





REPORT NUMBER: 100982213SAT-003
ORIGINAL ISSUE DATE: September 4, 2014
REVISED DATE: N/A

EVALUATION CENTER

16015 Shady Falls Road Elmendorf, TX 78112 (voice) 210-635-8100 (fax) 210-635-8101 www.intertek.com

RENDERED TO

AREVA NP Inc. 4100 International Plaza Fort Worth, TX 76109



PRODUCTS EVALUATED: Quantum Silicones QSil 5558MC Silicone

Elastomer

EVALUATION PROPERTY: Seismic Pressure (Seismic Pressure Test 3)

Report of Testing pressure resistance capabilities for compliance with the applicable requirements of AREVA NP Inc. Test Plan, Document No. 51-9209210-001

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

1 Table of Contents

ITEM				
1 Table of Contents	2			
2 Introduction	3			
3 Test Samples	3			
4 Testing and Evaluation Methods	4			
5 Testing and Evaluation Results	14			
6 Conclusions	19			
Appendices				
Appendix A: Assembly Drawings	21			
Appendix B: Test Data	22			
Appendix C: Photographs	168			
Appendix D: Test Plan	188			
Appendix E: Commercial Grade Dedication-Related Documents	216			
Appendix F: Quality Documents	218			
Revision Summary / Last Page of Report	233			



2 Introduction

Intertek Testing Services NA (Intertek) has conducted testing for AREVA NP Inc., on the seismic pressure resistance capabilities of Quantum Silicones QSil 5558MC Silicone Elastomer (Qsil 555MC) in a 12" thick concrete deck for compliance with the applicable requirements of and in accordance with AREVA NP Inc. Document No. 51-9209210-001, *Detailed Test Plan for Conducting MOX Seismic Pressure Test 3*. This evaluation took place on October 15 and October 16, 2013.

This project was undertaken to evaluate the seismic pressure resistance capabilities of the test assembly using alternating pressures at the air pressure increments above atmospheric pressure.

NOTE: The test assembly used in this seismic pressure test was the same test assembly that was constructed and tested in Pressure Test 4A without any changes. Refer to AREVA Doc. 58-9222891-000 or Intertek Test Report No. 100982213SAT-005A for details on Pressure Test 4A.

3 Test Samples

3.1. SAMPLE SELECTION

The sealant materials were not independently selected for testing; they were supplied by AREVA NP Inc., and were received on June 19, 2013. The samples were received with Certificates of Conformance and are considered traceable. Basic information on sealant material(s) is presented in the table below.

Sealant Material	Lot /Batch#	Expiration Date
QSil 5558 MC	130606	6/14/2014

Information regarding receiving dates and origin of all of the test materials can be found in Appendix F: Quality Documents of Pressure Test 4A (Intertek Test Report No.100982213SAT-005A; AREVA document 58-9222891-000). All samples were received in good condition at the Evaluation Center.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

The test assembly used in this test was the same assembly tested as Pressure Test 4A. A detailed description of the concrete deck and penetrations can be found in AREVA NP Inc. Engineering Record 51-9209210-001, *Detailed Test Plan for Conducting Seismic Pressure Test* 3, which is contained in Appendix D. For drawings of the concrete deck and penetrations please refer to Appendix A of Pressure Test 4 and 4A (Intertek Report No. 100982213SAT-001D; AREVA document 58-9222547-000 and Intertek Report No. 100982213SAT-005A; AREVA document 58-9222891-000, respectively). The test consisted of a 12" thick concrete slab measuring approximately 96" x 96" (8' x 8'). Within this slab was one 48" x 34" penetration containing electrical raceway commodities sealed with an 8" depth of silicone elastomer material (QSil 5558MC). The installation and documentation of penetration seal assemblies contained



within the test slab was performed by AREVA under AREVA's Quality Assurance Program (Reference 12.4 in the test plan found in Appendix D).

4 Testing and Evaluation Methods

The Test Plan in Appendix D defines the test methods, acceptance criteria and test report documentation requirements for penetration seal Seismic Pressure Test 3. Additionally, this detailed test plan defines the roles and responsibilities of MOX Services, AREVA, the selected testing laboratory, and any other subcontracted entity engaged in support of seismic pressure testing efforts.

The detailed Test Plan also describes the procurement plan for materials associated with penetration seal Seismic Pressure Test 3 and identifies the entities responsible for procuring the various components of the test assembly based on the quality level assigned to each component.

The Test Plan also establishes minimum quality requirements for the penetration seal materials used in the test assembly and links quality requirements in the AREVA Quality Assurance (QA) program to customer/project quality requirements.

