler	-	2,000	-	plgd /1000
1509 SCR	-	2,000	-	plgd /1000
		<u>30</u>		<u>30</u>

✓	280
✓	120
✓ 47	
✓ 100	
✓	400
✓	200
* should be + 8.0	
✓	50
✓	50
✓	30
✓	30

* See next page

RECAP OF COST ESTIMATE
(1,000'S)

<u>1600 Project Tests</u>							
1601 Soil Boring / Compaction			plgd /1000				
1602 Concrete			plgd /1000				
1603 X Ray			plgd /1000				
1604 Plant Performance and Reliability			plgd /1000				
1605 Emission Tests		-	plgd /1000				
1606 Protective Relays			plgd /1000				
1607 Acoustics / Noise Test		-	plgd /1000				
				-			
<u>1700 Legal</u>				plgd /1000	-		
<u>1800 Insurance / Securities</u>							
1810 Bonds			plgd /1000				
1820 Builders All Risk			plgd /1000				
1830 Marine / Cargo			plgd /1000				
1840 Professional			plgd /1000				
				-			
<u>1900 Taxes</u>				calc	-		
<u>2000 Commissions</u>				- plgd /1000	-		
<u>2100 Project Contingency / Risk</u>							
2110 Project Contingency		✓ 75	plgd / 1000				
2120 GT Performance		-	plgd / 1000				
2130 Schedule LD		-	plgd / 1000				
2140 Material Escalation	5%	620	✓ 31 calc				
2150 Labor Contingency	5%	485	✓ 24 calc				
				130	130		130
BOP Cost					1,733	902	4,616
% Markup				40%	693	693	
BOP Sales Price for Add'l Water Treatment					2,427	1,596	4,616
Local Municipal & Social				7.5%			346
IVA				16%			739
Total BOP Sales Price Incl. Taxes						1,596	5,701

Note The price does include the following:

- 1.0 Water Injection for Nox and Sprint
- 2.0 Water Treatment with add'l RO and EDI for 70M GPD
- 3.0 Additional Raw and Treated Water Tankage
- 4.0 Additional Space in the Water Treatment Building

The price does not include the following:

- 1.0 Import Duties

* 290,000 BsF should be 2,320,000 BsF

$$\frac{(2320^k - 290^k)}{8} = \$253,750 \text{ too low}$$

Change Order Request

5 ea. Fuel Gas Compressors

Presented To:

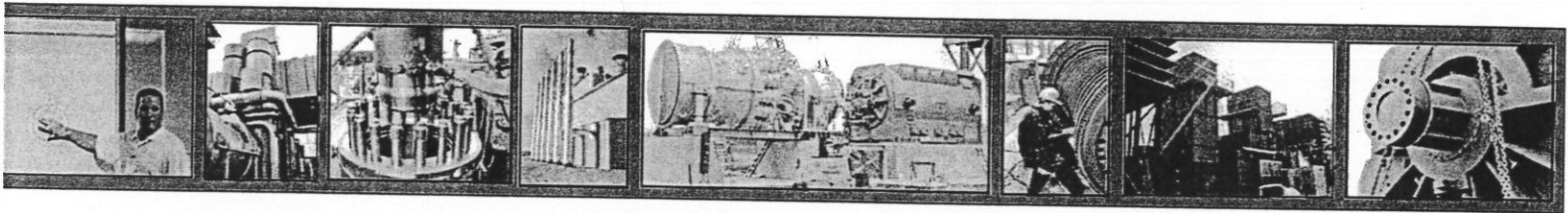
Venezuela

Guarenas Power Plant

By

DERWICK

DERWICK ASSOCIATES CORP.



