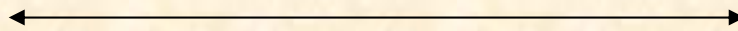


Fire Test Report
API Standard 6FB, Third Edition

Performed for

FMI spA

www.fmi-spa.com



**Flexwound Spiral-Wound Gasket with
Graphite Filler**
6 inch Class 300

Project Number: 210140
December 11, 2010



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY, LLC

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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: 12/11/2010
Product Code:	6 inch Class 300 Flexwound Spiral Wound Gasket	
	Graphite Filler	

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:	7.30	inches
Mean Seal Diameter:	7.9	inches	ID of fire seal	
Mean Circumference:	24.8	inches		
Allowable Leakage:	24.8	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:	9:42:00	
Burn / Cooldown Duration:	60	minutes
Average Pressure During Burn/Cooldown:	567	psig
Leak Rate During Burn/Cool Down:	1	ml/min
Allowable External Leak Rate:	24.8	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	

Depressurization - Repressurization Test

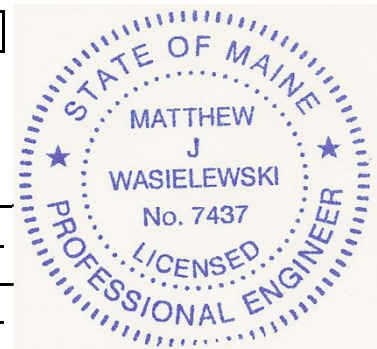
Average Pressure During Test:	567	psig
Gasket Leak Rate:	0	ml/min
Allowable External Leak Rate:	24.8	ml/min
Was the Leakage Below the Allowable?	Yes	

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

Witnesses

Matthew J. Wasielewski

Note:



Temperature verses Time Chart

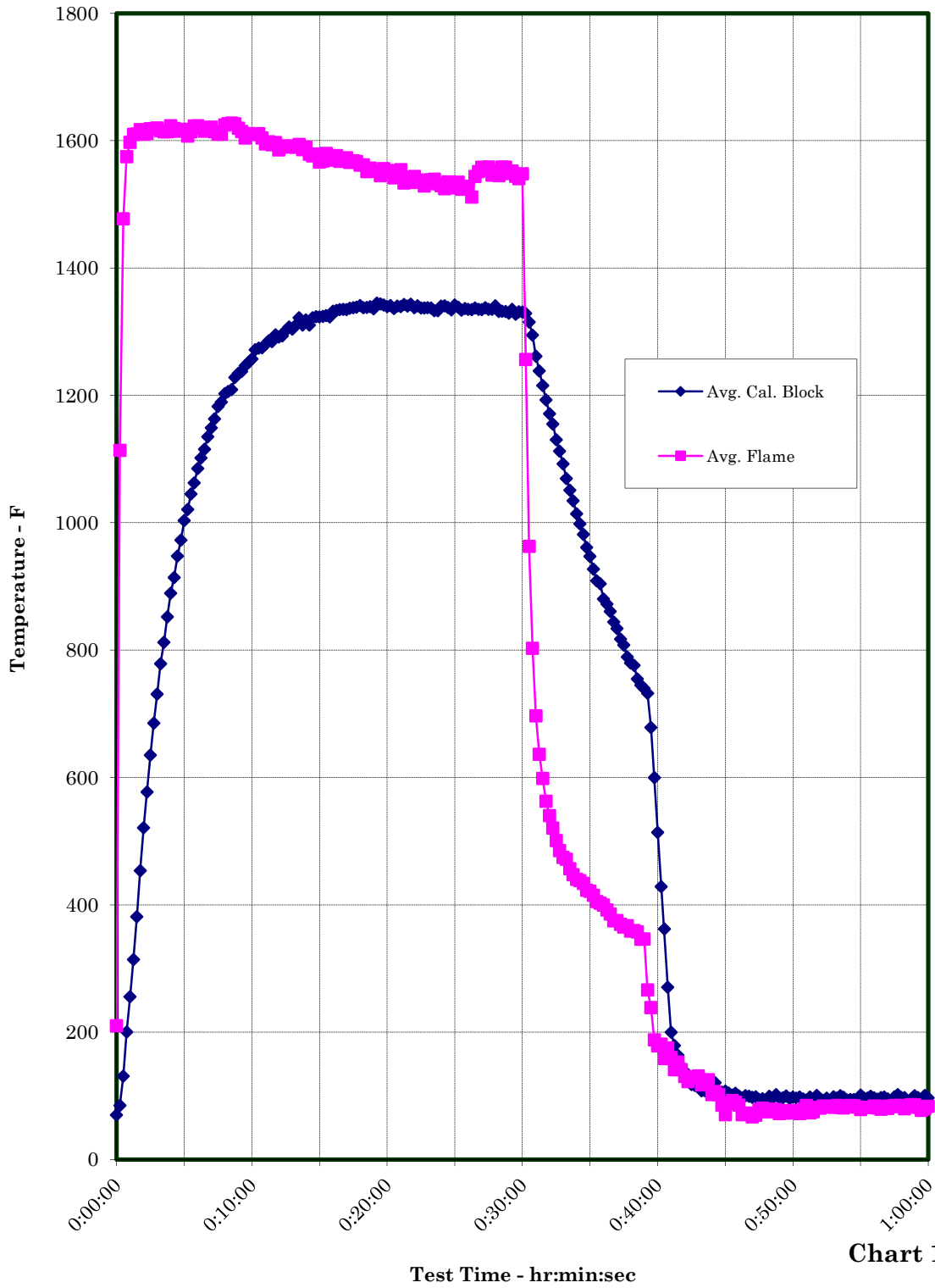


Chart 1

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Pressure versus Time Chart

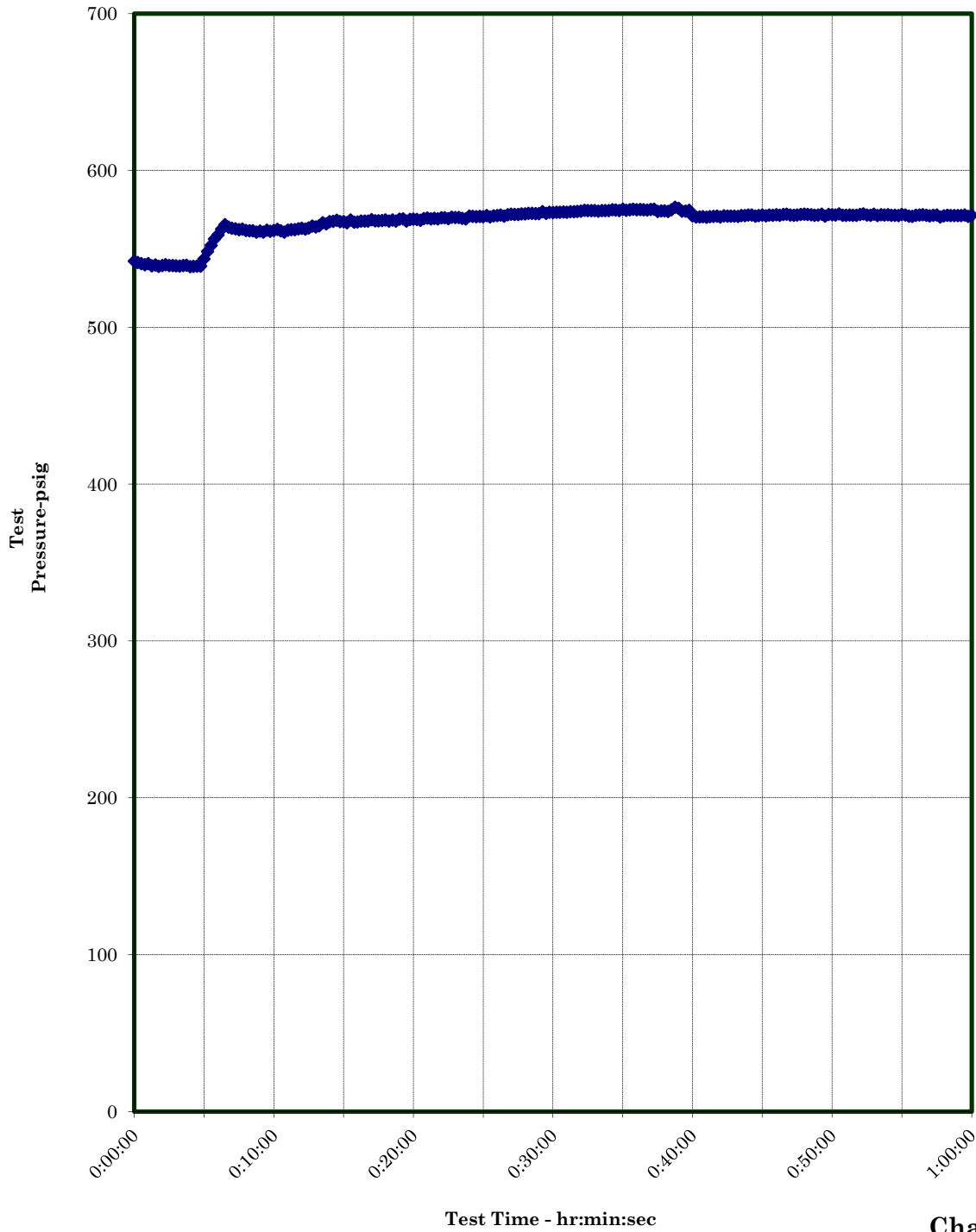


Chart 2

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Gasket Before Test

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Gasket Fire Test



Gasket After Test

Yarmouth Research and Technology, LLC

Fire Test Information

Customer: FMI spA

Date: 12/11/2010

Product Code: 6 inch Class 300 Spiral Wound 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
9:42:00	542	31446	100	63	60	57	70	413	117	59	252	210
9:42:15	541	31455	124	92	57	66	85	1353	1160	1175	766	1114
9:42:30	541	31404	149	163	98	114	131	1624	1519	1632	1134	1477
9:42:45	540	31388	226	236	163	176	200	1677	1594	1708	1320	1575
9:43:00	541	31441	289	289	229	215	256	1681	1583	1714	1412	1598
9:43:15	539	31427	334	362	283	277	314	1664	1606	1729	1439	1610
9:43:30	540	31434	393	415	348	369	381	1658	1618	1718	1449	1611
9:43:45	539	31409	463	472	417	463	454	1669	1614	1724	1462	1617
9:44:00	539	31480	511	522	495	556	521	1656	1611	1721	1453	1610