4.1. TEST APPARATUS

In the absence of any consensus codes or standards related to the pressure testing of penetration seal assemblies for seismic qualification purposes, the MOX Penetration Seal Program has developed a standardized method for conducting seismic pressure testing of MOX penetration seal designs. Specifically, seismic pressure testing will be used to evaluate the seismic inertia of the self-weight of the seal assembly by applying an equivalent pressure to alternating sides of a penetration seal assembly. In support of this effort, Intertek assisted in the design and construction of a pressure test apparatus to be use in the conduct of MOX penetration seal pressure tests.

The pressure chamber apparatus consists of two hemispherical 72" diameter steel pressure vessels, calibrated equipment and a data acquisition system. The apparatus accurately maintains the desired air pressure, using one of two sensitive, manually adjustable pressure regulators; a high (0-15 psi) and a low (0-2 psi) range. The sealed collection chamber feeds any leakage air back to the test device, where it is channeled through one of two calibrated flow meters, once again, a high (0-200 L/min) and a low (0-20 L/min) range. A calibrated electronic pressure transducer (0-5 psi) measures the differential pressure between the two chambers and the data acquisition software determines the net pressure drop across the test seal and the leakage through the seal. The chambers are interchangeable and the direction can be reversed very quickly so both can serve as the pressure or the collection chamber.

The primary components described above include the devices presented on the following pages:



Pressure Chamber

2-piece hemispherical 72" diameter steel vessel

3 connection ports per piece

16 flange attachment points per piece

Flange attachment via 3/8" diameter holes @ 22-1/2° spacing



Pressure Cart Stainless steel rolling cart with control equipment and associated Data Acquisition System





Control Air, Inc., Amherst, NH Type 700 0-2 psi Regulator (low)

Regulator (high) Control Air, Inc., Amherst, NH

Type 700 0-15 psi





Mass Flow Meter

Omega Engineering, Inc., Stamford, CT Model No. FMA-872A-V-NIST Serial No. 4270050001001 0-20 lpm



Mass Flow Meter

Omega Engineering, Inc., Stamford, CT Model No. FMA-875A-V-NIST Serial No. 4270050003001 0-200 lpm





Pressure Transducer Omegadyne Inc., Sunbury, OH
Model No. PX409-005 DWUV
Serial No. 406707
Pressure Range: 0-5 psi
Input 0-100mVdc





Power Supply Omega Engineering, Inc., Stamford, CT

Model No. PSS-10 +10V @ 400 mA Input 115 VAC 50/60 Hz

Multifunction DAQ National Instruments,

Model No. NI USB-6210

16 Input, 16-bit, 250 kS/s, Multifunction I/O





Dedicated CPU

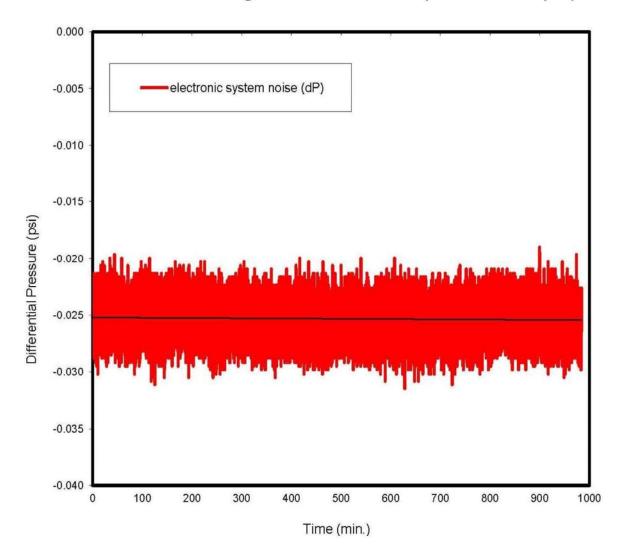
HP Compaq Pro-6300 Microtower Serial No. MXL3090LN6 OS Windows 7 Pro





Additionally, during initial system start-up testing and verification, it was discovered that the data acquisition system (DAQ) was so sensitive that "signal noise" resulted in data fluctuations for reported differential pressure even when the system was at equilibrium (i.e., both high side and low side pressure chambers were at atmospheric conditions). After collecting data for 16 hours overnight, the average fluctuation was -0.025 psi.

16-hr Average Electronic Noise (dP = -0.0253 psi)



As seen above, the average data fluctuation due to "signal noise" was -0.025 psi. For this test, the Test Plan required pressure was applied and maintained using the DAQ reported differential pressure without consideration for any "signal noise". Since the "signal noise" always reported some level of negative pressure at the beginning of the test, this method assured that the tests were conducted with additional margin, as the actual differential pressure that the test specimen was subjected to was equal to the DAQ reported differential pressure plus the additional pressure needed to overcome the negative "signal noise" reported at the beginning of the test when both pressure chambers were at atmospheric conditions.



