

**REQUEST FOR PROPOSAL (RFP)**  
**Langley AFB Multiple Award Construction Contract (MACC)**  
**Amendment 02**

**Issued By:** 633d Contracting Squadron/LGCB  
74 Nealy Avenue  
Langley AFB, VA 23665

21 January 2011

**Point of Contact:** Mr. Michael Costlow, (757) 764-2597, A1C Byron Irving, (757) 225-8461

**PROJECT NUMBER: ASE-00097-0J**

**PROJECT TITLE: Renovate Classrooms, Bldg 2716G, Rooms G11 & G12**

---

**The purpose of this Amendment is to:**

- **Implement the changes noted below.**
  - **Provide necessary information regarding, carpet, doors and flow test.**
- 1) Fir out and insulate north, east, & west walls: metal studs, sheetrock, sound attenuating insulation, tape joints, and paint.
  - 2) Provide and install 6 duplex 120v electrical drops (4 plug receptacles), wiring, and power hook-up; 3 on east wall & 3 on west wall. All receptacles to be recessed and flush with wall and no exposed conduit or boxes.
  - 3) Roll up door on North wall will NOT be removed. This wall to be fired out as in item 1 above and Install 2, 4 plug 120v receptacles on this wall.
  - 4) Provide and install 6 data drop boxes, conduit to above ceiling with pull strings; 3 on east wall & 3 on west wall (two data ports per box).
  - 5) Replace drop ceiling grid work and tiles, install sound attenuating insulation above ceiling. Ceiling tile to be white 2 x 2 acoustical with black grid.
  - 6) Replace existing light fixtures and add two (10 fixtures per room total), to provide 70FC lumination minimum provide front to back switching capability (fixtures closest to projector screen are to be on separate switch). Old fixtures to be carefully removed and stored for future use.
  - 7) Remove 250V electrical service on north wall in room 12. Conduit to be terminated above suspended ceiling.
  - 8) Replace carpet and install new 4" black vinyl base on all walls. Carpet to match carpet in room G3.
  - 9) Replace door and hardware, new door to match existing door in room G3 with safety glass and view port. Door threshold to be metal (approx 3" width). Paint both sides existing door frames black.
  - 10) Install Fire Protection sprinkler system, FPE design and stamp required.

- 11) Clean and reinstall HVAC grills, smoke detectors, and misc equipment.
- 12) Projector screen wall to be repaired and painted.
- 13) All new and existing Electrical switch and cover plates to be brushed metal finish.
- 14) All electrical receptacles and switches to be labeled to corresponding circuit breaker and panel box.
- 15) If required for proper construction Contractor to carefully remove and reinstall projector and screen system.

**CARPET:**

The color was at 827.

Furnish and install Patcraft Scholastic carpet tile color #00471 in two rooms (28x32).

**DOORS:**

We bought the doors from "Stock Building Supply" locally. We bought solid core, birch unfinished doors and bought separate lite kits for the windows and field installed them. The finish was two coats of a clear polyurethane finish. They were a sock item.

Attached: Flow Test



# Old Dominion Utility Services, Inc.

A Subsidiary of American States Utility Services, Inc.