9:44:15	540	31392	552	581	537	639	577	1662	1606	1726	1451	1611
9:44:30	539	31491	599	633	594	715	635	1654	1614	1732	1474	1619
9:44:45	539	31451	645	672	655	769	685	1658	1619	1742	1455	1619
9:45:00	539	31457	694	719	691	820	731	1654	1628	1738	1460	1620
9:45:15	539	31459	739	759	748	868	779	1652	1614	1727	1470	1616
9:45:30	539	31416	769	795	776	908	812	1652	1621	1723	1460	1614
9:45:45	539	31439	804	833	826	946	852	1667	1635	1694	1459	1614
9:46:00	539	31494	844	869	864	980	889	1660	1647	1719	1467	1623
9:46:15	539	31465	864	897	883	1012	914	1642	1657	1720	1457	1619
9:46:30	539	31465	900	927	920	1043	948	1649	1644	1710	1457	1615
9:46:45	539	31410	928	956	935	1071	973	1646	1650	1710	1465	1618
9:47:00	544	31390	963	984	973	1093	1003	1667	1633	1700	1469	1617
9:47:15	548	31486	974	1018	976	1116	1021	1653	1639	1677	1460	1607
9:47:30	552	31481	998	1028	1014	1140	1045	1654	1645	1704	1452	1614
9:47:45	556	31486	1014	1054	1023	1159	1063	1657	1657	1712	1465	1623
9:48:00	559	31484	1035	1076	1053	1176	1085	1667	1660	1710	1457	1624
9:48:15	562	31469	1068	1087	1059	1193	1102	1661	1659	1701	1460	1620
9:48:30	565	31458	1079	1113	1061	1208	1115	1647	1641	1689	1482	1615

