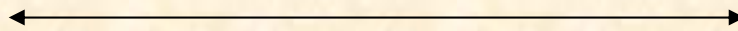


Fire Test Report
API Standard 6FB, Third Edition

Performed for

FMI spA

www.fmi-spa.com



Flexseals FGS3 Gasket

6 inch Class 300

Project Number: 210140
December 31, 2010



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY, LLC

434 Walnut Hill Road
North Yarmouth, ME 04097 USA
(207) 829-5359

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www.yarmouthresearch.com

Yarmouth Research and Technology, LLC

API 6FB FIRE TEST REPORT

Customer:	FMI spA	Date: 12/31/2010
Product Code:	6 inch Class 300 FGS3 Gasket	
	1.5mm thickness	
Project Number:	PN210140	
Test Specification:	API 6FB, Third Edition, Nov. 1998	
	Non-Bending, On-shore or Open-offshore Test	
Seal Area OD:	8.50	Seal Area ID: 6.50 inches
Mean Seal Diameter:	7.5 inches	ID of fire seal
Mean Circumference:	23.6 inches	
Allowable Leakage:	23.6 ml/min	
Nominal Test Pressure:	555 psig	
YRT Technician:	Matthew J. Wasielewski, P.E.	
	Version of YRT's FIRE-Control 6FB Software: A	
	Equipment Confirmed to be in Calibration to NIST Standards: Yes	

Burn and Cool Down Test

Burn Start Time:	9:55:00	
Burn / Cooldown Duration:	60	minutes
Average Pressure During Burn/Cooldown:	559	psig
Leak Rate During Burn/Cool Down:	2	ml/min
Allowable External Leak Rate:	23.6	ml/min
Amount of Time of Avg. Cal. Block > 1200 deg.:	20.5	minutes
Were Test Conditions Within Compliance?	Yes	
Was the Leakage Below the Allowable?	Yes	

Depressurization - Repressurization Test

Average Pressure During Test:	553	psig
Gasket Leak Rate:	0	ml/min
Allowable External Leak Rate:	23.6	ml/min
Was the Leakage Below the Allowable?	Yes	

Does the Gasket Pass or Fail API 6FB?	PASS
--	-------------

Witnesses

Matthew J. Wasielewski

Note:



Temperature verses Time Chart

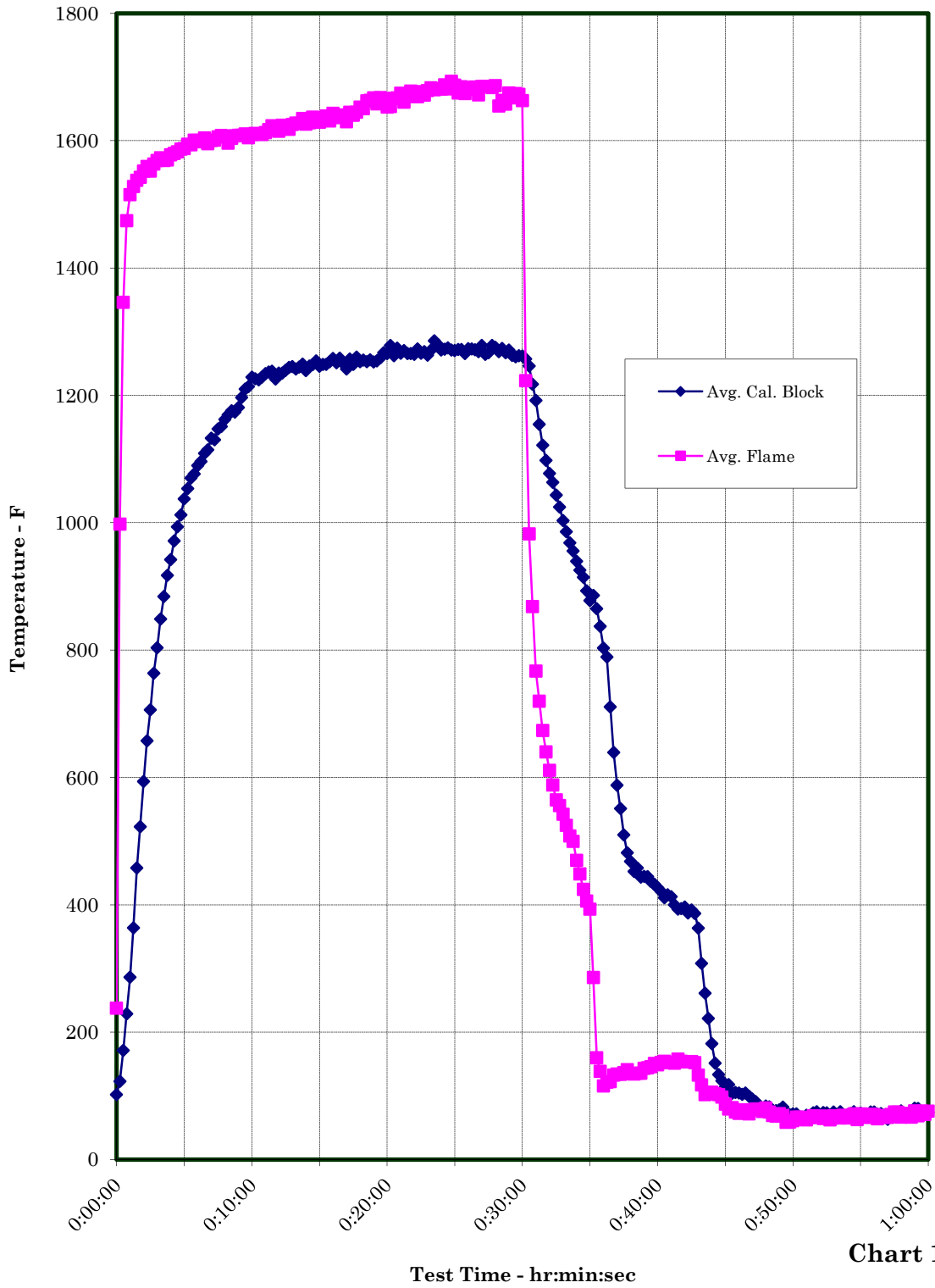


Chart 1

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Pressure versus Time Chart

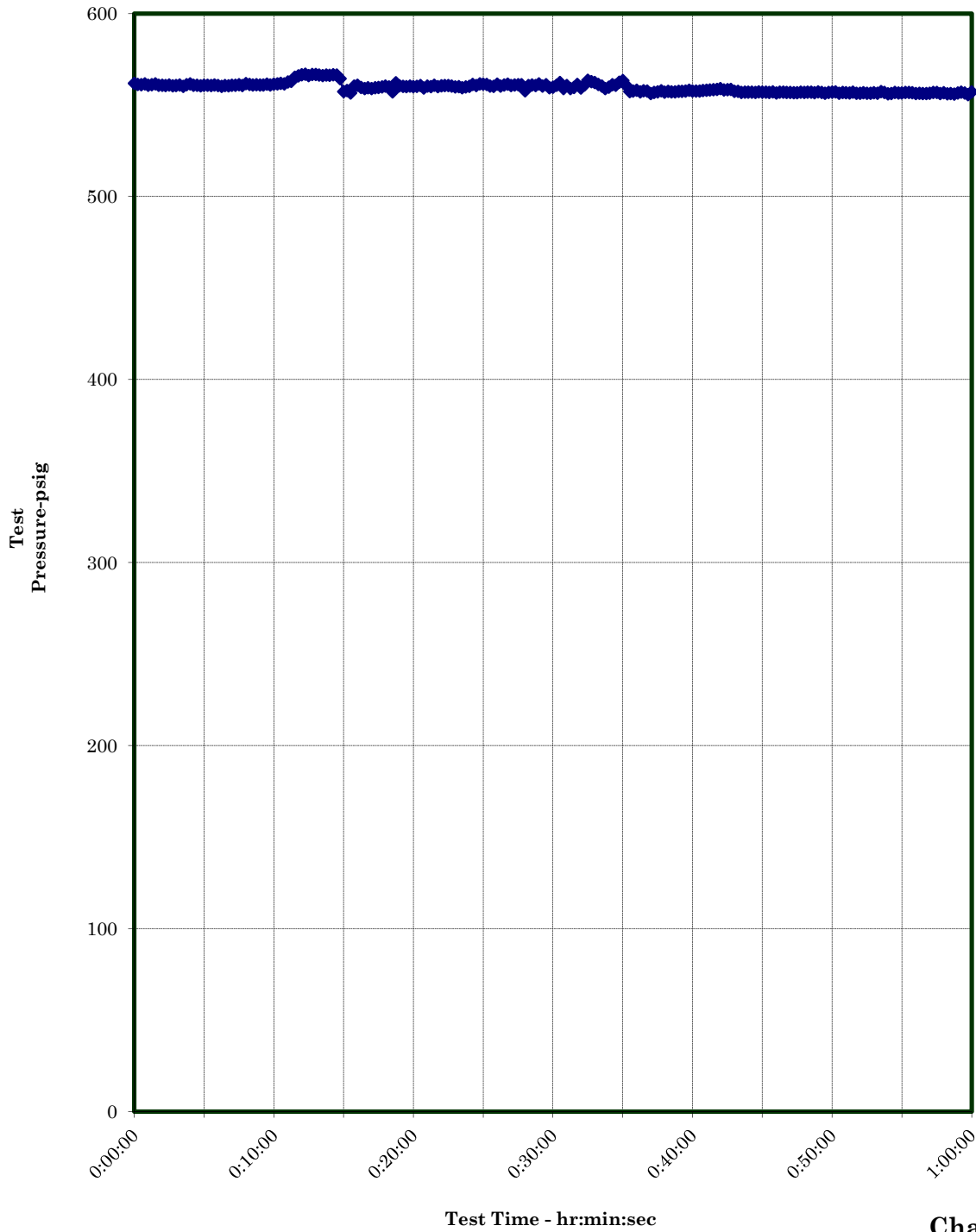


Chart 2

Yarmouth Research and Technology, LLC



Gasket Before Test

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Gasket Fire Test

Yarmouth Research and Technology, LLC



Gasket After Test

Yarmouth Research and Technology, LLC

Fire Test Information

Customer: FMI spA

Date: 12/31/2010

Product Code: 6 inch Class 300 FGS3 Gasket

Project Number: PN210140

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	Cal. 4 Block Temp - F	Average Block Temp - F	Flame 1 Temp - F	Flame 2 Temp - F	Flame 3 Temp - F	Flame 4 Temp - F	Average Flame Temp - F
9:55:00	562	21257	65	71	162	110	102	143	323	249	236	238
9:55:15	561	21293	85	102	186	119	123	948	1253	1090	700	998
9:55:30	561	21282	114	196	216	160	172	1451	1564	1367	1003	1346
9:55:45	562	21248	197	249	258	212	229	1646	1648	1464	1139	1474
9:56:00	561	21297	215	321	321	288	286	1701	1666	1484	1210	1515
9:56:15	561	21253	257	417	415	367	364	1713	1672	1483	1244	1528
9:56:30	562	21276	370	487	524	450	458	1715	1677	1488	1271	1538
9:56:45	561	21287	426	526	614	524	523	1716	1682	1490	1281	1542