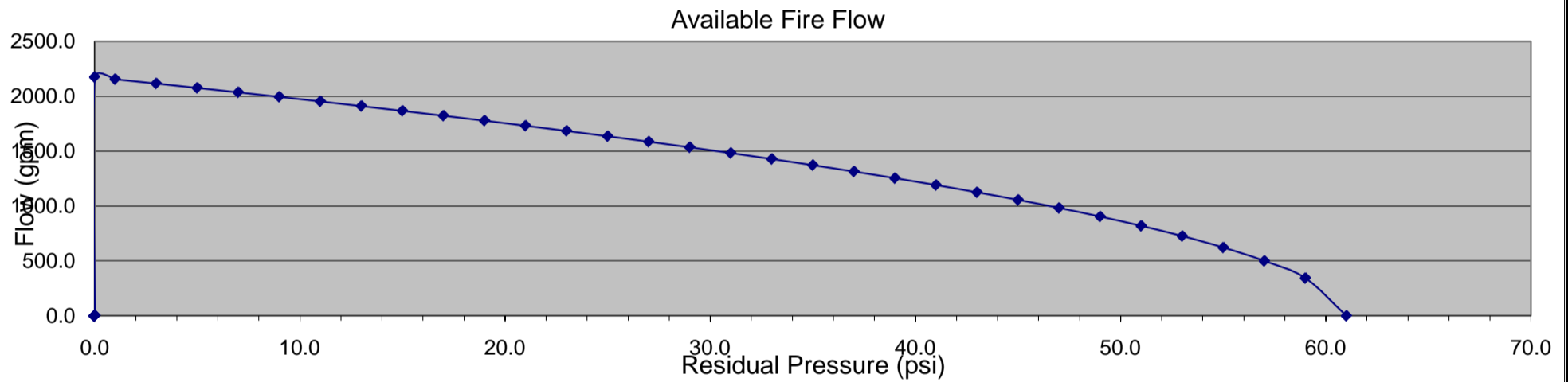
## FIRE HYDRANT FIRE FLOW TEST

Date 05/07/09 Time 2:00 Weather Sunny

Flusher / Tester Prism CE Temperature 80 °F / °C

Flow Hydrant 2709  
 Diameter 2.5 inches  
 Coefficient 0.77  
 Pitot 29 psi  
 Flow at Residual Pressure 773 gpm  
 Mins/flowed 2 Water Used 207 cubic feet

Gage (test) Hydrant 2722  
 Static 61 psi  
 Residual 52 psi  
 Flow available at 20psi residual 1753 gpm



Pitot Chart				Flow Available at Residual Pressure					
psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm
1	144	28	760	55	1065	61	0	5	2075
2	203	29	773	56	1074	59	343	3	2114
3	249	30	786	57	1084	57	499	1	2153
4	287	31	799	58	1093	55	621	0	2173
5	321	32	812	59	1103	53	725	-	-
6	352	33	825	60	1112	51	818	-	-
7	380	34	837	61	1121	49	903	-	-
8	406	35	849	62	1130	47	981	-	-
9	431	36	861	63	1139	45	1055	-	-
10	454	37	873	64	1148	43	1124	-	-
11	476	38	885	65	1157	41	1190	-	-
12	497	39	897	66	1166	39	1253	-	-
13	518	40	908	67	1175	37	1313	-	-
14	537	41	919	68	1184	35	1371	-	-
15	556	42	930	69	1192	33	1427	-	-
16	574	43	941	70	1201	31	1481	-	-
17	592	44	952	71	1210	29	1534	-	-
18	609	45	963	72	1218	27	1585	-	-
19	626	46	974	73	1227	25	1634	-	-
20	642	47	984	74	1235	23	1683	-	-
21	658	48	995	75	1243	21	1730	-	-
22	673	49	1005	76	1251	19	1776	-	-
23	688	50	1015	77	1260	17	1821	-	-
24	703	51	1025	78	1268	15	1866	-	-
25	718	52	1035	79	1276	13	1909	-	-
26	732	53	1045	80	1284	11	1952	-	-
27	746	54	1055	81	1292	9	1993	-	-
28	760	55	1065	82	1300	7	2034	-	-



# Old Dominion Utility Services, Inc.

A Subsidiary of American States Utility Services, Inc.

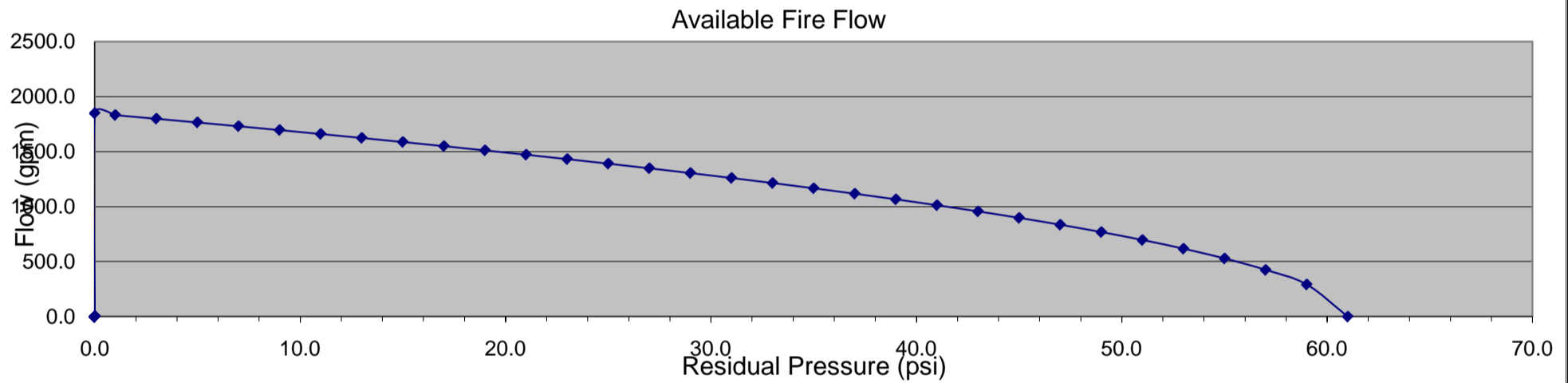
## FIRE HYDRANT FIRE FLOW TEST

Date 05/07/09 Time 2:05 Weather Sunny

Flusher / Tester Prism CE Temperature 80 °F / °C

Flow Hydrant 2715  
 Diameter 2.5 inches  
 Coefficient 0.77  
 Pitot 26 psi  
 Flow at Residual Pressure 732 gpm  
 Mins/flowed 2 Water Used 196 cubic feet