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9:48:45	564	31454	1090	1121	1104	1224	1135	1669	1653	1691	1452	1616
9:49:00	563	31461	1109	1140	1108	1239	1149	1659	1657	1721	1447	1621
9:49:15	563	31518	1123	1153	1129	1247	1163	1650	1664	1679	1462	1614
9:49:30	562	31511	1151	1158	1162	1259	1183	1630	1659	1703	1448	1610
9:49:45	562	31514	1157	1168	1161	1271	1189	1659	1636	1700	1445	1610
9:50:00	562	31477	1171	1179	1181	1280	1203	1668	1655	1731	1445	1625
9:50:15	562	31466	1172	1178	1186	1288	1206	1676	1657	1718	1456	1627
9:50:30	562	31495	1179	1187	1172	1298	1209	1670	1659	1713	1469	1628
9:50:45	561	31523	1190	1213	1203	1306	1228	1665	1658	1712	1470	1626
9:51:00	561	31488	1205	1217	1204	1313	1235	1656	1656	1708	1458	1620
9:51:15	561	31501	1213	1221	1199	1318	1238	1668	1664	1698	1428	1615
9:51:30	562	31523	1217	1230	1214	1325	1247	1645	1637	1705	1429	1604
9:51:45	561	31531	1232	1226	1219	1329	1252	1659	1658	1707	1420	1611
9:52:00	562	31522	1242	1231	1220	1335	1257	1664	1646	1699	1430	1610
9:52:15	562	31571	1245	1256	1247	1339	1272	1670	1654	1691	1425	1610
9:52:30	561	31538	1256	1241	1255	1345	1274	1654	1656	1701	1433	1611
9:52:45	561	31494	1256	1253	1242	1347	1275	1642	1650	1700	1424	1604
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9:53:15	562	31579	1277	1263	1251	1351	1286	1649	1652	1692	1399	1598
9:53:30	562	31619	1278	1253	1251	1355	1284	1644	1647	1682	1401	1594
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9:54:00	563	31635	1267	1269	1264	1367	1292	1648	1643	1667	1384	1586
9:54:15	562	31690	1286	1272	1249	1366	1293	1656	1635	1666	1410	1592
9:54:30	563	31751	1292	1266	1278	1369	1301	1647	1649	1674	1391	1590
9:54:45	565	31885	1295	1279	1284	1371	1307	1653	1637	1677	1393	1590
9:55:00	564	31736	1287	1266	1288	1375	1304	1653	1647	1670	1397	1592
9:55:15	565	31368	1296	1289	1280	1377	1311	1646	1626	1687	1399	1590
9:55:30	567	31835	1334	1268	1309	1376	1322	1672	1642	1687	1374	1594
9:55:45	566	31062	1296	1293	1271	1381	1310	1627	1642	1680	1395	1586
9:56:00	567	31190	1316	1285	1286	1386	1318	1654	1643	1679	1383	1590
9:56:15	567	31343	1297	1284	1276	1385	1311	1617	1642	1672	1384	1579
9:56:30	568	33748	1304	1287	1309	1387	1322	1642	1644	1659	1360	1576
9:56:45	567	32655	1319	1299	1286	1390	1324	1623	1656	1662	1375	1579
9:57:00	567	32434	1318	1298	1285	1391	1323	1628	1629	1649	1359	1566
9:57:15	567	32673	1310	1292	1301	1393	1324	1618	1622	1671	1360	1568
9:57:30	568	32415	1316	1290	1300	1395	1325	1640	1629	1668	1382	1580
9:57:45	567	32340	1324	1300	1270	1398	1323	1619	1643	1662	1355	1570
9:58:00	567	31217	1328	1301	1301	1399	1332	1625	1629	1661	1364	1570