4.2. TEST STANDARD

AREVA NP Inc. Document No. 51-9209210-001

Seismically qualified penetration seals at the MOX facility are required to remain in the opening (penetration) during and after a Design Earthquake seismic event. In order to demonstrate that a penetration seal will remain in place, the seal has to be evaluated for two conditions: 1) The seismic inertia of the self-weight of the seal has to be evaluated; and 2) The seismic deflection of the commodities penetrating the seal has to be considered.

Seismic pressure testing will be used to evaluate the seismic inertia of the self-weight of the seal assembly. This will be accomplished by applying a pressure to alternating sides of the penetration seal to demonstrate that the seal will not become dislodged from the opening due to the seismic inertia of the self-weight of the seal. The seismic deflection of commodities that penetrate the seal will be addressed by a separate analysis.

Ultimately, the overall seismic qualification of MOX penetration seal assemblies will be captured in a penetration seal seismic qualification report that will tie together the results of seismic pressure testing with other analyses performed to address seismic deflection of commodities that penetrate the seal.

The acceptance criterion for evaluating the seismic inertia of the seal self-weight is calculated in MOX Services Calculation "Penetration Seal Seismic Requirements" [Test Plan Reference 12.1] and expressed as an equivalent pressure. Testing at this equivalent pressure will qualify that a penetration seal assembly will remain in place (i.e., the penetration seal cannot become dislodged from the opening or otherwise catastrophically fail such that a substantial leakage path is created) during the design earthquake seismic event.

The relative movement of the items penetrating a seal and the movement of the wall / seal during a seismic event are not considered as a part of this test. A separate engineering evaluation is required to evaluate the effect of movement on a seal with penetrating items during a seismic event.

No pressure inducing events are required to be considered concurrently with a seismic event.

The table below identifies the differential pressure levels (stages) for conducting this seismic pressure test, as well as, the acceptance criteria in order for the penetration seal assemblies to meet the seismic pressure testing requirements.

Differential Seismic Pressure Test Levels

Test Stage	Differential Pressure (inch w.g.)	Required Hold Time (minutes)	Acceptance Criteria	Basis for the Selected Differential Pressure
1-4	45 (Note 1)	5	Penetration Seal Remains in Opening (Does not become dislodged)	Testing at this differential pressure meets the seismic demand expressed as a pressure [Test Plan Reference 12.1]



AREVA NP Inc. September 4, 2014
Report No. 100982213SAT-003 Page 13 of 233

Note 1: For Seismic Pressure Test 3, a nominal density of 85 pcf was used for silicone elastomer seal material (QSil 5558MC) installed for the purposes of determining the test penetration seal's weight per square foot. 85 pcf bounds the installed seal material density, with margin. 85 pcf times a seal depth of 8" yields a seal weight of approximately 56.7 psf. Based on Figure B-2.1 of Test Plan Reference 12.1, the corresponding seismic pressure for a seal weight of 56.7 psf is approximately 44.7 inches w.g. Therefore, for Seismic Pressure Test 3 an equivalent seismic pressure of 45 inches w.g. was used.

The test assembly was attached to the seismic pressure test apparatus and subjected to the pressures identified in the table above.

For Stage 1, the test assembly was attached to the seismic pressure test apparatus and subjected to air pressure at the select pressure level identified in the table above. Once this pressure was obtained, the pressure was maintained for the hold time specified. If the penetration seal catastrophically failed during this time, the time of failure was to be noted and the test stopped.

Once the designated hold time for Stage 1 was achieved, the pressure was vented from the test chamber. Next, the pressure identified in the table for Stage 2 was applied to the opposite side of the penetration seal and held for the designated hold time. If the penetration seal catastrophically failed during this time, the time of failure was to be noted and the test stopped.

Once the designated hold time for Stage 2 was achieved, the pressure was vented from the test chamber. Next, the pressure identified in the table for Stage 3 was applied to the original side of the penetration seal and held for the designated hold time. If the penetration seal catastrophically failed during this time, the time of failure was to be noted and the test stopped.

Once the designated hold time for Stage 3 was achieved, the pressure was vented from the test chamber. Finally, the pressure identified in the table for Stage 4 was applied to the opposite side of the penetration seal and held for the designated hold time. If the penetration seal catastrophically failed during this time, the time of failure was to be noted and the test stopped.

Following completion of Stage 4 seismic pressure testing, the pressure was vented from the test chamber. At this point, the test was continued at the discretion of the AREVA test engineer and the testing laboratory manager in charge. Subsequent pressures, and hold times were recorded as directed by the AREVA test engineer.

NOTE: The pressure used for the testing performed above was based on a seal material depth of 8 inches and a seal material density of 85 pcf. Since the test was successful, subsequent testing pressures were evaluated for a 10 inch depth of material (56 inches w.g.) and a 12 inch depth of material (67 inches w.g.). These tests were designated Stages 1a-4a and 1b-4b, respectively.