Gage (test) Hydrant 2722  
 Static 61 psi  
 Residual 50 psi  
 Flow available at 20psi residual 1490 gpm



Pitot Chart					Flow Available at Residual Pressure				
psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm
1	144	28	760	55	1065	61	0	5	1763
2	203	29	773	56	1074	59	292	3	1796
3	249	30	786	57	1084	57	424	1	1830
4	287	31	799	58	1093	55	528	0	1846
5	321	32	812	59	1103	53	616	-	-
6	352	33	825	60	1112	51	695	-	-
7	380	34	837	61	1121	49	767	-	-
8	406	35	849	62	1130	47	834	-	-
9	431	36	861	63	1139	45	896	-	-
10	454	37	873	64	1148	43	955	-	-
11	476	38	885	65	1157	41	1011	-	-
12	497	39	897	66	1166	39	1064	-	-
13	518	40	908	67	1175	37	1116	-	-
14	537	41	919	68	1184	35	1165	-	-
15	556	42	930	69	1192	33	1212	-	-
16	574	43	941	70	1201	31	1258	-	-
17	592	44	952	71	1210	29	1303	-	-
18	609	45	963	72	1218	27	1346	-	-
19	626	46	974	73	1227	25	1389	-	-
20	642	47	984	74	1235	23	1430	-	-
21	658	48	995	75	1243	21	1470	-	-
22	673	49	1005	76	1251	19	1509	-	-
23	688	50	1015	77	1260	17	1547	-	-
24	703	51	1025	78	1268	15	1585	-	-
25	718	52	1035	79	1276	13	1622	-	-
26	732	53	1045	80	1284	11	1658	-	-
27	746	54	1055	81	1292	9	1694	-	-
28	760	55	1065	82	1300	7	1728	-	-



# Old Dominion Utility Services, Inc.

A Subsidiary of American States Utility Services, Inc.

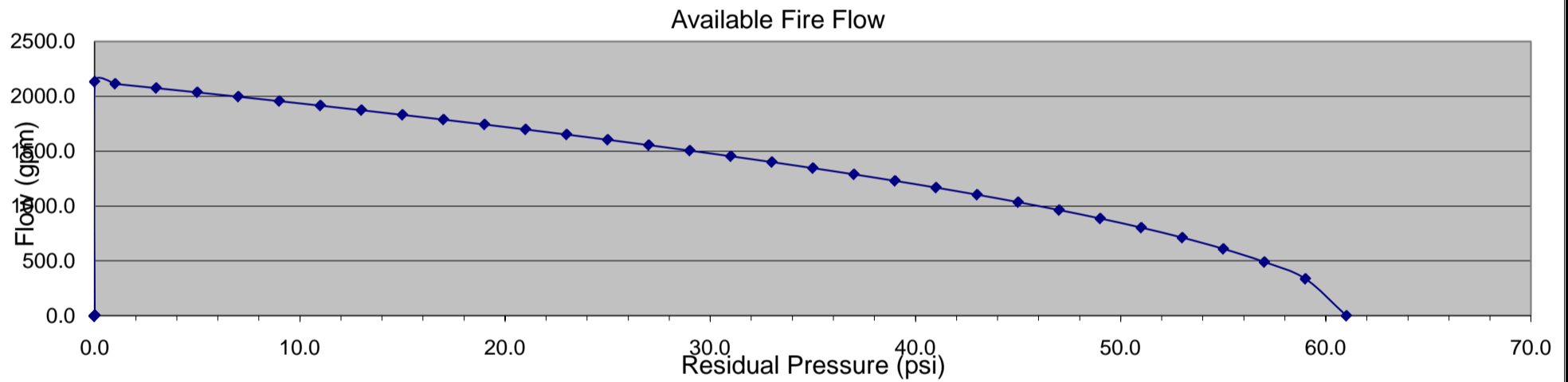
## FIRE HYDRANT FIRE FLOW TEST

Date 05/07/09 Time 11:55 Weather Sunny

Flusher / Tester Prism CE Temperature 75 °F / °C

Flow Hydrant 2716  
 Diameter 2.5 inches  
 Coefficient 0.77  
 Pitot 18 psi  
 Flow at Residual Pressure 609 gpm  
 Mins/flowed 2 Water Used 163 cubic feet