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9:58:15	568	32386	1330	1301	1302	1401	1334	1628	1630	1662	1386	1577
9:58:30	568	32379	1331	1303	1302	1402	1335	1629	1628	1660	1353	1568
9:58:45	568	32382	1332	1304	1302	1403	1335	1622	1638	1653	1373	1572
9:59:00	568	32386	1326	1305	1303	1404	1335	1623	1643	1670	1357	1573
9:59:15	568	32384	1335	1305	1302	1405	1337	1631	1625	1643	1365	1566
9:59:30	568	32389	1337	1305	1303	1406	1338	1626	1621	1641	1385	1568
9:59:45	568	32398	1338	1305	1303	1407	1338	1618	1631	1646	1374	1567
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10:00:15	568	32401	1345	1309	1288	1408	1338	1623	1642	1651	1332	1562
10:00:30	568	32377	1340	1308	1294	1410	1338	1613	1617	1658	1318	1552
10:00:45	568	32395	1348	1302	1297	1411	1340	1616	1624	1650	1337	1557
10:01:00	569	32532	1338	1303	1293	1409	1336	1605	1634	1627	1341	1552
10:01:15	569	32386	1353	1310	1308	1408	1345	1613	1627	1643	1326	1552
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10:02:00	569	32392	1346	1305	1296	1410	1339	1617	1627	1642	1326	1553
10:02:15	569	32347	1350	1298	1307	1409	1341	1621	1627	1631	1328	1552
10:02:30	568	32425	1343	1300	1293	1409	1336	1600	1619	1606	1342	1542
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10:03:15	569	32447	1360	1304	1299	1408	1343	1606	1624	1605	1299	1534
10:03:30	569	32390	1354	1295	1302	1409	1340	1627	1624	1621	1296	1542
10:03:45	569	32423	1361	1298	1307	1407	1343	1599	1610	1624	1305	1535
10:04:00	570	32424	1352	1304	1287	1408	1338	1616	1621	1627	1311	1544
10:04:15	570	32416	1348	1303	1306	1406	1341	1628	1599	1608	1304	1535
10:04:30	569	32381	1347	1304	1289	1408	1337	1637	1610	1613	1293	1538
10:04:45	570	32502	1364	1297	1284	1404	1337	1598	1610	1606	1301	1529
10:05:00	570	32478	1352	1301	1293	1404	1338	1620	1619	1607	1291	1534
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10:05:45	569	32493	1367	1293	1268	1403	1333	1607	1629	1600	1292	1532
10:06:00	571	32356	1360	1295	1305	1401	1340	1618	1629	1583	1287	1529
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10:06:45	571	32421	1358	1294	1282	1402	1334	1628	1605	1621	1284	1535
10:07:00	570	32431	1375	1304	1290	1399	1342	1614	1599	1602	1288	1526
10:07:15	571	32385	1361	1306	1290	1397	1339	1629	1621	1611	1278	1535
10:07:30	570	32395	1365	1300	1275	1395	1334	1623	1615	1589	1268	1524

