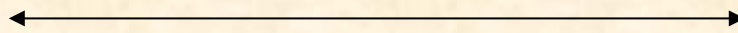


**Fire Test Report**  
**API Standard 6FB, Third Edition**

*Performed for*

**Garlock Pipeline Technologies**

<http://www.gptindustries.com>



**2 inch Class 1500 VCFS Gasket**  
**1 mil Dielectric Film w/1 mil Adhesive Both Sides**

Project Number: 215082  
Test Date: March 24, 2015



*Performed by*

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**YARMOUTH RESEARCH AND TECHNOLOGY, LLC**

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# Yarmouth Research and Technology, LLC

## API 6FB FIRE TEST REPORT

<b>Customer:</b>	Garlock Pipeline Valve	<b>Date:</b>	3/24/2015
<b>Project Number:</b>	215082		
<b>Product Code:</b>	2 inch Class 1500 VCFS Gasket		
	1 mil Dielectric film w/ 1 mil adhesive both sides		
<b>Specification:</b>	API 6FB, Third Edition, Nov. 1998 (R 2011)		
	Non-Bending, On-shore Test		
<b>Gasket Thickness:</b>	0.302	inches	
<b>Seal Area OD:</b>	2.815	<b>Seal Area ID:</b>	2.315 inches
<b>Mean Seal Diameter:</b>	2.565	inches	
<b>Mean Circumference:</b>	8.1	inches	
<b>Allowable Leakage:</b>	8.1	ml/min	
<b>Nominal Test Pressure:</b>	2812.5	psig	
<b>YRT Technician:</b>	Matthew J. Wasielewski, P.E.		
	<b>Version of YRT's FIRE-Control 6FB Software:</b>	A	
	<b>Equipment Confirmed to be in Calibration to NIST Standards:</b>	Yes	

### *Burn and Cool Down Test*

Burn Start Time:	14:43:00	
Burn / Cooldown Duration:	60	minutes
Average Pressure During Burn/Cooldown:	2839	psig
Leak Rate During Burn/Cool Down:	0.1	ml/min
Allowable External Leak Rate:	8.1	ml/min
Amount of Time of Avg. Cal. Block > 1200 deg.:	20.3	minutes
Were Test Conditions Within Compliance?	Yes	

Was the Leakage Below the Allowable?	Yes
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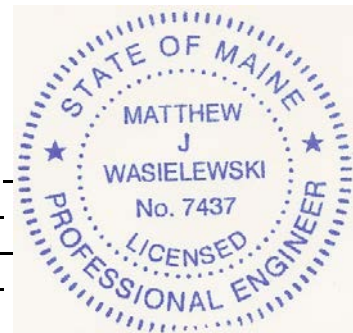
### *Depressurization - Re-pressurization Test*

Average Pressure During Test:	2783	psig
Gasket Leak Rate:	0	ml/min
Allowable External Leak Rate:	8.1	ml/min
Was the Leakage Below the Allowable?	Yes	
<b>Does the Gasket Pass or Fail API 6FB?</b>	<b>PASS</b>	