9:57:00	561	21328	503	590	692	590	594	1741	1686	1487	1295	1552
9:57:15	561	21255	578	656	756	640	658	1738	1691	1489	1319	1559
9:57:30	561	21206	623	703	817	681	706	1723	1699	1483	1303	1552
9:57:45	560	21290	698	766	867	724	764	1756	1711	1484	1302	1563
9:58:00	561	21250	745	797	913	759	804	1762	1715	1490	1308	1569
9:58:15	561	21309	789	858	955	793	849	1760	1726	1483	1323	1573
9:58:30	560	21331	835	885	995	822	884	1755	1729	1483	1308	1569
9:58:45	561	21329	899	932	1008	831	918	1754	1720	1490	1315	1570
9:59:00	561	21262	909	957	1068	835	942	1755	1729	1490	1337	1578
9:59:15	561	21358	932	996	1098	859	971	1773	1725	1491	1331	1580
9:59:30	561	21289	941	1031	1116	887	994	1778	1733	1490	1328	1582
9:59:45	560	21408	985	1044	1142	878	1012	1775	1726	1502	1343	1587
10:00:00	561	21283	1014	1069	1175	891	1037	1800	1736	1474	1341	1588
10:00:15	561	21331	1027	1110	1171	906	1054	1802	1739	1492	1345	1595
10:00:30	561	21361	1033	1128	1197	922	1070	1792	1734	1489	1359	1594
10:00:45	561	21278	1031	1133	1204	938	1077	1795	1730	1507	1371	1601
10:01:00	561	21344	1043	1149	1221	946	1090	1798	1737	1493	1374	1601
10:01:15	560	21393	1019	1166	1244	955	1096	1813	1724	1497	1359	1598
10:01:30	561	21352	1021	1196	1253	965	1109	1814	1735	1486	1382	1604