Gage (test) Hydrant 2722  
 Static 61 psi  
 Residual 55 psi  
 Flow available at 20psi residual 1719 gpm



Pitot Chart				Flow Available at Residual Pressure					
psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm
1	144	28	760	55	1065	61	0	5	2035
2	203	29	773	56	1074	59	337	3	2074
3	249	30	786	57	1084	57	489	1	2112
4	287	31	799	58	1093	55	609	0	2131
5	321	32	812	59	1103	53	711	-	-
6	352	33	825	60	1112	51	803	-	-
7	380	34	837	61	1121	49	886	-	-
8	406	35	849	62	1130	47	962	-	-
9	431	36	861	63	1139	45	1034	-	-
10	454	37	873	64	1148	43	1102	-	-
11	476	38	885	65	1157	41	1167	-	-
12	497	39	897	66	1166	39	1228	-	-
13	518	40	908	67	1175	37	1288	-	-
14	537	41	919	68	1184	35	1344	-	-
15	556	42	930	69	1192	33	1399	-	-
16	574	43	941	70	1201	31	1452	-	-
17	592	44	952	71	1210	29	1504	-	-
18	609	45	963	72	1218	27	1554	-	-
19	626	46	974	73	1227	25	1603	-	-
20	642	47	984	74	1235	23	1650	-	-
21	658	48	995	75	1243	21	1697	-	-
22	673	49	1005	76	1251	19	1742	-	-
23	688	50	1015	77	1260	17	1786	-	-
24	703	51	1025	78	1268	15	1830	-	-
25	718	52	1035	79	1276	13	1872	-	-
26	732	53	1045	80	1284	11	1914	-	-
27	746	54	1055	81	1292	9	1955	-	-
28	760	55	1065	82	1300	7	1995	-	-



# Old Dominion Utility Services, Inc.

A Subsidiary of American States Utility Services, Inc.

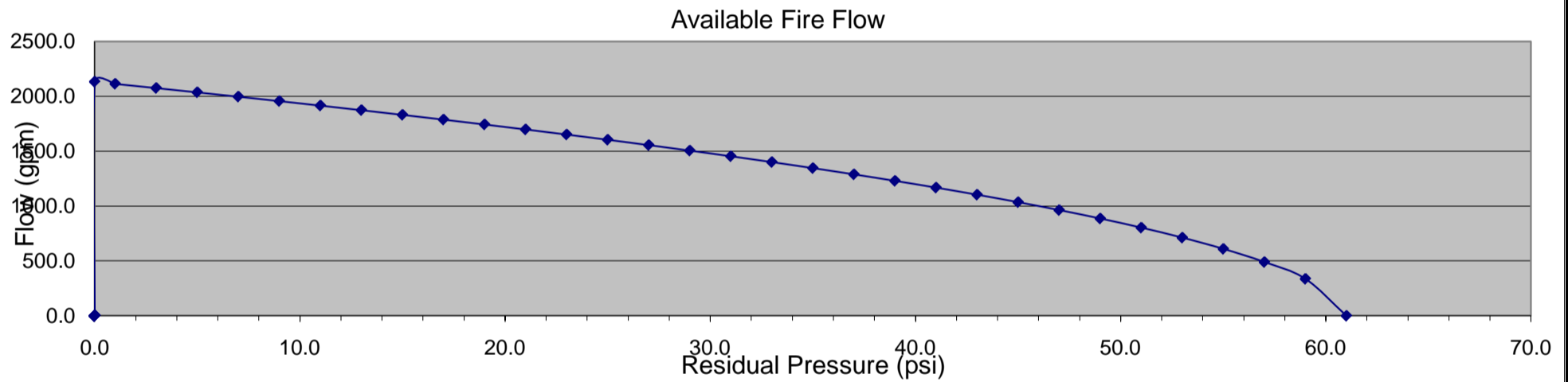
## FIRE HYDRANT FIRE FLOW TEST

Date 05/07/09 Time 1:55 Weather Sunny

Flusher / Tester Prism CE Temperature 80 °F / °C

Flow Hydrant 2721  
 Diameter 2.5 inches  
 Coefficient 0.77  
 Pitot 18 psi  
 Flow at Residual Pressure 609 gpm  
 Mins/flowed 2 Water Used 163 cubic feet

Gage (test) Hydrant 2722  
 Static 61 psi  
 Residual 55 psi  
 Flow available at 20psi residual 1719 gpm