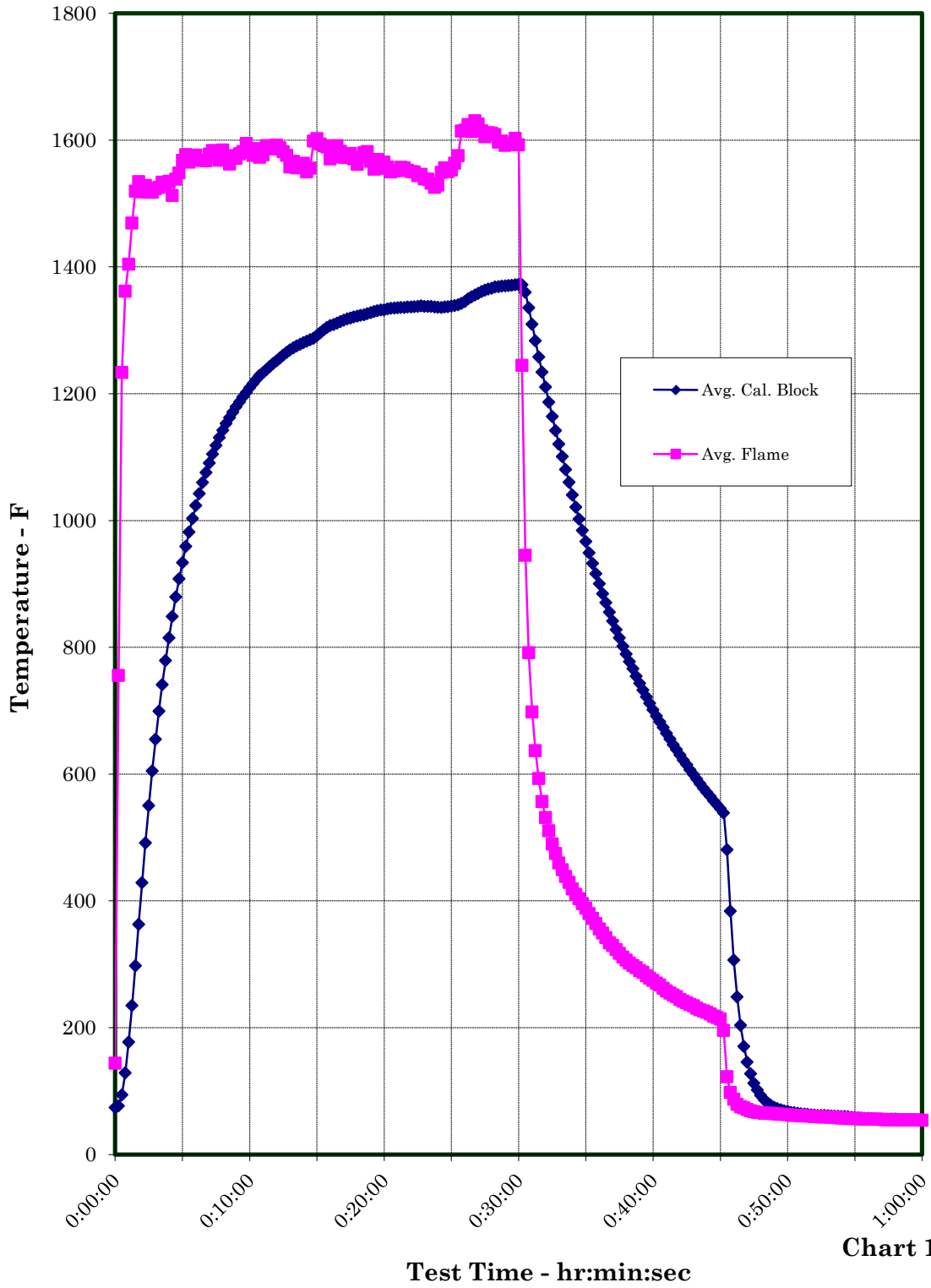
Certified By:



Matthew J. Wasielewski, PE  
President and Manager  
Yarmouth Research and Technology, LLC