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10:01:45	560	21369	1018	1195	1270	975	1115	1802	1732	1480	1367	1595
10:02:00	561	21364	1046	1227	1284	975	1133	1804	1741	1468	1389	1601
10:02:15	561	21360	1021	1233	1284	983	1130	1791	1741	1491	1380	1601
10:02:30	561	21410	1048	1233	1314	994	1147	1813	1754	1471	1386	1606
10:02:45	561	21352	1050	1241	1308	1006	1151	1815	1746	1475	1396	1608
10:03:00	562	21378	1060	1264	1306	1018	1162	1815	1742	1483	1389	1607
10:03:15	561	21390	1055	1270	1330	1023	1170	1800	1732	1453	1399	1596
10:03:30	561	21416	1065	1275	1331	1032	1176	1813	1737	1477	1388	1604
10:03:45	561	21434	1076	1284	1331	1003	1174	1804	1736	1486	1404	1608
10:04:00	561	21418	1065	1269	1329	1061	1181	1810	1753	1458	1412	1608
10:04:15	561	21411	1060	1295	1337	1094	1197	1804	1748	1475	1407	1609
10:04:30	561	21426	1103	1295	1333	1109	1210	1810	1746	1479	1407	1611
10:04:45	561	21347	1059	1319	1353	1123	1214	1794	1755	1471	1399	1605
10:05:00	561	21434	1103	1324	1363	1124	1229	1793	1752	1484	1409	1610
10:05:15	561	21481	1082	1322	1384	1117	1226	1813	1741	1477	1414	1611
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10:06:00	563	21686	1100	1334	1366	1136	1234	1784	1755	1498	1413	1613
10:06:15	563	21664	1118	1320	1369	1139	1237	1787	1737	1512	1434	1618
10:06:30	565	21931	1112	1334	1370	1136	1238	1827	1736	1519	1412	1624
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10:07:00	567	22138	1117	1334	1379	1110	1235	1794	1733	1514	1419	1615
10:07:15	567	22081	1111	1337	1383	1109	1235	1793	1741	1545	1417	1624
10:07:30	566	22055	1103	1336	1397	1121	1239	1801	1732	1543	1406	1621
10:07:45	567	22264	1111	1349	1377	1138	1244	1787	1738	1537	1409	1618
10:08:00	567	22393	1112	1346	1373	1150	1245	1788	1740	1544	1430	1626
10:08:15	566	22129	1089	1346	1384	1147	1242	1780	1739	1566	1426	1628
10:08:30	566	22272	1105	1353	1391	1128	1244	1797	1742	1555	1414	1627
10:08:45	566	22294	1113	1351	1408	1124	1249	1800	1756	1566	1417	1635
10:09:00	566	22315	1096	1339	1399	1122	1239	1788	1745	1561	1410	1626
10:09:15	567	22369	1100	1354	1405	1125	1246	1795	1735	1556	1426	1628
10:09:30	566	22341	1103	1349	1389	1151	1248	1801	1754	1574	1419	1637
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10:10:00	557	22316	1088	1352	1397	1145	1246	1772	1742	1570	1431	1629
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10:10:30	556	22101	1096	1352	1405	1142	1249	1804	1752	1570	1428	1639
10:10:45	560	23152	1098	1357	1410	1146	1253	1776	1722	1584	1442	1631
10:11:00	561	22666	1118	1356	1418	1140	1258	1787	1721	1605	1458	1643