If at any pressure level (or test stage) the penetration seal became dislodged from the opening or otherwise catastrophically failed, the seismic pressure test was to be terminated and the time to failure and pressure at which the failure occurred was to be recorded.



5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

Tests 1-4 and 1a-4a were initiated at 2:45 p.m. on October 15, 2013. The ambient temperature at the start of the test was 88°F, with a relative humidity of 46%. Tests 1b-4b was initiated at 9:35 a.m. on October 16, 2013. The ambient temperature at the start of the test was 68°F, with a relative humidity of 63%. Scott Groesbeck, representing AREVA NP Inc. was present to witness the tests.

The test procedure followed that presented in Section 9.0 of the Test Plan, except that at the completion of Stage 4 the pressure was not vented from the bottom chamber. In lieu of this, the bottom chamber pressure was increased to the Stage 1a level of 56" w.g. and the test continued. This resulted in Stage 4a concluding with the pressure being applied to the top side of the test assembly. A similar process was followed, the top side pressure of 67 w.g. applied, and the test continued for Stages 1b-4b. This minor deviation from the prescribed test method was conducted with the verbal approval of the AREVA Test Engineer and is deemed to have had no adverse impact on the outcome of the test results.

The graphs and table on the following page(s) provide a summary of results and observations for the various pressure stages; any observed leakage, and whether the seal remained in place. Appendix B of this test report contains the raw data for this test.

The graphs are based on data collected throughout the entire test process, including the time periods between stages when the pressure chamber was being vented and refilled. Pressure spikes and leakage rates displayed for time periods between stages should not be misinterpreted, as recorded leakage may have been caused by intentional venting of the pressure chamber though a mass flow meter.

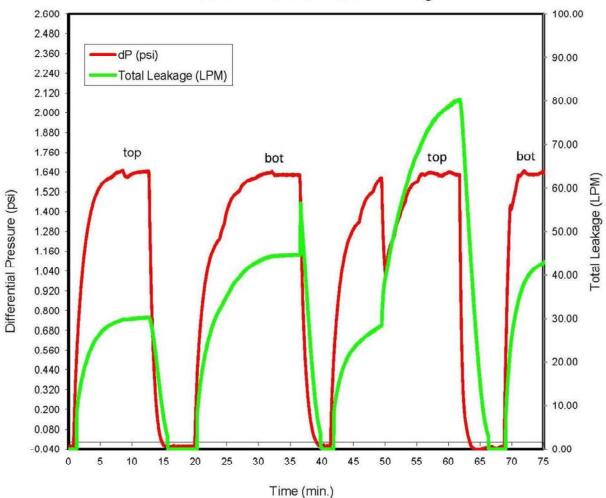
Additionally, it should be noted that when changing between mass flowmeters during a pressure a test, valve lineups and flowpath routes are changed. The time it takes to manipulate the valves, differences in tubing sizes, orifice sizes and mass flowmeter throughput capacity all affect bonnet pressure on the leakage side of the test assembly which can affect recorded leakage values. Generally, the input air on the opposite side of the test assembly remains constant during this time period, since manipulation of the input pressure regulator would require additional operator action. This results in reported differential pressure fluctuations which typically show up as pressure spikes when the raw data is graphed. Within a few minutes of mass flowmeter switchover, the system stabilizes to the new lineup and the data results in a more uniform graph.

Therefore, it is important to analyze the data compiled during the hold times for each pressure stage and not the data before, after or in between pressure stages. The summary table presented after the graphs identifies the approximate start time and stop times for each pressure stage of this test. These times can be correlated to the data under the "Time (min)" heading for the raw data contained in Appendix B of this report. The official start and stop times for each pressure stage were timed using a traceable, calibrated stopwatch.



Stage 1-4

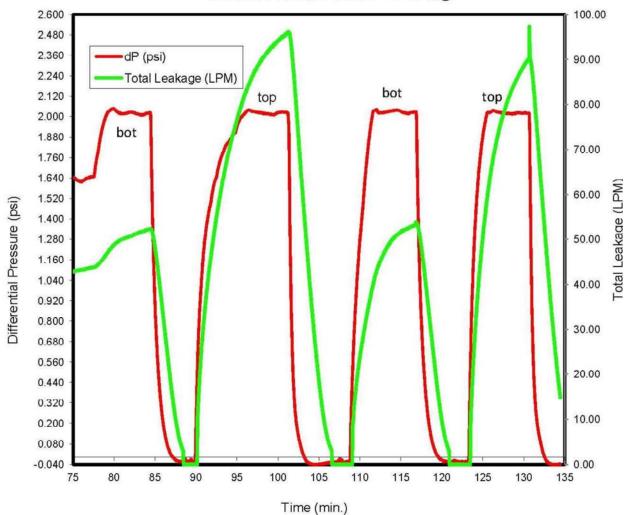
Chamber Differential Pressure and Seal Leakage
Seismic Pressure Test 3 - 45-in w.g.