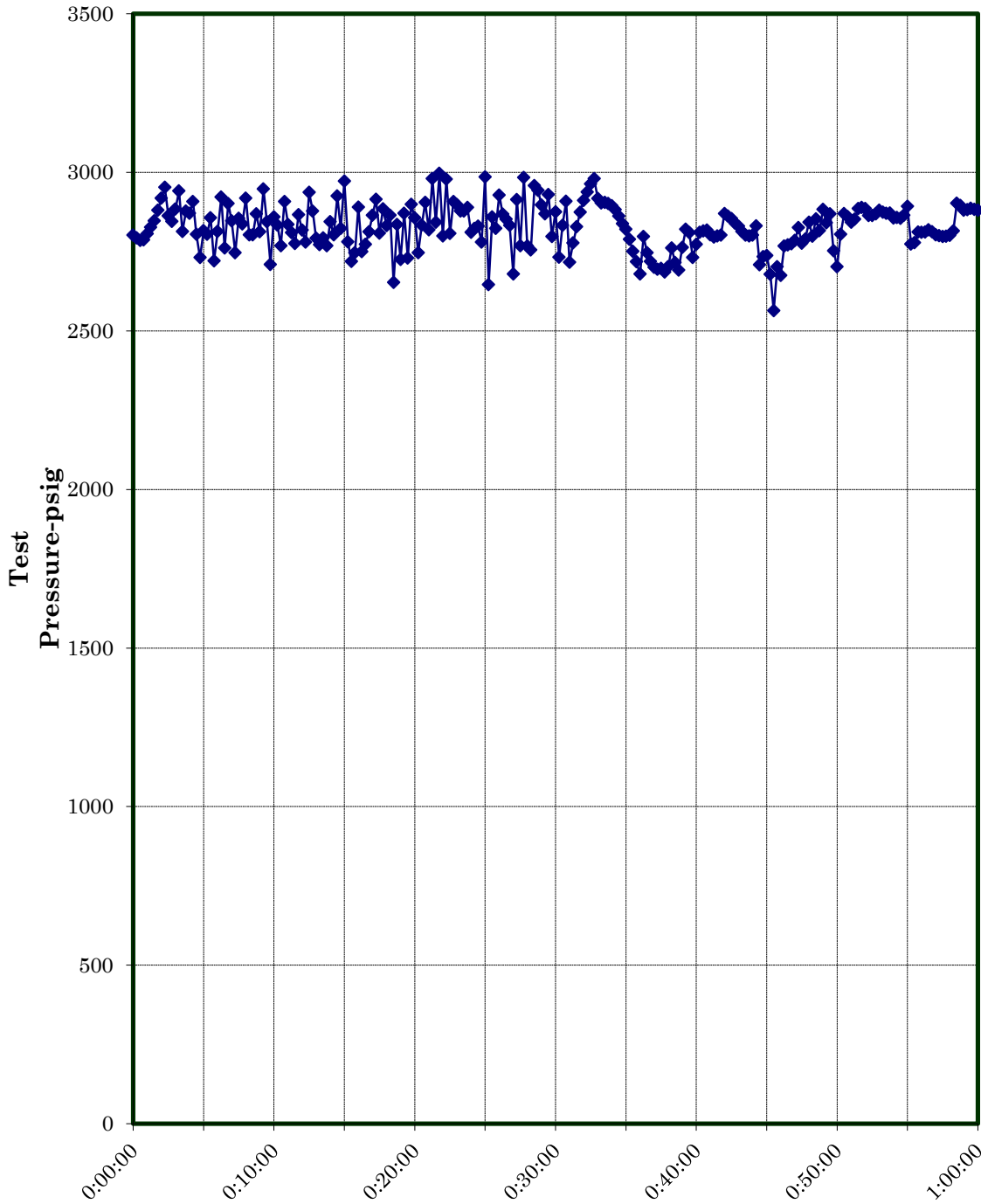
**Temperature verses Time Chart**



**Chart 1**

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**Pressure versus Time Chart**