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10:11:15	560	22543	1103	1360	1404	1137	1251	1786	1725	1598	1435	1636
10:11:30	559	22314	1121	1356	1418	1139	1259	1761	1733	1611	1453	1640
10:11:45	559	22305	1103	1359	1401	1137	1250	1785	1736	1595	1446	1641
10:12:00	559	22258	1075	1359	1399	1133	1242	1768	1730	1582	1438	1630
10:12:15	559	22307	1105	1359	1429	1136	1257	1772	1732	1631	1443	1645
10:12:30	560	22323	1100	1358	1401	1135	1249	1787	1737	1602	1434	1640
10:12:45	560	22307	1106	1360	1443	1131	1260	1783	1737	1623	1436	1645
10:13:00	560	22404	1104	1359	1420	1129	1253	1792	1740	1621	1458	1653
10:13:15	560	22273	1101	1358	1436	1126	1255	1804	1743	1594	1459	1650
10:13:30	557	21970	1105	1362	1415	1130	1253	1817	1745	1613	1475	1663
10:13:45	562	22179	1103	1370	1418	1132	1256	1811	1743	1613	1486	1663
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10:14:15	560	21716	1115	1358	1409	1135	1254	1818	1747	1610	1457	1658
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10:14:45	560	22328	1124	1375	1436	1132	1267	1837	1730	1604	1492	1666
10:15:00	560	22253	1138	1360	1432	1132	1266	1810	1734	1598	1469	1653
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10:15:30	561	22318	1117	1366	1431	1135	1262	1819	1735	1638	1473	1666
10:15:45	559	22321	1158	1363	1439	1136	1274	1809	1740	1626	1494	1667
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10:16:30	561	22289	1128	1368	1427	1139	1266	1822	1734	1639	1495	1673
10:16:45	560	22347	1124	1370	1430	1139	1266	1825	1747	1658	1482	1678
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10:17:15	561	22327	1136	1372	1447	1137	1273	1800	1731	1646	1499	1669
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10:17:45	560	22325	1116	1362	1449	1148	1269	1811	1742	1645	1488	1672
10:18:00	560	22243	1125	1363	1413	1152	1263	1813	1747	1668	1487	1679
10:18:15	560	22313	1139	1368	1423	1154	1271	1837	1749	1643	1503	1683
10:18:30	559	23017	1178	1366	1437	1161	1286	1826	1733	1657	1503	1680
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10:20:15	561	22297	1122	1363	1449	1154	1272	1779	1745	1666	1509	1675
10:20:30	560	22247	1131	1359	1444	1154	1272	1819	1741	1669	1510	1685