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10:07:45	571	32410	1370	1286	1293	1397	1337	1624	1607	1598	1283	1528
10:08:00	571	32384	1359	1302	1285	1394	1335	1633	1615	1599	1264	1528
10:08:15	572	32357	1363	1301	1279	1395	1335	1630	1605	1583	1228	1512
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10:10:15	573	32399	1370	1292	1280	1385	1332	1642	1599	1558	1381	1545
10:10:30	573	32411	1366	1294	1283	1386	1332	1651	1602	1599	1383	1559
10:10:45	572	32379	1379	1288	1277	1382	1332	1652	1584	1606	1391	1558
10:11:00	572	32380	1363	1300	1269	1384	1329	1663	1592	1573	1365	1548
10:11:15	574	32446	1373	1298	1287	1383	1335	1643	1598	1579	1389	1552
10:11:30	573	32398	1363	1300	1261	1385	1327	1652	1604	1559	1361	1544
10:11:45	573	32349	1374	1291	1279	1381	1331	1636	1608	1557	1360	1540
10:12:00	573	32440	1374	1297	1272	1381	1331	1645	1598	1593	1355	1548
10:12:15	573	32409	1367	1298	1271	1378	1329	1470	1230	1238	1087	1256
10:12:30	573	32429	1358	1280	1256	1366	1315	1125	929	899	899	963
10:12:45	574	32395	1330	1260	1249	1340	1295	914	761	744	793	803
10:13:00	573	32321	1292	1225	1221	1307	1261	770	672	641	704	697
10:13:15	574	32355	1279	1207	1189	1279	1239	702	619	573	652	637
10:13:30	574	32345	1253	1186	1171	1252	1216	661	590	530	613	599
10:13:45	574	32353	1228	1165	1152	1226	1193	619	563	498	571	563
10:14:00	574	32420	1217	1142	1124	1202	1171	593	543	474	550	540
10:14:15	574	32413	1203	1129	1107	1181	1155	580	530	456	516	521
10:14:30	574	32404	1179	1098	1081	1163	1130	540	529	441	493	501
10:14:45	574	32384	1166	1077	1065	1141	1112	534	507	422	478	485
10:15:00	574	32433	1143	1073	1033	1120	1092	514	507	411	466	475
10:15:15	574	32382	1116	1048	1014	1100	1070	520	498	404	465	472
10:15:30	574	32418	1105	1023	1001	1076	1051	494	497	395	441	457
10:15:45	574	32409	1084	1014	986	1054	1035	495	475	384	435	447
10:16:00	574	32394	1067	1002	952	1035	1014	485	484	377	415	440
10:16:15	575	32416	1041	982	955	1015	998	482	479	369	421	438
10:16:30	575	32375	1024	978	929	995	982	469	485	365	416	434
10:16:45	574	32355	998	952	918	976	961	465	466	357	404	423
10:17:00	575	32361	993	939	900	957	947	464	463	353	406	422

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10:17:15	575	32354	966	920	880	942	927	455	463	348	394	415
10:17:30	575	32400	941	918	853	923	909	449	445	346	381	405
10:17:45	575	32375	939	903	869	906	904	429	448	341	393	403
10:18:00	575	32388	917	883	832	890	881	440	446	337	376	400
10:18:15	575	32354	905	871	837	876	872	431	428	332	376	392
10:18:30	575	32342	893	871	819	860	861	427	429	327	359	386
10:18:45	575	32349	868	858	806	845	844	422	418	320	340	375
10:19:00	575	32356	860	845	797	833	834	416	422	317	347	376
10:19:15	575	32371	854	833	764	818	817	415	411	310	341	369
10:19:30	574	32126	831	829	766	805	808	411	400	308	342	365
10:19:45	574	32132	820	803	744	789	789	405	417	309	338	367
10:20:00	574	32023	811	797	731	780	780	403	396	301	335	359
10:20:15	574	32066	801	795	739	769	776	402	405	298	334	360
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10:20:45	576	32396	759	778	699	743	745	398	371	293	321	346
10:21:00	576	32397	764	769	693	734	740	398	382	286	319	346
10:21:15	574	32194	753	753	703	720	732	164	346	253	303	267
10:21:30	574	32025	620	732	657	705	679	194	308	160	293	239
10:21:45	574	31899	492	693	545	669	600	164	134	152	302	188
10:22:00	571	31596	351	644	446	613	514	126	142	149	298	179
10:22:15	570	31633	256	558	371	530	429	123	161	149	292	181
10:22:30	570	31551	198	503	310	437	362	87	129	128	290	159
10:22:45	570	31593	166	312	252	352	271	96	149	152	303	175
10:23:00	570	31561	163	152	198	286	200	81	136	139	285	160
10:23:15	571	31512	167	117	186	246	179	70	75	145	275	141
10:23:30	571	31536	156	110	175	213	164	75	113	144	280	153
10:23:45	571	31486	148	94	154	191	147	66	63	160	276	141
10:24:00	570	31490	145	79	143	169	134	76	57	110	279	131
10:24:15	571	31477	150	78	151	155	134	58	49	105	277	122
10:24:30	571	31439	129	64	135	143	118	75	73	103	260	128
10:24:45	571	31487	125	77	137	127	117	65	69	113	272	130
10:25:00	571	31459	134	94	120	119	117	80	77	106	263	132
10:25:15	571	31435	127	75	112	118	108	68	52	89	261	118
10:25:30	571	31443	128	89	106	108	108	63	68	100	260	123
10:25:45	571	31436	121	104	98	95	105	68	66	113	255	126
10:26:00	571	31417	120	84	124	99	107	72	88	94	154	102
10:26:15	572	31369	129	116	129	108	121	77	101	89	159	107
10:26:30	571	31434	126	88	110	102	107	71	95	80	161	102