**Test Time - hr:min:sec**

**Chart 2**

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Test Gasket Prior to Burn

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Test Setup Prior to Burn



Test Gasket During Burn



Yarmouth Research and Technology, LLC



Test Gasket During Burn



Test Gasket Post-Burn

## Yarmouth Research and Technology, LLC

### Fire Test Information

Customer: Garlock Pipeline Valve

Test Date: 3/24/2015

Product Code: 2 inch Class 1500 VCFS Gasket

Project Number: 215082

### Fire Test Raw Data

Time	Pressure (psig)	Water Volume (mls)	Cal. 1 Block Temp - F	Cal. 2 Block Temp - F	Cal. 3 Block Temp - F	Average Block Temp - F	Flame 1 Temp - F	Flame 2 Temp - F	Flame 3 Temp - F	Average Flame Temp - F
14:43:00	2802	32993	76	76	70	74	147	156	128	144
14:43:15	2793	32992	79	79	71	76	903	859	505	756
14:43:30	2785	32984	100	101	81	94	1375	1398	927	1233
14:43:45	2787	32975	140	146	100	129	1530	1539	1016	1362
14:44:00	2807	32994	195	208	128	177	1550	1566	1097	1404
14:44:15	2827	32987	259	282	163	235	1568	1588	1251	1469
14:44:30	2847	32984	323	362	207	297	1556	1545	1457	1519
14:44:45	2880	33009	388	441	260	363	1545	1550	1508	1534
14:45:00	2918	32995	450	517	318	428	1534	1533	1488	1518
14:45:15	2953	32995	508	588	378	491	1530	1540	1515	1528
14:45:30	2863	32983	559	654	438	550	1527	1538	1488	1518
14:45:45	2845	32967	604	713	497	605	1507	1552	1494	1518
14:46:00	2884	32976	644	767	553	655	1515	1550	1505	1523
14:46:15	2941	32998	679	815	604	699	1488	1554	1535	1526
14:46:30	2813	32972	712	858	653	741	1500	1544	1557	1534
14:46:45	2878	32993	741	897	699	779	1518	1538	1540	1532
14:47:00	2871	32982	770	934	741	815	1542	1549	1514	1535
14:47:15	2908	33003	798	968	779	848	1519	1565	1454	1513
14:47:30	2804	32996	824	1001	813	879	1536	1562	1517	1538
14:47:45	2731	32968	848	1030	845	908	1534	1564	1546	1548
14:48:00	2816	32988	871	1056	874	934	1550	1568	1587	1568
14:48:15	2804	32979	893	1080	904	959	1553	1576	1602	1577
14:48:30	2856	32988	913	1101	931	982	1556	1576	1564	1565
14:48:45	2721	32985	932	1122	955	1003	1559	1567	1586	1571
14:49:00	2814	32983	951	1141	978	1023	1570	1582	1577	1576
14:49:15	2922	32994	968	1160	999	1042	1562	1571	1572	1568
14:49:30	2762	32999	984	1177	1019	1060	1566	1572	1567	1568



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14:49:45	2902	32979	998	1193	1036	1076	1574	1579	1549	1567
14:50:00	2847	32973	1013	1208	1051	1091	1583	1579	1572	1578
14:50:15	2747	32972	1026	1222	1066	1105	1613	1586	1552	1584
14:50:30	2855	32991	1039	1236	1080	1118	1595	1585	1549	1576
14:50:45	2838	32997	1053	1247	1092	1131	1576	1588	1541	1568
14:51:00	2918	32994	1064	1259	1104	1142	1615	1607	1531	1584
14:51:15	2803	33009	1075	1270	1114	1153	1596	1596	1530	1574
14:51:30	2803	32992	1085	1279	1123	1162	1600	1578	1509	1562
14:51:45	2869	32999	1094	1287	1132	1171	1586	1611	1529	1575
14:52:00	2812	32991	1102	1296	1140	1179	1590	1576	1547	1571
14:52:15	2947	32994	1110	1303	1148	1187	1608	1586	1541	1578
14:52:30	2844	32987	1117	1310	1157	1195	1593	1605	1548	1582
14:52:45	2710	32999	1124	1316	1166	1202	1589	1593	1602	1595
14:53:00	2860	32997	1130	1323	1175	1209	1594	1594	1564	1584
14:53:15	2833	32990	1137	1328	1183	1216	1582	1586	1559	1576
14:53:30	2769	32985	1142	1333	1192	1222	1601	1580	1579	1587
14:53:45	2908	33016	1149	1338	1199	1229	1602	1566	1551	1573
14:54:00	2836	32992	1153	1341	1205	1233	1587	1580	1563	1577
14:54:15	2810	32989	1158	1344	1212	1238	1598	1596	1579	1591
14:54:30	2775	33010	1162	1348	1219	1243	1585	1599	1580	1588
14:54:45	2866	32994	1166	1351	1226	1248	1604	1596	1558	1586
14:55:00	2818	32998	1170	1355	1231	1252	1604	1590	1582	1592
14:55:15	2780	33005	1174	1358	1237	1256	1621	1596	1546	1588
14:55:30	2937	33000	1180	1362	1241	1261	1628	1600	1518	1582
14:55:45	2878	32996	1185	1366	1244	1265	1617	1603	1508	1576
14:56:00	2792	33005	1190	1370	1247	1269	1589	1611	1472	1557
14:56:15	2772	33010	1194	1375	1248	1272	1609	1610	1480	1566
14:56:30	2793	33006	1197	1379	1250	1275	1622	1605	1442	1556
14:56:45	2769	33007	1201	1383	1250	1278	1617	1602	1462	1560
14:57:00	2844	32997	1205	1385	1251	1280	1588	1599	1504	1564
14:57:15	2803	33007	1207	1388	1253	1283	1567	1590	1492	1550
14:57:30	2925	33007	1209	1390	1256	1285	1579	1586	1502	1556
14:57:45	2823	32988	1210	1393	1259	1287	1591	1605	1599	1598
14:58:00	2972	32991	1213	1397	1265	1292	1601	1610	1596	1602
14:58:15	2781	33001	1215	1402	1271	1296	1589	1619	1573	1594
14:58:30	2719	32997	1218	1407	1276	1300	1597	1617	1559	1591
14:58:45	2746	33007	1222	1411	1280	1304	1597	1626	1544	1589
14:59:00	2890	33011	1223	1416	1283	1307	1557	1636	1518	1570