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10:20:45	560	22338	1101	1365	1445	1152	1266	1797	1738	1652	1509	1674
10:21:00	561	22291	1149	1354	1435	1156	1274	1792	1743	1666	1521	1681
10:21:15	560	22312	1142	1355	1439	1156	1273	1791	1738	1684	1518	1683
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10:22:00	561	22254	1137	1373	1440	1163	1278	1812	1745	1682	1501	1685
10:22:15	561	22344	1113	1353	1434	1157	1264	1794	1747	1679	1521	1685
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10:22:45	561	22227	1125	1360	1466	1163	1279	1792	1732	1673	1536	1683
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10:23:15	561	21172	1108	1355	1445	1167	1269	1735	1684	1685	1514	1655
10:23:30	561	23932	1128	1358	1444	1165	1274	1741	1734	1672	1506	1663
10:23:45	561	22714	1106	1359	1438	1164	1267	1715	1727	1661	1527	1658
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10:24:30	561	22308	1082	1353	1446	1162	1261	1751	1729	1684	1532	1674
10:24:45	559	21448	1096	1353	1442	1158	1262	1759	1741	1673	1518	1673
10:25:00	560	21612	1089	1356	1445	1157	1262	1744	1721	1667	1520	1663
10:25:15	561	20768	1079	1355	1442	1152	1257	1352	1252	1083	1206	1223
10:25:30	562	23694	1091	1346	1420	1127	1246	1099	1015	824	992	983
10:25:45	559	21951	1060	1328	1385	1097	1218	962	915	706	890	868
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10:26:30	560	21370	985	1270	1299	933	1122	727	747	530	691	674
10:26:45	561	20951	964	1241	1274	913	1098	695	723	499	643	640
10:27:00	559	22577	949	1217	1246	897	1077	665	694	471	615	611
10:27:15	561	22584	955	1192	1224	882	1063	647	664	452	590	588
10:27:30	563	23028	921	1186	1199	867	1043	638	636	439	546	565
10:27:45	563	21887	892	1174	1181	852	1025	644	627	420	533	556
10:28:00	562	21481	874	1145	1162	832	1003	615	609	415	530	542
10:28:15	561	22081	861	1117	1146	820	986	599	596	401	503	525
10:28:30	560	22801	853	1095	1123	803	969	564	574	385	509	508
10:28:45	559	21969	842	1077	1108	795	956	560	583	370	486	500
10:29:00	560	20935	823	1058	1084	793	940	505	546	365	464	470
10:29:15	561	21917	817	1022	1062	801	926	473	490	363	469	449
10:29:30	561	22072	808	1027	1042	781	915	449	443	355	450	424
10:29:45	562	21901	785	996	1024	767	893	418	420	346	440	406
10:30:00	563	22920	789	980	1003	739	878	391	387	343	451	393

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10:30:15	561	21705	769	972	984	819	886	325	342	316	160	286
10:30:30	557	21417	741	938	966	815	865	129	255	130	126	160
10:30:45	558	21462	678	936	927	808	837	102	136	168	149	139
10:31:00	558	21501	664	907	903	739	803	102	113	134	114	116
10:31:15	557	21377	641	895	881	739	789	102	105	141	139	122
10:31:30	558	21286	610	818	842	574	711	94	97	131	168	123
10:31:45	558	21385	615	754	731	458	640	104	99	129	198	133
10:32:00	556	21365	596	732	664	360	588	120	96	123	199	135
10:32:15	557	21387	580	717	614	293	551	95	97	134	210	134
10:32:30	557	21363	567	669	566	238	510	103	94	122	227	137
10:32:45	558	21250	569	640	522	196	482	121	91	118	234	141
10:33:00	557	21332	563	617	494	199	468	99	100	101	240	135
10:33:15	557	21263	558	606	480	166	453	106	93	94	245	135
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10:33:45	557	21406	531	591	494	157	443	117	93	87	246	136
10:34:00	557	21287	534	582	502	161	445	143	89	85	256	143
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10:34:45	558	21371	505	563	501	160	432	129	87	120	267	151
10:35:00	558	21481	508	550	496	154	427	110	83	137	266	149
10:35:15	558	21397	491	549	490	154	421	123	82	140	265	153
10:35:30	558	21367	493	523	485	144	411	126	86	141	265	155
10:35:45	558	21368	485	553	480	145	416	131	81	147	250	152
10:36:00	558	21455	480	530	473	169	413	120	84	151	255	153
10:36:15	558	21396	461	516	470	153	400	125	81	153	247	152
10:36:30	558	21419	450	508	463	152	393	134	80	153	264	158
10:36:45	559	21444	444	509	458	166	394	135	85	153	245	155
10:37:00	559	21486	457	497	452	180	397	123	84	158	249	154
10:37:15	558	21476	455	484	449	161	387	129	78	155	252	154
10:37:30	558	21509	449	497	445	177	392	136	80	156	243	154
10:37:45	559	21460	435	490	439	181	386	126	80	156	247	152
10:38:00	557	21354	457	414	415	168	364	127	125	142	137	133
10:38:15	557	21307	349	382	341	160	308	94	134	141	100	117
10:38:30	557	21217	249	343	295	158	261	59	109	149	90	102
10:38:45	557	21258	199	307	239	142	222	83	105	124	111	106
10:39:00	557	21261	156	242	194	136	182	87	89	136	111	106
10:39:15	557	21196	126	198	160	122	152	101	90	110	112	103
10:39:30	557	21246	123	149	135	127	134	88	87	111	122	102