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10:26:45	571	31443	123	97	105	99	106	75	96	84	87	86
10:27:00	572	31446	117	109	104	100	108	68	83	82	48	70
10:27:15	571	31454	117	100	101	100	105	70	88	85	111	89
10:27:30	571	31419	106	100	105	94	101	70	88	82	131	93
10:27:45	571	31460	114	104	102	96	104	66	93	80	121	90
10:28:00	572	31417	113	85	108	94	100	66	83	87	105	85
10:28:15	571	31399	99	97	97	93	97	71	83	87	41	71
10:28:30	572	31422	106	96	101	98	100	67	81	85	58	73
10:28:45	572	31449	106	98	96	98	100	66	78	86	62	73
10:29:00	571	31434	103	91	104	92	98	65	67	89	48	67
10:29:15	571	31459	105	94	104	92	99	66	65	88	59	70
10:29:30	571	31417	111	83	89	94	94	69	68	90	86	78
10:29:45	572	31417	108	90	91	94	96	69	70	92	92	81
10:30:00	572	31422	104	88	83	96	93	67	77	87	69	75
10:30:15	572	31439	108	99	98	93	100	67	70	90	74	75
10:30:30	572	31415	102	86	105	93	97	67	80	92	77	79
10:30:45	571	31442	113	99	103	92	102	65	78	88	84	79
10:31:00	572	31465	100	91	105	92	97	62	69	92	66	72
10:31:15	572	31415	107	100	89	92	97	65	82	90	71	77
10:31:30	571	31396	109	98	100	93	100	67	65	94	66	73
10:31:45	572	31459	91	99	104	90	96	66	67	90	74	74
10:32:00	572	31428	100	97	105	90	98	67	71	89	80	77
10:32:15	572	31401	99	100	94	93	97	66	72	89	72	75
10:32:30	572	31415	101	105	93	94	98	63	58	91	76	72
10:32:45	571	31507	104	95	93	89	95	65	77	92	83	79
10:33:00	571	31412	96	96	89	93	94	65	84	94	96	85
10:33:15	572	31408	102	95	104	91	98	67	73	89	65	74
10:33:30	571	31385	87	80	113	92	93	60	76	93	72	75
10:33:45	571	31360	100	97	113	92	101	63	87	92	85	82
10:34:00	572	31398	106	95	93	89	96	64	83	93	82	81
10:34:15	572	31386	107	93	81	91	93	63	89	91	93	84
10:34:30	572	31437	103	97	93	92	96	66	89	90	87	83
10:34:45	571	31392	94	95	88	89	92	65	96	91	81	83
10:35:00	572	31388	98	100	106	91	99	64	85	91	88	82
10:35:15	571	31415	88	98	107	92	96	67	93	90	90	85
10:35:30	572	31434	106	104	101	90	100	68	80	91	91	83
10:35:45	571	31371	100	96	104	91	98	63	91	89	81	81
10:36:00	572	31375	98	96	89	90	93	63	93	87	91	84

