

**FAC 1211     Aircraft Fueling Facility**

RUC:            \$1,994.53 GA

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

SUC:            \$7.86 GA

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

**RUC FAC 1211**

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

**Project** DESC FAC 1211 Aircraft Fueling System (Hydrant System)

**Location:** ARLINGTON, VIRGINIA

**Description:**

**Comments:**

**Estimate Date:** 12/08/2008

**Estimate By:** R&K fjk

**Agency:** Air Force

**Report Date:** 02/25/2009  
07:04 AM

**Construction Start Date:** 04/01/2009

**Construction Midpoint:** 11/01/2009

**Construction End Date:** 07/01/2010

**Escalation Rate:** 7.96% Based on Project Construction Midpoint

**Database Version:** Jan 2006 Cost Book

**PACES Version:** 7.0.11

Project Detail Report

02/25/2009

07:04 AM

Facility: Hydrant System

Model: Hydrant System

<u>Assembly</u>	<u>Description</u>
19094018	6" Stainless Steel Pipe, SCH 40, 304L, SW
19094117	Earthwork/Conc, 6" Pipe
19095101	Replace Concrete Paving
19096101	Fuel Hydrant, 4" Valve

Type Supporting

<u>Qty</u>	<u>UOM</u>	<u>Mtrl</u>	<u>Labor</u>	<u>Equip</u>	<u>Unit Cost</u>	<u>Total</u>
252	LF	\$93.60	\$23.12	\$0.00	\$116.72	\$29,414
252	LF	\$3.21	\$12.32	\$4.36	\$19.88	\$5,011
9040	CY	\$99.80	\$129.17	\$41.67	\$270.63	\$2,446,533
18	EA	\$72,250.49	\$6,240.53	\$407.67	\$78,898.69	\$1,420,176
Model Hydrant System						\$3,901,134

Facility: Hydrant System \$3,901,134

# Project Detail Report

**Facilities Total (Direct Cost): \$3,901,134**

**Project Direct Cost: \$3,901,134**

Markups	33.6	%	\$1,310,021
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**Project Marked Up Cost: \$5,211,155**

Contingency	5.0	%	\$260,558
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SIOH	5.7	%	\$311,888
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**Project Cost: \$5,783,601**

Design/Indirect Cost:	0.0	%	\$0
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**Total Project Cost: \$5,783,601**

**Construction Start** 04/01/2009

**Construction Midpoint:** 11/01/2009

**Construction End Date:** 07/01/2010

**Escalation Rate:** 7.96% Based on Construction Midpoint

**Database Version:** Jan 2006 Cost Book

**PACES Version:** 7.0.11

DESC RCF Revisions						
FAC	FACTITLE	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 1211 Aircraft Fueling Facility

			Truck	Hydrant	
Design Life and Representative Size	30	Years	816.1	2418.6	GM
Component					
<b>Truck</b>					
Operator Maintenance from Hickam AFB		\$ 191	Per GM		\$ 1.87
Requirement, from CostWorks model		\$ 1,388	Per GM		\$ 1.70
Total Truck					\$ 3.57
<b>Hydrant</b>					
Requirement, Operator Maintenance from Hickam AFB					\$ 7.27
Requirement, from CostWorks model					\$ 1.78
Total Hydrant					\$ 9.05
Weighted Average		% based on Proportion of GM in Inventory			
<b>Hydrant</b>		86%		\$ 9.05	\$ 7.76
<b>Truck</b>		14%		\$ 3.57	\$ 0.51
<b>Total</b>					\$ 8.27

## Percentage of Operator Maintenance

Operator	Contract	Total
\$ 9.14	\$ 3.48	\$ 12.62
72%	28%	



NAS Jacksonville



AAF Parkersburg WV



Hickam AFB

## SUC FAC 1211