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10:39:45	557	21254	130	148	123	94	124	99	83	101	110	98
10:40:00	557	21236	119	130	106	101	114	84	96	110	59	87
10:40:15	557	21236	123	130	105	113	118	70	88	95	64	79
10:40:30	557	21156	106	119	96	96	104	75	81	92	78	82
10:40:45	557	21238	100	120	96	106	106	64	75	111	49	75
10:41:00	557	21178	94	120	101	103	105	69	81	81	59	73
10:41:15	557	21171	85	118	99	108	103	84	87	84	58	78
10:41:30	557	21210	107	107	98	106	105	74	78	83	58	73
10:41:45	557	21203	87	101	96	114	100	71	79	81	56	72
10:42:00	557	21150	91	104	92	94	95	76	84	90	63	78
10:42:15	557	21157	87	94	83	100	91	83	68	84	82	79
10:42:30	557	21180	84	86	84	78	83	82	67	76	92	79
10:42:45	557	21171	71	91	84	72	80	74	69	78	81	76
10:43:00	557	21198	80	95	83	79	84	78	80	76	91	81
10:43:15	557	21221	84	92	79	77	83	72	74	73	80	75
10:43:30	557	21195	70	88	78	72	77	60	74	71	72	69
10:43:45	557	21215	69	89	82	67	77	63	60	79	71	68
10:44:00	557	21137	87	79	79	67	78	74	57	75	83	72
10:44:15	557	21202	99	83	66	81	82	62	68	64	83	69
10:44:30	556	21149	71	65	77	59	68	60	63	70	41	59
10:44:45	557	21112	75	78	69	59	70	66	62	71	37	59
10:45:00	557	21179	81	74	66	66	72	56	69	64	56	61
10:45:15	557	21123	68	73	77	69	72	68	58	78	63	67
10:45:30	556	21100	76	77	52	58	66	77	69	63	57	67
10:45:45	557	21152	58	68	59	69	64	63	68	58	63	63
10:46:00	557	21117	61	79	59	79	70	55	66	68	60	62
10:46:15	557	21109	69	71	61	76	69	58	62	68	75	66
10:46:30	557	21138	71	80	76	67	74	63	74	72	66	69
10:46:45	556	21172	78	73	71	79	75	65	64	68	70	67
10:47:00	556	21201	62	71	71	69	68	58	62	72	82	69
10:47:15	557	21199	67	81	67	81	74	65	58	68	67	65
10:47:30	556	21162	66	82	64	81	73	66	60	67	78	68
10:47:45	556	21124	68	82	62	67	70	59	62	67	61	62
10:48:00	557	21168	76	77	65	81	75	65	62	71	77	69
10:48:15	556	21146	76	64	55	65	65	69	52	72	79	68
10:48:30	557	21085	78	83	70	69	75	46	76	68	72	66
10:48:45	557	21157	48	80	68	76	68	67	57	79	75	70
10:49:00	556	21169	77	69	61	71	70	67	54	74	66	65