Pitot Chart				Flow Available at Residual Pressure					
psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm
1	144	28	760	55	1065	61	0	5	2035
2	203	29	773	56	1074	59	337	3	2074
3	249	30	786	57	1084	57	489	1	2112
4	287	31	799	58	1093	55	609	0	2131
5	321	32	812	59	1103	53	711	-	-
6	352	33	825	60	1112	51	803	-	-
7	380	34	837	61	1121	49	886	-	-
8	406	35	849	62	1130	47	962	-	-
9	431	36	861	63	1139	45	1034	-	-
10	454	37	873	64	1148	43	1102	-	-
11	476	38	885	65	1157	41	1167	-	-
12	497	39	897	66	1166	39	1228	-	-
13	518	40	908	67	1175	37	1288	-	-
14	537	41	919	68	1184	35	1344	-	-
15	556	42	930	69	1192	33	1399	-	-
16	574	43	941	70	1201	31	1452	-	-
17	592	44	952	71	1210	29	1504	-	-
18	609	45	963	72	1218	27	1554	-	-
19	626	46	974	73	1227	25	1603	-	-
20	642	47	984	74	1235	23	1650	-	-
21	658	48	995	75	1243	21	1697	-	-
22	673	49	1005	76	1251	19	1742	-	-
23	688	50	1015	77	1260	17	1786	-	-
24	703	51	1025	78	1268	15	1830	-	-
25	718	52	1035	79	1276	13	1872	-	-
26	732	53	1045	80	1284	11	1914	-	-
27	746	54	1055	81	1292	9	1955	-	-
28	760	55	1065	82	1300	7	1995	-	-



# Old Dominion Utility Services, Inc.

A Subsidiary of American States Utility Services, Inc.

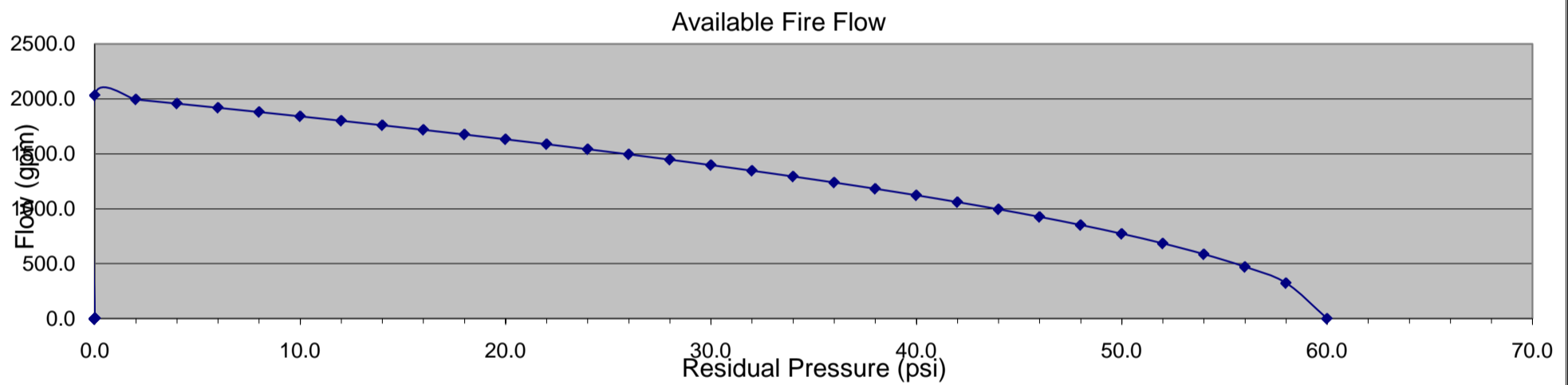
## FIRE HYDRANT FIRE FLOW TEST

Date 05/07/09 Time 2:15 Weather Sunny

Flusher / Tester Prism CE Temperature 80 °F / °C

Flow Hydrant 2722  
 Diameter 2.5 inches  
 Coefficient 0.77  
 Pitot 32 psi  
 Flow at Residual Pressure 812 gpm  
 Mins/flowed 2 Water Used 217 cubic feet

Gage (test) Hydrant 2715  
 Static 60 psi  
 Residual 49 psi  
 Flow available at 20psi residual 1631 gpm