Stage 1a-4a

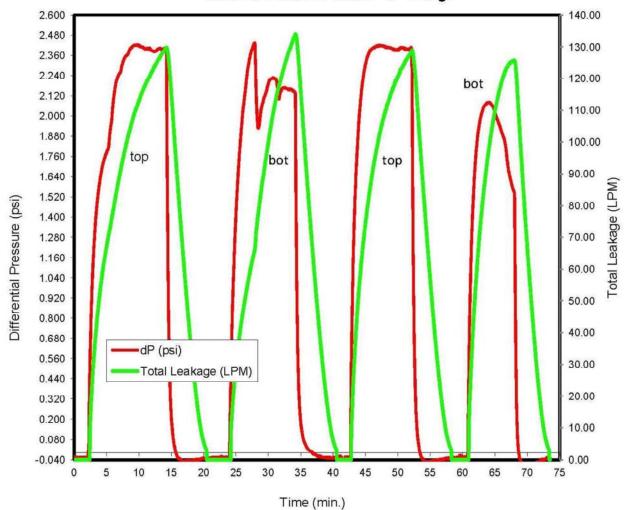
Chamber Differential Pressure and Seal Leakage
Seismic Pressure Test 3 - 56-in w.g.





Stage 1b-4b

Chamber Differential Pressure and Seal Leakage Seismic Pressure Test 3 - 67-in w.g.





Test Results and Observations

Test Stage	Pressurized Side	Differential Pressure (inch w.g.)	Start Time (min)	Required Hold Time (minutes)	Acceptance Criteria	PASS/FAIL
1	TOP	45	7.4	5	Seal Remains In Place	PASS
2	воттом	45	31.1	5	Seal Remains In Place	PASS
3	TOP	45	56.6	5	Seal Remains In Place	PASS
4	воттом	45	71.5	5	Seal Remains In Place	PASS
1a	воттом	56	79.2	5	Seal Remains In Place	PASS
2a	TOP	56	96	5	Seal Remains In Place	PASS
3a	воттом	56	111.6	5	Seal Remains In Place	PASS
4a	TOP	56	125.5	5	Seal Remains In Place	PASS
1b	TOP	67	9.2	5	Seal Remains In Place	PASS
2b	воттом	67	27.7	5	Seal Remains In Place	INDETERMINATE ¹
3b	TOP	67	47	5	Seal Remains In Place	PASS
4b	воттом	67	64	5	Seal Remains In Place	INDETERMINATE ²

¹ Very soon after building the required pressure for Stage 2b (~20 seconds), leakage occurred that exceeded the available makeup air. At the end of the 5-minute hold period, the differential pressure was 2.16 psi (60-in WC), which was below the required pressure or 67-in WC. For this reason pass/fail could not be determined.



² The required pressure for Stage 4b could not be achieved due to leakage that exceeded the available makeup air. The maximum differential pressure achieved during Stage 4b was 2.08 psi (58-in WC), which was below the required pressure or 67-in WC. For this reason pass/fail could not be determined.

AREVA NP Inc. September 4, 2014
Report No. 100982213SAT-003 Page 19 of 233

5.2. POST TEST EXAMINATION

Following completion of Seismic Pressure Test 3, the top bonnet was removed and the top side of the test specimen was visually inspected. This inspection revealed the following:

- > Integrity of seal and conditions on the exposed side of the penetration
 - No visual changes were observed.
- Location of any penetration seal degradation
 - No visual changes were observed.
- Condition of seal to barrier interface
 - Some slight separation was observed at seal to concrete interfaces. Specifically, on the 48" long side adjacent to the top of the cable trays, there was slight separation for a distance of ~18". There was also slight separation noted on the 34" side adjacent to the conduits. There was no evidence of any separation along the other two sides of the opening. It is important to note that the two sides with separation are the two sides of the opening that had the previous epoxy coating removed using the grinder equipped with a masonry blade (see test report for Pressure Test 4). The two sides that had the epoxy removed with the needle gun show no signs of seal separation at the concrete interface.
- Condition of seal to penetrating item interfaces
 - The DC 732 caulk remained in place around all of the commodities.

Finally, the slab was removed from the bottom bonnet and the bottom side of the test assembly was inspected. No visual changes were noted on the bottom side of the test assembly.

6 Conclusion

Intertek Testing Services NA (Intertek) has conducted testing for AREVA NP Inc., on the seismic pressure resistance capabilities of Quantum Silicones QSil 5558MC Silicone Elastomer (Qsil 555MC)) in a 12" thick concrete deck for compliance with the applicable requirements of and in accordance with AREVA NP Inc. Document No. 51-9209210-001, *Detailed Test Plan for Conducting MOX Seismic Pressure Test* 3. This evaluation took place on October 15-16, 2013.

