

FAC 1251 POL Pipeline

RUC: \$402.36 LF

Source: Special study for DLA/DESC in 2008/2009
Based upon PACES estimate and calculated per unit as follows.

SUC: \$6.94 LF

Source: Special study for DLA/DESC in 2008/2009 and calculated per unit as follows.

**Parametric Cost Engineering System (PACES)
Project Detail Report**

Project DESC Pipeline
Location: ARLINGTON, VIRGINIA
Description: 16 inch, seismic reinforced, above ground, coated carbon steel
Comments: 1000 ft length; unit price based on direct cost/1000 lf

Estimate Date: 12/08/2008
Estimate By: R&K fjk

Agency: Army

Report Date: 02/25/2009
09:04 AM

Construction Start Date: 04/01/2010
Construction Midpoint: 08/01/2010
Construction End Date: 01/01/2011

Escalation Rate: 9.69% Based on Project Construction Midpoint

Database Version: Jan 2006 Cost Book
PACES Version: 7.0.11

Project Detail Report

Facility: Pipeline**Type** Supporting**Model:** Installation Pipe Line

<u>Assembly</u>	<u>Description</u>	<u>Qty</u>	<u>UOM</u>	<u>Mtrl</u>	<u>Labor</u>	<u>Equip</u>	<u>Unit Cost</u>	<u>Total</u>
19004030	16" Exterior Coated Carbon Steel Pipe, SCH 40	1000	LF	\$28.40	\$6.21	\$0.74	\$35.35	\$35,350
19094116	Above Grnd Pipe Support, Stl And Reinforced Concrete	1000	LF	\$4.66	\$9.51	\$0.33	\$14.50	\$14,500
19094301	Isolation Valve	3	EA	\$72,250.49	\$6,240.53	\$0.00	\$78,491.02	\$235,473
19094402	Above Ground Pipe Seismic Reinforcing	1000	LF	\$24.28	\$4.42	\$0.22	\$28.92	\$28,917

Model Installation Pipe Line **\$314,240****Facility:** Pipeline **\$314,240**

Project Detail Report

02/25/2009
09:04 AM**Facilities Total (Direct Cost): \$314,240****Project Direct Cost: \$314,240**

Markups 39.4 % \$123,778

Project Marked Up Cost: \$438,018

Contingency 5.0 % \$21,901

SIOH 5.7 % \$26,215

Project Cost: \$486,134

Design/Indirect Cost: 0.0 % \$0

Total Project Cost: \$486,134**Construction Start** 04/01/2010**Construction Midpoint:** 08/01/2010**Construction End Date:** 01/01/2011**Escalation Rate:** 9.69% Based on Construction Midpoint**Database Version:** Jan 2006 Cost Book**PACES Version:** 7.0.11

DESC RCF Revisions						
FAC	FAC TITLE	UM	V.11 RCF \$09	PACES Direct Cost	PACES Unit	Unit Cost
1211	Aircraft Fueling Facility	GM	337.84	\$ 5,211,155	2400	\$ 2,171.31
1212	Aircraft Defueling Facility	GM	337.84	\$ 5,211,155	2400	\$ 2,171.31
1221	Marine Fueling Facility	GM	29.07			\$ 267.42
1231	Vehicle Fueling Facility	OL	13,748.50	\$ 249,800	2	\$ 124,900.00
1241	Aircraft Operating Fuel Storage	GA	1.96	\$ 1,992,868	420000	\$ 4.74
1242	Marine Operating Fuel Storage	GA	5.56	\$ 44,246	3000	\$ 14.75
1243	Vehicle Operating Fuel Storage	GA	5.76	\$ 86,668	25000	\$ 3.47
1244	Other Operating Fuel Storage	GA	9.39	\$ 43,968	17439	\$ 2.52
1251	POL Pipeline	LF	148.05	\$ 438,018	1000	\$ 438.02
1261	Liquid Fuel Loading/Unloading Facility	OL	13,748.50	\$ 456,159	4	\$ 114,039.75
1262	POL Pump Station	SF	681.19	\$ 2,022,665	1008	\$ 2,006.61
4111	Bulk Liquid Fuel Storage	BL	53.05			\$ 65.23

FAC 1251 Pipeline			Mean (MI) Mean (FT)	
			5.23	27614.4
			0.04	211.2
Design Life and Representative Size	31	Years	27614.4	FT

Component	Frequency	Estimated Cost per Occurrence	occurrences in design life	occurrences rounded	Design Life Cost
CP					
Induced Current (unit = 1 km)	1	\$ 5,000	31.0	31.0	\$ 155,000
Inspection				0.0	\$ -
API 570 Inspection (unit = km)	5	\$ 5,350	6	6.0	\$ 32,100
Coating				0.0	\$ -
Acid Wash & blast (unit = km)	10	\$ 123,000	3	3.0	\$ 369,000
Coating	10	17000	3	3.0	\$ 51,000
					\$ 607,100
Convert to FT, 1 km =	3281	LF			\$ 185
Per Year, 2003					\$ 5.97
\$FY-08	1.198				\$ 7.15
\$FY-09	1.02				\$ 7.30



SUC FAC 1251 POL Pipeline