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14:59:15	2750	33007	1224	1419	1284	1309	1551	1626	1544	1574
14:59:30	2773	32995	1225	1423	1286	1311	1613	1615	1546	1591
14:59:45	2813	33029	1227	1426	1288	1314	1603	1624	1520	1582
15:00:00	2865	33010	1229	1429	1290	1316	1576	1631	1511	1573
15:00:15	2915	33012	1231	1432	1291	1318	1590	1609	1518	1572
15:00:30	2809	33028	1232	1433	1293	1319	1588	1631	1518	1579
15:00:45	2885	33026	1234	1435	1294	1321	1590	1624	1497	1570
15:01:00	2832	33001	1235	1437	1295	1322	1589	1600	1496	1562
15:01:15	2865	33027	1237	1438	1296	1324	1583	1609	1527	1573
15:01:30	2653	32998	1237	1439	1297	1324	1611	1614	1515	1580
15:01:45	2836	32993	1239	1440	1299	1326	1611	1599	1536	1582
15:02:00	2725	33003	1242	1441	1301	1328	1582	1616	1501	1566
15:02:15	2871	33015	1243	1443	1303	1330	1580	1624	1458	1554
15:02:30	2729	33033	1243	1445	1304	1331	1604	1608	1496	1569
15:02:45	2899	33007	1245	1447	1305	1332	1595	1602	1469	1555
15:03:00	2856	32979	1245	1447	1305	1332	1558	1631	1506	1565
15:03:15	2746	33012	1246	1449	1306	1334	1563	1626	1483	1557
15:03:30	2834	33026	1245	1452	1307	1335	1570	1621	1459	1550
15:03:45	2905	33026	1245	1453	1307	1335	1571	1624	1459	1551
15:04:00	2818	33031	1246	1454	1307	1336	1571	1606	1479	1552
15:04:15	2980	33011	1246	1455	1307	1336	1587	1600	1484	1557
15:04:30	2842	33003	1247	1454	1307	1336	1563	1620	1485	1556
15:04:45	2997	33003	1247	1455	1308	1337	1571	1599	1487	1552
15:05:00	2799	33021	1247	1454	1309	1337	1571	1593	1487	1550
15:05:15	2979	33004	1247	1455	1310	1337	1560	1625	1464	1550
15:05:30	2808	33003	1246	1457	1310	1338	1556	1613	1463	1544
15:05:45	2908	33003	1247	1458	1310	1338	1582	1614	1442	1546
15:06:00	2898	33014	1246	1458	1309	1338	1573	1613	1430	1539
15:06:15	2878	33009	1245	1459	1309	1338	1531	1624	1460	1538
15:06:30	2878	33035	1245	1460	1308	1338	1532	1606	1458	1532
15:06:45	2889	33028	1243	1460	1308	1337	1541	1590	1446	1526
15:07:00	2811	33048	1242	1459	1308	1336	1540	1602	1445	1529
15:07:15	2824	33018	1240	1459	1309	1336	1521	1627	1499	1549
15:07:30	2830	33018	1238	1462	1310	1337	1542	1630	1497	1556
15:07:45	2780	33015	1238	1463	1311	1337	1555	1605	1491	1550
15:08:00	2986	33033	1238	1463	1313	1338	1539	1612	1507	1553
15:08:15	2646	33007	1237	1464	1316	1339	1549	1632	1509	1563
15:08:30	2859	33031	1237	1465	1319	1340	1594	1629	1503	1575