The seals in Seismic Pressure Test 3 met the acceptance criteria as defined in the Test Plan with the following exceptions. Leakage occurred when the bottom chamber was pressurized during Stages 2b and 4b (67-in WC). The leakage exceeded the available makeup air so the required differential pressure could not be achieved/maintained. For this reason, pass/fail for Stages 2b and 4b could not be determined.

This project was undertaken to evaluate the seismic pressure resistance capabilities of the test assembly using alternating pressures at the air pressure increments above atmospheric pressure.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.



INTERTEK TESTING SERVICES NA





Reviewed by:

Michael A. Brown

Quality Supervisor

AREVA NP Inc. Report No. 100982213SAT-003

APPENDIX A Assembly Drawings

The test assembly used in Seismic Pressure Test 3 was the same assembly tested in Pressure 4A. A detailed description of the assembly is presented in the Test Plan in Appendix D. For drawings of the assembly, please refer to the final test report for Pressure Test 4 and 4A (Intertek Report No. 100982213SAT-001D; AREVA document 58-9222547-000 and Intertek Report No. 100982213SAT-005A; AREVA document 58-9222891-000, respectively).



September 4, 2014

Page 21 of 233

APPENDIX B Test Data



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
0	-0.0203	0	0	0
0.0333	-0.0216	0.0048	0.0019	0.0067
0.0667	-0.0252	0.0048	0	0.0048
0.1	-0.0213	0.0048	0.0006	0.0054
0.1333	-0.0223	0.0048	0.0006	0.0054
0.1667	-0.0229	0	0.0006	0.0006
0.2	-0.0236	0.0048	0.0006	0.0054
0.2333	-0.0219	0.0048	0.0019	0.0067
0.2667	-0.0226	0.0048	0.0006	0.0054
0.3	-0.0223	0.0048	0	0.0048
0.3333	-0.0213	0	0	0
0.3667	-0.02	0	0	0
0.4	-0.0232	0.0048	0.0006	0.0054
0.4333	-0.0239	0.0179	0	0.0179
0.4667	-0.0223	0.0048	0	0.0048
0.5	-0.0203	0.0048	0	0.0048
0.5333	-0.0213	0.0048	0.0006	0.0054
0.5667	-0.02	0	0	0
0.6	-0.0196	0	0.0006	0.0006
0.6333	-0.0232	0.0048	0	0.0048
0.6667	-0.02	0.0179	0.0006	0.0185
0.7	-0.02	0	0.0006	0.0006
0.7333	-0.0186	0.0048	0.0006	0.0054
0.7667	-0.0232	0	0	0 0040
0.8 0.8333	-0.0065 0.0442	0.0048	0.0006	0.0048
			0.0008	0.0008
0.8667 0.9	0.0893	0	0.0019	0.0019
0.9333	0.1835	0	0.0006	0.0006
0.9555	0.1833	0	0.0008	0.0008
0.3007	0.2644	0	0.0015	0.0015
1.0333	0.3	0	0.0006	0.0006
1.0667	0.3355	0	0.0019	0.0019
1.1	0.3684	0	0.0006	0.00015
1.1333	0.4007	0.0048	0.0019	0.0067
1.1667	0.4313	0	0	0.0007
1.2	0.4606	0.0048	0	0.0048
1.2333	0.4863	0	0.0006	0.0006
1.2667	0.5132	0.0048	0.0006	0.0054
1.3	0.5406	8.4469	0	8.4469
1.3333	0.5666	8.9071	0.0019	8.9091
1.3667	0.5909	9.3148	0.0006	9.3154
1.4	0.6156	9.7619	0.0000	9.7619
		222		