Pitot Chart				Flow Available at Residual Pressure					
psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm
1	144	28	760	55	1065	60	0	4	1956
2	203	29	773	56	1074	58	323	2	1993
3	249	30	786	57	1084	56	470	0	2030
4	287	31	799	58	1093	54	585	-	-
5	321	32	812	59	1103	52	684	-	-
6	352	33	825	60	1112	50	771	-	-
7	380	34	837	61	1121	48	851	-	-
8	406	35	849	62	1130	46	925	-	-
9	431	36	861	63	1139	44	994	-	-
10	454	37	873	64	1148	42	1059	-	-
11	476	38	885	65	1157	40	1122	-	-
12	497	39	897	66	1166	38	1181	-	-
13	518	40	908	67	1175	36	1238	-	-
14	537	41	919	68	1184	34	1292	-	-
15	556	42	930	69	1192	32	1345	-	-
16	574	43	941	70	1201	30	1396	-	-
17	592	44	952	71	1210	28	1446	-	-
18	609	45	963	72	1218	26	1494	-	-
19	626	46	974	73	1227	24	1540	-	-
20	642	47	984	74	1235	22	1586	-	-
21	658	48	995	75	1243	20	1631	-	-
22	673	49	1005	76	1251	18	1674	-	-
23	688	50	1015	77	1260	16	1717	-	-
24	703	51	1025	78	1268	14	1758	-	-
25	718	52	1035	79	1276	12	1799	-	-
26	732	53	1045	80	1284	10	1839	-	-
27	746	54	1055	81	1292	8	1879	-	-
28	760	55	1065	82	1300	6	1918	-	-



# Old Dominion Utility Services, Inc.

A Subsidiary of American States Utility Services, Inc.

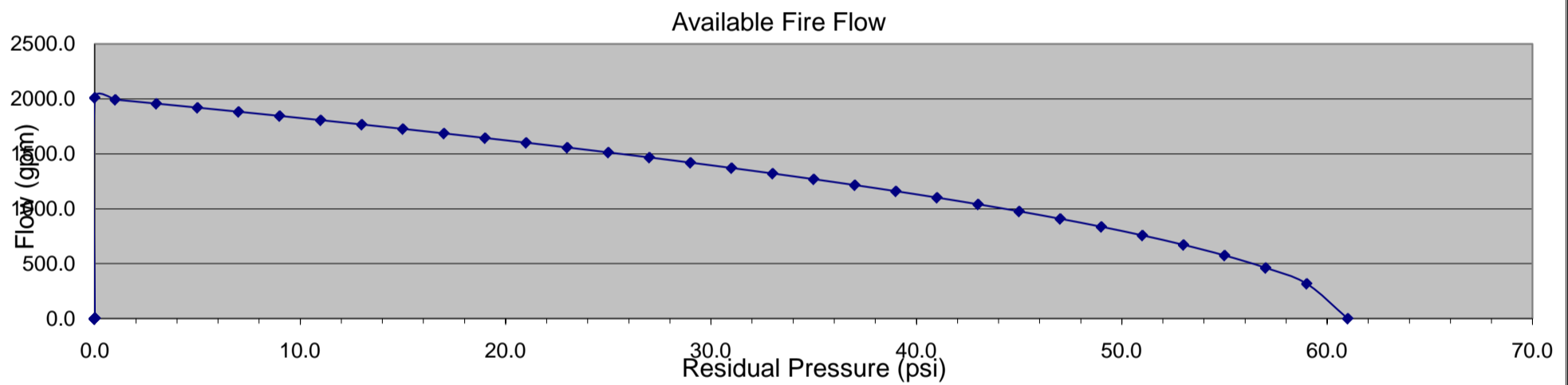
## FIRE HYDRANT FIRE FLOW TEST

Date 05/07/09 Time 12:05 Weather Sunny

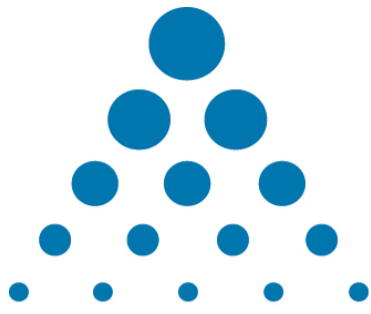
Flusher / Tester Prism CE Temperature 75 °F / °C

Flow Hydrant 2723  
 Diameter 2.5 inches  
 Coefficient 0.77  
 Pitot 16 psi  
 Flow at Residual Pressure 574 gpm  
 Mins/flowed 2 Water Used 154 cubic feet

Gage (test) Hydrant 2722  
 Static 61 psi  
 Residual 55 psi  
 Flow available at 20psi residual 1621 gpm