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15:08:45	2823	33047	1240	1466	1321	1342	1614	1643	1586	1614
15:09:00	2929	33035	1243	1468	1325	1345	1601	1648	1598	1616
15:09:15	2869	33019	1248	1471	1330	1350	1625	1643	1605	1624
15:09:30	2852	33014	1251	1472	1335	1353	1626	1635	1579	1613
15:09:45	2833	33048	1255	1473	1339	1356	1652	1631	1608	1630
15:10:00	2680	33041	1260	1473	1342	1358	1648	1638	1590	1625
15:10:15	2914	33032	1264	1474	1345	1361	1636	1628	1580	1615
15:10:30	2768	33036	1268	1474	1348	1363	1588	1632	1596	1605
15:10:45	2984	33040	1269	1475	1351	1365	1586	1644	1605	1612
15:11:00	2768	33047	1269	1476	1354	1366	1604	1633	1595	1611
15:11:15	2756	33042	1271	1477	1357	1368	1607	1624	1595	1609
15:11:30	2959	33049	1271	1476	1359	1369	1580	1623	1587	1597
15:11:45	2944	33035	1272	1476	1361	1370	1572	1626	1597	1598
15:12:00	2897	33012	1271	1475	1364	1370	1591	1622	1562	1592
15:12:15	2869	33021	1271	1475	1366	1371	1602	1627	1553	1594
15:12:30	2930	33034	1272	1475	1366	1371	1611	1630	1540	1594
15:12:45	2797	33032	1273	1475	1367	1372	1618	1634	1556	1603
15:13:00	2875	33017	1274	1476	1367	1372	1583	1634	1561	1593
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15:13:30	2833	33032	1264	1455	1360	1360	1049	914	872	945
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15:14:00	2717	33036	1217	1394	1318	1310	849	632	613	698
15:14:15	2778	33039	1192	1366	1293	1284	801	558	552	637
15:14:30	2829	33038	1167	1338	1269	1258	762	506	510	593
15:14:45	2875	33036	1143	1311	1248	1234	722	472	476	557
15:15:00	2912	33055	1120	1284	1227	1210	697	444	453	531
15:15:15	2938	33035	1097	1258	1205	1187	675	423	434	511
15:15:30	2964	33041	1076	1233	1183	1164	652	399	418	490
15:15:45	2980	33025	1055	1210	1160	1142	637	383	404	475
15:16:00	2918	33019	1033	1190	1138	1120	618	368	393	460
15:16:15	2904	33027	1014	1171	1117	1101	608	355	384	449
15:16:30	2905	33036	995	1151	1095	1080	594	349	372	438
15:16:45	2902	33045	977	1130	1074	1060	582	344	361	429
15:17:00	2895	33026	959	1108	1054	1040	568	332	356	419
15:17:15	2882	33049	942	1087	1034	1021	558	324	349	410
15:17:30	2862	33034	925	1066	1015	1002	548	321	341	403
15:17:45	2839	33023	910	1046	997	984	537	316	334	396
15:18:00	2820	33037	895	1026	979	967	525	313	327	388