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10:49:15	556	21188	65	74	70	80	72	69	57	65	73	66
10:49:30	557	21155	86	70	70	74	75	71	61	85	70	72
10:49:45	557	21204	69	63	52	84	67	65	53	67	66	63
10:50:00	557	21138	74	80	64	74	73	73	65	69	80	72
10:50:15	557	21113	60	76	62	80	70	72	60	76	61	67
10:50:30	557	21165	64	79	58	79	70	56	53	69	86	66
10:50:45	557	21111	74	68	65	91	75	68	62	64	91	71
10:51:00	556	21127	72	72	76	79	75	72	65	69	76	71
10:51:15	556	21219	73	73	67	72	71	67	56	63	71	64
10:51:30	556	21136	65	76	75	72	72	66	62	68	80	69
10:51:45	556	21159	68	66	69	76	70	67	58	70	72	67
10:52:00	556	21163	64	59	60	69	63	71	62	60	71	66
10:52:15	557	21102	56	68	67	90	70	75	66	64	78	71
10:52:30	557	21167	61	85	59	92	74	82	69	71	77	75
10:52:45	556	21165	74	69	71	78	73	84	68	63	82	74
10:53:00	557	21136	78	75	67	85	76	68	61	65	73	67
10:53:15	556	21124	71	69	65	79	71	71	62	69	74	69
10:53:30	556	21156	59	67	74	85	71	78	66	58	89	73
10:53:45	556	21168	69	69	74	73	71	67	57	71	72	67
10:54:00	556	21115	81	75	85	82	81	81	72	74	79	77
10:54:15	557	21158	86	78	71	86	80	65	59	62	89	69
10:54:30	557	21138	85	59	61	76	70	82	64	67	91	76
10:54:45	556	21220	80	64	63	82	72	65	65	67	86	71
10:55:00	557	21155	83	63	78	72	74	81	65	67	91	76

Yarmouth Research and Technology, LLC

Leakage Summary for Burn and Cool Down Periods

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

External leakage was collected electronically.

Test Duration:	60	minutes
Tank Water Loss:	102	
System Relief Water Collected:	0	mls
Calculated Water Loss:	102	
Average Leak Rate:	1.7	ml/min
Average Seal Circumference	23.6	inches
Allowable Leak Rate:	23.6	ml/min

Was the Leakage Below the Allowable?	Yes
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Summary of Test Parameters During Burn and Cool Down Periods

Amount of Time of Average Cal. Block > 1200 deg.:	20.5	minutes
Minimum Allowable Time at Temperature:	15	minutes
Average Cal. Block Temperature During Burn:	1130	deg. F
Maximum Average Cal. Block Temperature During Burn:	1286	deg. F
Minimum Average Cal. Block Temperature During Burn:	102	deg. F
Average Flame Temperature During Burn:	1611	deg. F
Maximum Average Flame Temperature During Burn:	1693	deg. F
Minimum Average Flame Temperature During Burn:	238	deg. F

Notes

Were Test Conditions Within Compliance?	Yes
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Yarmouth Research and Technology, LLC

Depressurization - Repressurization Test Information

Customer: FMI spA

Date: 12/31/2010

Product Code: 6 inch Class 300 FGS3 Gasket

Project Number: PN210140

System pressure was lowered to 0 and then repressurized.

Operational Test Raw Data

Time	Pressure (psig)	Average Block Temp-F
11:02:54	553	73
11:03:09	553	73
11:03:24	553	73
11:03:39	553	73
11:03:54	554	73
11:04:09	553	73
11:04:24	553	73
11:04:39	553	73
11:04:54	554	73
11:05:09	554	73
11:05:24	553	73
11:05:39	553	73
11:05:54	554	73
11:06:09	553	73
11:06:24	554	73
11:06:39	553	73
11:06:54	553	73
11:07:09	553	73
11:07:24	553	73
11:07:39	553	73
11:07:54	553	73

Leakage was collected manually.

Total External Leakage Collected Over 5 Minute Duration:	0	mls
Average Leak Rate Over 5 Minute Duration:	0.0	ml/min
Allowable Leak Rate:	23.6	ml/min

Was the Leakage Below the Allowable?	Yes
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