Pitot Chart				Flow Available at Residual Pressure					
psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm
1	144	28	760	55	1065	61	0	5	1918
2	203	29	773	56	1074	59	317	3	1955
3	249	30	786	57	1084	57	461	1	1991
4	287	31	799	58	1093	55	574	0	2009
5	321	32	812	59	1103	53	671	-	-
6	352	33	825	60	1112	51	757	-	-
7	380	34	837	61	1121	49	835	-	-
8	406	35	849	62	1130	47	907	-	-
9	431	36	861	63	1139	45	975	-	-
10	454	37	873	64	1148	43	1039	-	-
11	476	38	885	65	1157	41	1100	-	-
12	497	39	897	66	1166	39	1158	-	-
13	518	40	908	67	1175	37	1214	-	-
14	537	41	919	68	1184	35	1268	-	-
15	556	42	930	69	1192	33	1319	-	-
16	574	43	941	70	1201	31	1369	-	-
17	592	44	952	71	1210	29	1418	-	-
18	609	45	963	72	1218	27	1465	-	-
19	626	46	974	73	1227	25	1511	-	-
20	642	47	984	74	1235	23	1556	-	-
21	658	48	995	75	1243	21	1600	-	-
22	673	49	1005	76	1251	19	1642	-	-
23	688	50	1015	77	1260	17	1684	-	-
24	703	51	1025	78	1268	15	1725	-	-
25	718	52	1035	79	1276	13	1765	-	-
26	732	53	1045	80	1284	11	1804	-	-
27	746	54	1055	81	1292	9	1843	-	-
28	760	55	1065	82	1300	7	1881	-	-



# Old Dominion Utility Services, Inc.

A Subsidiary of American States Utility Services, Inc.

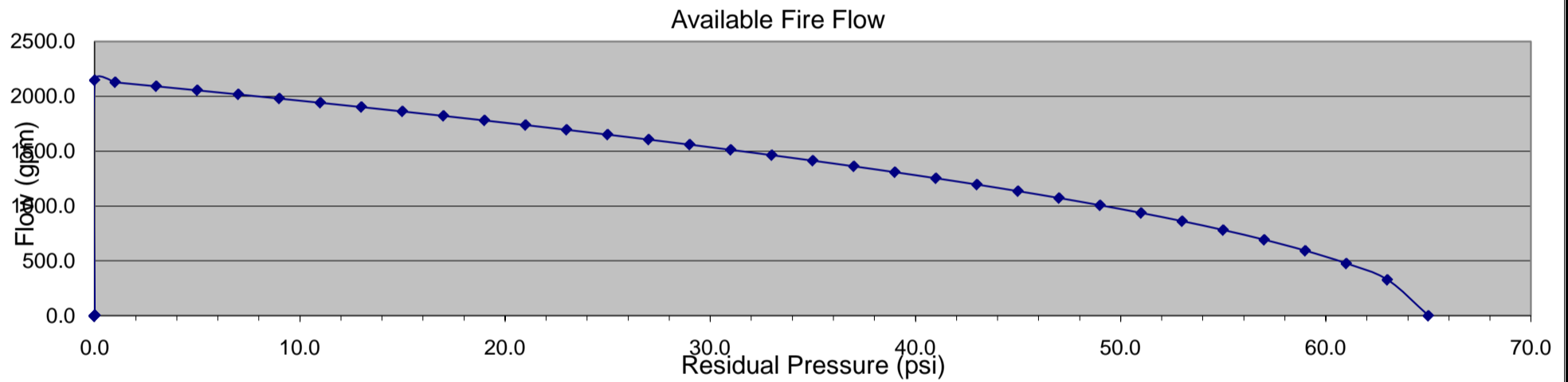
## FIRE HYDRANT FIRE FLOW TEST

Date 04/30/09 Time 11:50 Weather Cloudy

Flusher / Tester Prism CE Temperature 65 °F / °C

Flow Hydrant 2743  
 Diameter 2.5 inches  
 Coefficient 0.77  
 Pitot 36 psi  
 Flow at Residual Pressure 861 gpm  
 Mins/flowed 2 Water Used 230 cubic feet

Gage (test) Hydrant 2735  
 Static 65 psi  
 Residual 53 psi  
 Flow available at 20psi residual 1759 gpm



Pitot Chart				Flow Available at Residual Pressure					
psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm
1	144	28	760	55	1065	65	0	9	1979
2	203	29	773	56	1074	63	327	7	2017
3	249	30	786	57	1084	61	476	5	2054
4	287	31	799	58	1093	59	592	3	2091
5	321	32	812	59	1103	57	692	1	2127
6	352	33	825	60	1112	55	781	0	2145
7	380	34	837	61	1121	53	861	-	-
8	406	35	849	62	1130	51	936	-	-
9	431	36	861	63	1139	49	1006	-	-
10	454	37	873	64	1148	47	1072	-	-
11	476	38	885	65	1157	45	1135	-	-
12	497	39	897	66	1166	43	1195	-	-
13	518	40	908	67	1175	41	1252	-	-
14	537	41	919	68	1184	39	1308	-	-
15	556	42	930	69	1192	37	1361	-	-
16	574	43	941	70	1201	35	1413	-	-
17	592	44	952	71	1210	33	1463	-	-
18	609	45	963	72	1218	31	1512	-	-
19	626	46	974	73	1227	29	1559	-	-
20	642	47	984	74	1235	27	1605	-	-
21	658	48	995	75	1243	25	1650	-	-
22	673	49	1005	76	1251	23	1694	-	-
23	688	50	1015	77	1260	21	1737	-	-
24	703	51	1025	78	1268	19	1780	-	-
25	718	52	1035	79	1276	17	1821	-	-
26	732	53	1045	80	1284	15	1861	-	-
27	746	54	1055	81	1292	13	1901	-	-
28	760	55	1065	82	1300	11	1940	-	-



# Old Dominion Utility Services, Inc.

A Subsidiary of American States Utility Services, Inc.