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
		(=====,		,
1.4333	0.6406	10.1695	0.0006	10.1701
1.4667	0.6627	10.5114	0.0019	10.5133
1.5	0.6814	10.8796	0.0006	10.8802
1.5333	0.7032	11.3004	0.0019	11.3023
1.5667	0.7255	11.5765	0.0006	11.5771
1.6	0.7456	11.9842	0	11.9842
1.6333	0.7663	12.3129	0.0006	12.3135
1.6667	0.7851	12.6154	0.0006	12.616
1.7	0.8016	12.9047	0	12.9047
1.7333	0.8213	13.1808	0.0019	13.1827
1.7667	0.8404	13.4438	0.0006	13.4444
1.8	0.8555	13.7199	0	13.7199
1.8333	0.874	13.9698	0.0006	13.9704
1.8667	0.8944	14.2985	0.0006	14.2991
1.9	0.9108	14.5352	0	14.5352
1.9333	0.9224	14.8508	0	14.8508
1.9667	0.9398	15.0612	0	15.0612
2	0.9559	15.3111	0	15.3111
2.0333	0.9698	15.5478	0	15.5478
2.0667	0.9856	15.7976	0	15.7976
2.1	1	16.0343	0	16.0343
2.1333	1.0148	16.2841	0.0006	16.2847
2.1667	1.0303	16.4551	0.0006	16.4557
2.2	1.0415	16.6786	0	16.6786
2.2333	1.0543	16.8627	0	16.8627
2.2667	1.0695	17.1126	0.0006	17.1132
2.3 2.3333	1.0784	17.323	0.0019	17.323
2.3667	1.0942 1.1027	17.5597 17.7701	0.0019	17.5616 17.7701
2.3007	1.1185	17.9279	0.0006	17.7701
2.4333	1.1103	18.0725	0.0008	18.0725
2.4667	1.1399	18.3487	0	18.3487
2.4007	1.1472	18.4933	0.0006	18.4939
2.5333	1.1606	18.6905	0.0000	18.6905
2.5667	1.1705	18.9141	0.0006	18.9147
2.6	1.1847	19.0456	0.0000	19.0456
2.6333	1.1903	19.1771	0.0006	19.1777
2.6667	1.2001	19.4006	0.0006	19.4012
2.7	1.2127	19.5453	0.0000	19.5453
2.7333	1.2212	19.782	0.0019	19.7839
2.7667	1.2324	19.9003	0.0006	19.9009
2.8	1.2423	19.9924	0.0006	19.993
2.8333	1.2505	20.2291	0.0006	20.2297



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
2.8667	1.2564	20.3737	0	20.3737
2.9	1.2696	20.5315	0	20.5315
2.9333	1.2778	20.7156	0.0006	20.7162
2.9667	1.2841	20.7945	0.0006	20.7951
3	1.2933	21.0049	0	21.0049
3.0333	1.2986	21.1627	0.0006	21.1633
3.0667	1.3074	21.281	0.0019	21.283
3.1	1.3147	21.4651	0	21.4651
3.1333	1.3213	21.5309	0	21.5309
3.1667	1.3282	21.6887	0	21.6887
3.2	1.3374	21.7676	0.0019	21.7695
3.2333	1.342	21.9648	0.0019	21.9667
3.2667	1.3515	22.0832	0	22.0832
3.3	1.3562	22.241	0	22.241
3.3333	1.3611	22.3199	0.0006	22.3205
3.3667	1.3664	22.4119	0.0006	22.4125
3.4	1.3775	22.5566	0.0006	22.5572
3.4333	1.3812	22.6881	0	22.6881
3.4667	1.3884	22.767	0	22.767
3.5	1.3917	22.8853	0.0019	22.8872
3.5333	1.3973	23.0431	0.0019	23.045
3.5667	1.4055	23.1089	0	23.1089
3.6	1.4124	23.2535	0.0006	23.2541
3.6333	1.4144	23.385	0.0006	23.3856
3.6667	1.4193	23.4376	0	23.4376
3.7	1.4243	23.5822	0.0006	23.5828
3.7333	1.4282	23.6743	0.0006	23.6749
3.7667	1.4332	23.7795	0.0006	23.7801
3.8	1.4391	23.8058	0.0019	23.8077
3.8333	1.445	23.9504	0.0006	23.951
3.8667	1.447	24.0556	0.0006	24.0562
3.9	1.4532	24.1871	0.0006	24.1877
3.9333	1.4585	24.266	0	24.266
3.9667	1.4611	24.3712	0.0006	24.3718
4	1.4641	24.4107	0.0006	24.4113
4.0333	1.4727	24.5422	0.0006	24.5428
4.0667	1.4733	24.6079	0	24.6079
4.1	1.4783	24.7394	0	24.7394
4.1333	1.4809	24.8315	0.0019	24.8334
4.1667	1.4865	24.8446	0	24.8446
4.2	1.4895	24.9761	0.0032	24.9793
4.2333	1.4898	25.055	0.0006	25.0556
4.2667	1.495	25.0945	0	25.0945