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15:18:15	2789	33049	880	1006	961	949	515	305	320	380
15:18:30	2751	33046	865	987	944	932	505	296	315	372
15:18:45	2718	33046	851	969	928	916	494	289	309	364
15:19:00	2679	33043	837	951	912	900	486	279	302	356
15:19:15	2798	33004	824	933	896	884	477	272	298	349
15:19:30	2747	32996	812	917	882	870	467	265	294	342
15:19:45	2719	33007	799	900	867	855	458	257	287	334
15:20:00	2701	33016	787	884	853	841	451	256	282	330
15:20:15	2694	33009	775	869	839	828	443	252	274	323
15:20:30	2697	33019	764	854	826	815	435	249	268	317
15:20:45	2686	33023	753	839	813	802	427	243	263	311
15:21:00	2702	32999	742	825	801	789	422	239	259	307
15:21:15	2761	33014	732	811	789	777	415	234	256	302
15:21:30	2716	32999	722	799	777	766	410	231	253	298
15:21:45	2692	33017	712	786	765	754	405	229	249	294
15:22:00	2763	32995	702	773	754	743	396	228	246	290
15:22:15	2821	33006	693	761	743	732	392	227	243	287
15:22:30	2810	32967	684	749	732	722	384	222	239	282
15:22:45	2731	32997	675	738	722	712	381	216	237	278
15:23:00	2773	32955	666	726	712	701	375	214	234	274
15:23:15	2810	32977	657	715	702	691	371	209	231	270
15:23:30	2816	33005	649	705	693	682	368	204	229	267
15:23:45	2818	32982	641	695	684	673	360	201	225	262
15:24:00	2803	33004	633	685	675	664	355	197	221	258
15:24:15	2796	32989	625	675	666	655	351	193	219	254
15:24:30	2799	32970	617	665	657	646	346	191	217	251
15:24:45	2802	32992	610	656	649	638	343	188	215	249
15:25:00	2870	32954	603	647	640	630	337	184	212	244
15:25:15	2862	32957	595	638	633	622	334	182	209	242
15:25:30	2854	32941	589	630	625	615	330	180	207	239
15:25:45	2840	32948	582	621	617	607	326	179	204	236
15:26:00	2830	32942	575	613	610	599	324	177	202	234
15:26:15	2814	32972	569	605	602	592	318	175	198	230
15:26:30	2802	32942	562	597	595	585	314	174	196	228
15:26:45	2799	32960	556	589	588	578	312	173	194	226
15:27:00	2802	32959	550	582	581	571	309	170	193	224
15:27:15	2831	32932	544	575	575	565	305	168	192	222
15:27:30	2708	32933	538	567	568	558	301	164	190	218

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15:27:45	2734	32938	532	560	562	551	298	161	189	216
15:28:00	2738	32906	527	554	556	546	294	159	187	213
15:28:15	2678	32922	521	546	549	539	245	167	175	196
15:28:30	2564	32919	455	473	514	481	110	122	136	123
15:28:45	2702	32845	347	373	431	384	78	92	123	98
15:29:00	2675	32808	266	298	356	307	69	79	113	87
15:29:15	2768	32766	208	241	296	248	64	71	102	79
15:29:30	2771	32737	166	198	247	204	62	68	96	75
15:29:45	2775	32734	136	166	209	170	60	66	94	73
15:30:00	2785	32705	115	143	179	146	58	64	91	71
15:30:15	2826	32653	100	125	156	127	57	62	87	69
15:30:30	2776	32645	89	111	137	112	56	61	85	67
15:30:45	2790	32654	81	101	123	102	56	60	83	66
15:31:00	2843	32629	75	92	112	93	55	60	82	66
15:31:15	2799	32626	71	85	103	86	55	59	81	65
15:31:30	2853	32597	67	80	97	81	55	58	82	65
15:31:45	2816	32599	65	76	92	78	55	58	81	65
15:32:00	2883	32544	63	72	88	74	55	58	80	64
15:32:15	2841	32570	62	70	84	72	55	57	79	64
15:32:30	2869	32522	61	68	82	70	55	57	78	63
15:32:45	2753	32521	60	66	80	69	55	57	77	63
15:33:00	2703	32536	59	65	79	68	55	57	76	63
15:33:15	2804	32524	58	63	78	66	55	57	75	62
15:33:30	2870	32516	58	62	77	66	54	56	74	61
15:33:45	2860	32500	58	61	76	65	54	56	74	61
15:34:00	2843	32495	57	60	75	64	53	56	73	61
15:34:15	2852	32503	57	60	74	64	54	56	73	61
15:34:30	2886	32479	57	59	73	63	54	56	72	61
15:34:45	2889	32502	56	58	73	62	53	55	72	60
15:35:00	2886	32497	56	58	72	62	53	55	71	60
15:35:15	2864	32460	56	58	71	62	53	55	71	60
15:35:30	2864	32499	56	57	71	61	53	55	69	59
15:35:45	2869	32401	56	57	71	61	54	55	68	59
15:36:00	2881	32457	56	57	70	61	54	55	69	59
15:36:15	2874	32461	56	57	69	61	53	55	67	58
15:36:30	2870	32449	55	56	69	60	53	55	67	58
15:36:45	2872	32466	56	57	68	60	53	55	66	58
15:37:00	2856	32450	55	56	68	60	53	55	64	57