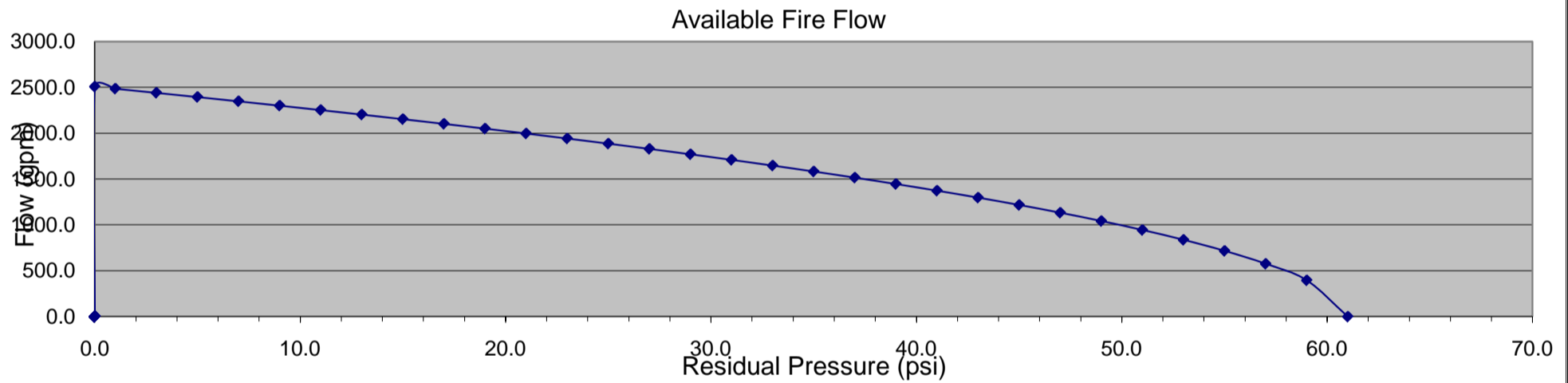
## FIRE HYDRANT FIRE FLOW TEST

Date 05/07/09 Time 11:50 Weather Sunny

Flusher / Tester Prism CE Temperature 75 °F / °C

Flow Hydrant 2743  
 Diameter 2.5 inches  
 Coefficient 0.77  
 Pitot 34 psi  
 Flow at Residual Pressure 837 gpm  
 Mins/flowed 2 Water Used 224 cubic feet

Gage (test) Hydrant 2722  
 Static 61 psi  
 Residual 53 psi  
 Flow available at 20psi residual 2023 gpm



Pitot Chart				Flow Available at Residual Pressure					
psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm
1	144	28	760	55	1065	61	0	5	2394
2	203	29	773	56	1074	59	396	3	2440
3	249	30	786	57	1084	57	576	1	2485
4	287	31	799	58	1093	55	717	0	2507
5	321	32	812	59	1103	53	837	-	-
6	352	33	825	60	1112	51	944	-	-
7	380	34	837	61	1121	49	1042	-	-
8	406	35	849	62	1130	47	1132	-	-
9	431	36	861	63	1139	45	1217	-	-
10	454	37	873	64	1148	43	1297	-	-
11	476	38	885	65	1157	41	1373	-	-
12	497	39	897	66	1166	39	1445	-	-
13	518	40	908	67	1175	37	1515	-	-
14	537	41	919	68	1184	35	1582	-	-
15	556	42	930	69	1192	33	1646	-	-
16	574	43	941	70	1201	31	1709	-	-
17	592	44	952	71	1210	29	1770	-	-
18	609	45	963	72	1218	27	1828	-	-
19	626	46	974	73	1227	25	1886	-	-
20	642	47	984	74	1235	23	1942	-	-
21	658	48	995	75	1243	21	1996	-	-
22	673	49	1005	76	1251	19	2050	-	-
23	688	50	1015	77	1260	17	2102	-	-
24	703	51	1025	78	1268	15	2153	-	-
25	718	52	1035	79	1276	13	2203	-	-
26	732	53	1045	80	1284	11	2252	-	-
27	746	54	1055	81	1292	9	2300	-	-
28	760	55	1065	82	1300	7	2347	-	-