Proposal No. T-1009-B

June 11, 2010

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RECAP OF COST ESTIMATE
(1,000'S)

Project Name: Guarenas Gas Compression
Customer: Derwick
Location: Guatire, Venn
Bid Due Date: 12-Jun-10

Date: 11-Jun-10
Quote No: T 1009 - B
Est By: WTS

I. Balance of Plant

				US Portion	Bs Portion
<u>100 Civil Structural</u>					8.0
101 Site Preparation		15 calc		3.006	
102 Excavation - Fill	Mhrs	21 calc		4.175	
103 Concrete Foundations	4,453	757 calc		151.469	
104 Concrete Pilings		- calc			
105 Paving Asphalt - Concrete		- calc			
106 Gravel - Sand		8 calc		1.670	
107 Structural Steel		35 calc		7.014	
108 Fencing		- calc			
109 Architectural Treatment		- calc			
110 Evaporation Pond		- calc			
		835		835	167
<u>200 Buildings</u>		252 calc		252	5,344
<u>300 Mechanical</u>					
310 Major Mechanical Equipment	Mhrs	195 calc		195	
320 Pipe, Valves & Fitting labor	10,800	calc			
330 Mechanical Subcontractor	2,620	153 calc		31	976
340 Pipe, Valves & Fitting Material		320 calc		320	
		668		668	
<u>400 Electrical</u>					
410 Major Electrical Equipment		800 calc		800	
420 Substation Equipment		- calc			
430 Plant Electrical Subcontractor	4,880	284 calc		57	1,818
440 Substation Subcontractor	-	- calc			
450 Conduit, Cable & Wire Material		290 calc		290	
460 Conduit, Cable & Wire Labor	7,200	419 calc		84	2,682
		1,793		1,793	
<u>500 Instrumentation</u>					
510 CEMS		- calc			
520 Plant Instrumentation		75 calc			
530 Instrumentation Subcontractor	1,200	70 calc			
		145		145	
<u>600 DCS System / Communications</u>					
610 Hardware / Software		80 calc			
620 Telephone System		- calc			
630 Public Address System		- calc			
640 TV / Security		- calc			
		80		80	
<u>700 Plant Erection</u>					
700 Plant Erection	2,400	140 calc			
750 Plant Dismantling		- plgd/1000			
755 Plant Dismantling Labor		- plgd/1000			
		140		140	
Total El/Mech Mhrs	29,100			28	894

RECAP OF COST ESTIMATE
(1,000'S)

800 Equipment Rental		32	calc	32	✓	6	* 205	✓
900 Painting		25	calc	25				
1000 Transportation								
1001 US Inland Transportation		187	calc		✓	187		
1002 Ocean/Air Freight		300	plgd /1000		✓	300		
1003 Destination Inland Freight		200	plgd /1000					
1004 Customs / Duties (plant equip & mat'l)		-	plgd /1000				1,600	✓
1005 Unload & Receive Mat'l at Site		75	plgd /1000				600	✓
1006 Receive, Inspect, Inventory		-	plgd /1000					
1007 Storage		-	plgd /1000					
1008 Local Registrations Fees, License, Etc.		-	plgd /1000					
1009 Transport of Damaged Goods for Repair		-	plgd /1000					
		762		762				
1100 Site Costs		106	calc	106			* 844	✓
1200 Engineering							should be + 8.00	
1201 EPC Eng Labor		175	calc				175	✓
1202 Local Eng		-	calc					
		175		175				
1300 Project Management								
1310 Project & Construction		160	calc					
1320 Inspectors		58	calc					
		218		218			218	✓
1400 Travel & Perdiem								
1410 Project Meal Expense		127	calc					
		-	calc					
		127		127			127	✓
1500 Technical Reps								
1501 GTG Tech Rep		-	2,500	-				
1502 Fire Water		-	2,000	-				
1503 Gas Compressor	45	2,200	99	plgd /1000				
1504 Chiller	-	2,000	-	plgd /1000				
1505 Water Treatment	-	2,000	-	plgd /1000				
1506 Commission / S/U / Trng	-	2,000	-	plgd /1000				
1507 Controls Rep	-	3,000	-	plgd /1000				
1508 Evap Cooler	-	2,000	-	plgd /1000				
1509 SCR	-	2,000	-	plgd /1000				
				99			99	✓

* see next page

40

291
15,914 ✓

5257

3020

8370

* 950,000 Bsf should be 7,800,000 Bsf

$$\frac{(7800^k - 950^k)}{8} = \$856,250 \text{ too low}$$