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10:36:15	571	31417	96	103	90	89	95	65	94	90	91	85
10:36:30	571	31415	100	98	89	90	94	65	96	89	88	85
10:36:45	571	31429	93	96	97	89	94	62	92	89	87	83
10:37:00	572	31397	101	106	106	91	101	65	78	89	83	79
10:37:15	572	31407	100	102	94	92	97	64	90	89	83	82
10:37:30	571	31336	93	95	108	90	97	64	94	89	81	82
10:37:45	571	31436	88	101	120	89	100	70	85	89	84	82
10:38:00	571	31454	101	97	97	93	97	64	91	86	95	84
10:38:15	571	31392	97	98	94	90	95	65	95	86	79	81
10:38:30	572	31393	101	100	96	92	97	62	81	88	85	79
10:38:45	571	31392	98	98	105	92	98	63	96	90	86	84
10:39:00	571	31408	99	104	85	92	95	63	90	89	79	80
10:39:15	571	31418	84	97	91	88	90	60	89	87	99	84
10:39:30	571	31391	98	107	100	90	99	66	93	88	92	85
10:39:45	570	31346	114	91	109	94	102	60	95	84	94	83
10:40:00	571	31395	98	96	106	90	98	65	98	87	89	85
10:40:15	571	31431	95	99	103	92	97	64	87	88	81	80
10:40:30	571	31399	94	98	81	91	91	64	95	89	87	84
10:40:45	571	31413	101	92	97	91	95	63	95	86	100	86
10:41:00	571	31423	99	109	100	93	100	66	92	86	99	86
10:41:15	571	31403	96	102	98	93	97	64	90	87	87	82
10:41:30	572	31389	101	87	96	93	94	62	92	85	70	77
10:41:45	571	31388	86	108	119	90	101	58	95	86	81	80
10:42:00	571	31371	100	100	98	90	97	64	93	88	90	84

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:	75	
System Relief Water Collected:	0	mls
Calculated Water Loss:	75	
Average Leak Rate:	1.3	ml/min
Average Seal Circumference	24.8	inches
Allowable Leak Rate:	24.8	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.:	20.3	minutes
Minimum Allowable Time at Temperature:	15	minutes
Average Cal. Block Temperature During Burn:	1168	deg. F
Maximum Average Cal. Block Temperature During Burn:	1345	deg. F
Minimum Average Cal. Block Temperature During Burn:	70	deg. F
Average Flame Temperature During Burn:	1561	deg. F
Maximum Average Flame Temperature During Burn:	1628	deg. F
Minimum Average Flame Temperature During Burn:	210	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: 12/11/2010

Product Code: 6 inch Class 300 Spiral Wound Gasket

Project Number: PN210140

System pressure was lowered to 0 and then repressurized.

Operational Test Raw Data

Time	Pressure (psig)	Average Block Temp-F
10:56:50	568	82
10:57:05	567	82
10:57:20	568	82
10:57:35	568	82
10:57:50	567	82
10:58:05	567	82
10:58:20	568	82
10:58:35	567	82
10:58:50	568	81
10:59:05	567	82
10:59:20	567	82
10:59:35	567	82
10:59:50	567	82
11:00:05	567	81
11:00:20	568	81
11:00:35	567	82
11:00:50	567	82
11:01:05	567	82
11:01:20	568	82
11:01:35	567	82
11:01:50	567	82

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:	24.8	ml/min

Was the Leakage Below the Allowable?	Yes
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