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15:37:15	2857	32428	55	56	68	60	53	55	63	57
15:37:30	2855	32463	55	56	67	59	53	55	62	57
15:37:45	2865	32440	55	55	66	59	53	55	61	56
15:38:00	2893	32412	55	55	64	58	53	55	62	57
15:38:15	2773	32437	55	55	63	58	53	55	61	56
15:38:30	2779	32422	55	55	62	57	53	54	61	56
15:38:45	2812	32429	55	55	60	57	53	54	60	56
15:39:00	2811	32468	54	55	61	57	52	54	60	55
15:39:15	2811	32443	55	55	59	56	52	54	60	55
15:39:30	2819	32424	55	55	58	56	53	54	60	56
15:39:45	2812	32396	54	55	58	56	52	54	60	55
15:40:00	2803	32427	54	54	57	55	52	54	59	55
15:40:15	2800	32420	54	54	57	55	52	54	58	55
15:40:30	2798	32416	54	54	56	55	52	54	58	55
15:40:45	2798	32408	54	55	57	55	52	54	59	55
15:41:00	2801	32429	54	55	57	55	52	54	58	55
15:41:15	2815	32439	54	55	56	55	52	54	58	55
15:41:30	2903	32406	54	54	56	55	52	54	57	54
15:41:45	2895	32398	54	54	57	55	52	54	57	54
15:42:00	2880	32422	54	54	56	55	52	54	57	54
15:42:15	2882	32410	54	54	55	54	52	54	57	54
15:42:30	2887	32417	54	54	55	54	52	54	57	54
15:42:45	2884	32387	54	54	55	54	52	54	57	54
15:43:00	2880	32417	54	54	55	54	52	53	57	54



## Yarmouth Research and Technology, LLC

### Leakage Summary for Burn and Cool Down Periods

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All pressure transducers and thermocouples are in calibration per YRT's QA program.

External leakage was collected electronically.

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Test Duration:	60	min
Tank Water Loss:	576	ml
System Relief Water Collected:	570	ml
Calculated Water Loss:	6	ml
Average Leak Rate:	0.1	ml/min
Average Seal Circumference:	8.1	in
Allowable Leak Rate:	8.1	ml/min

<b>Was the Leakage Below the Allowable?</b>	<b>Yes</b>
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### Summary of Test Parameters During Burn and Cool Down Periods

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Amount of Time of Average Cal. Block > 1200 deg.:	20.3	min
Minimum Allowable Time at Temperature:	15	min
Average Cal. Block Temperature During Burn:	1140	F
Maximum Average Cal. Block Temperature During Burn:	1371	F
Minimum Average Cal. Block Temperature During Burn:	74	F
Average Flame Temperature During Burn:	1543	F
Maximum Average Flame Temperature During Burn:	1630	F
Minimum Average Flame Temperature During Burn:	144	F

*Notes*

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<b>Were Test Conditions Within Compliance?</b>	<b>Yes</b>
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# Yarmouth Research and Technology, LLC

## Depressurization - Repressurization Test Information

Customer: Garlock Pipeline Valve

Date: 3/24/2015

Product Code: 2 inch Class 1500 VCFS Gasket

Project Number: 215082

System pressure was lowered to 0 and then repressurized.

### *Operational Test Raw Data*

Time	Pressure (psig)	Average Block Temp-F
15:50:47	2804	68
15:51:02	2800	68
15:51:17	2792	68
15:51:32	2792	68
15:51:47	2786	68
15:52:02	2780	68
15:52:17	2791	68
15:52:32	2794	68
15:52:47	2792	68
15:53:02	2795	68
15:53:17	2790	68
15:53:32	2781	68
15:53:47	2781	68
15:54:02	2776	68
15:54:17	2779	68
15:54:32	2778	68
15:54:47	2771	68
15:55:02	2770	68
15:55:17	2768	68
15:55:32	2764	68
15:55:47	2759	68

*Leakage was collected manually.*

Total External Leakage Collected Over 5 Minute Duration:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Allowable Leak Rate:	8.1	ml/min

Was the Leakage Below the Allowable?	Yes
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