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
		(=====,		,
4.3	1.499	25.1471	0.0006	25.1477
4.3333	1.5039	25.2523	0	25.2523
4.3667	1.5059	25.3049	0.0006	25.3055
4.4	1.5069	25.4232	0	25.4232
4.4333	1.5122	25.489	0	25.489
4.4667	1.5118	25.5942	0.0006	25.5947
4.5	1.5141	25.6336	0.0006	25.6342
4.5333	1.5211	25.7256	0.0006	25.7262
4.5667	1.524	25.8177	0.0006	25.8183
4.6	1.5276	25.8308	0.0019	25.8328
4.6333	1.529	25.8703	0.0006	25.8709
4.6667	1.5306	25.9492	0	25.9492
4.7	1.5342	26.0544	0.0006	26.055
4.7333	1.5332	26.1596	0.0006	26.1602
4.7667	1.5392	26.2122	0	26.2122
4.8	1.5418	26.2122	0.0006	26.2128
4.8333	1.5411	26.3437	0.0006	26.3443
4.8667	1.5428	26.4226	0	26.4226
4.9	1.5454	26.462	0	26.462
4.9333	1.5471	26.5541	0.0006	26.5547
4.9667	1.552	26.5409	0	26.5409
5	1.5503	26.6067	0.0006	26.6073
5.0333	1.552	26.6987	0.0006	26.6993
5.0667	1.5553	26.7382	0.0019	26.7401
5.1	1.5576	26.7645	0	26.7645
5.1333	1.5586	26.8434	0	26.8434
5.1667	1.5592	26.9091	0	26.9091
5.2	1.5652	26.9617	0	26.9617
5.2333	1.5675	26.988	0	26.988
5.2667	1.5681	27.0143	0.0006	27.0149
5.3	1.5678	27.1195	0.0006	27.1201
5.3333	1.5708	27.1327	0.0006	27.1333
5.3667	1.5727	27.2116	0.0006	27.2122
5.4	1.5737	27.2247	0.0006	27.2253
5.4333	1.5744	27.3036	0	27.3036
5.4667	1.5744	27.3168	0	27.3168
5.5	1.575	27.3299	0	27.3299
5.5333	1.5806	27.3431	0	27.3431
5.5667	1.5806	27.4614	0	27.4614
5.6	1.5829	27.5272	0	27.5272
5.6333	1.5806	27.5403	0	27.5403
5.6667	1.5849	27.5403	0.0006	27.5409
5.7	1.5842	27.5929	0.0006	27.5935



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
				•
5.7333	1.5842	27.6324	0.0019	27.6343
5.7667	1.5872	27.7244	0	27.7244
5.8	1.5872	27.6455	0.0006	27.6461
5.8333	1.5908	27.7639	0	27.7639
5.8667	1.5889	27.7507	0	27.7507
5.9	1.5935	27.8691	0.0019	27.871
5.9333	1.5925	27.8954	0	27.8954
5.9667	1.5935	27.9611	0.0006	27.9617
6	1.5928	27.948	0.0006	27.9486
6.0333	1.5968	27.9743	0.0006	27.9748
6.0667	1.5944	28.0137	0.0006	28.0143
6.1	1.5958	28.0663	0	28.0663
6.1333	1.5944	28.1057	0.0006	28.1063
6.1667	1.5994	28.1583	0.0006	28.1589
6.2	1.6023	28.1715	0	28.1715
6.2333	1.5987	28.1583	0	28.1583
6.2667	1.601	28.2241	0	28.2241
6.3	1.6014	28.2635	0.0006	28.2641
6.3333	1.6037	28.3161	0	28.3161
6.3667	1.602	28.303	0.0006	28.3036
6.4	1.6033	28.3687	0.0006	28.3693
6.4333 6.4667	1.604 1.606	28.395 28.4345	0.0006	28.3956 28.4345
6.5	1.605	28.4476	0.0006	28.4482
6.5333	1.6043	28.4345	0.0006	28.4351
6.5667	1.607	28.5002	0.0006	28.5008
6.6	1.6089	28.4871	0.0019	28.489
6.6333	1.6083	28.5397	0.0019	28.5397
6.6667	1.6096	28.5397	0	28.5397
6.7	1.6096	28.566	0	28.566
6.7333	1.6096	28.6186	0	28.6186
6.7667	1.6073	28.6186	0.0019	28.6205
6.8	1.6096	28.6843	0	28.6843
6.8333	1.6109	28.6712	0.0006	28.6718
6.8667	1.6102	28.7501	0	28.7501
6.9	1.6116	28.7501	0	28.7501
6.9333	1.6155	28.8027	0.0006	28.8033
6.9667	1.6178	28.8027	0.0006	28.8033
7	1.6155	28.829	0	28.829
7.0333	1.6175	28.8684	0.0006	28.869
7.0667	1.6201	28.8553	0	28.8553
7.1	1.6218	28.8684	0.0006	28.869
7.1333	1.6195	28.8947	0	28.8947



Project No. G100982213SAT-003

Time	Ch 1 dP	-	Ch 3 Low Flow	
(min)	(psi)	(LPM)	(LPM)	(LPM)
7.1667	1.6228	28.9736	0.0006	28.9742
7.2	1.6257	28.9342	0.0006	28.9348
7.2333	1.6221	28.9736	0.0019	28.9755
7.2667	1.6283	28.9999	0.0006	29.0005
7.3	1.629	28.9736	0	28.9736
7.3333	1.629	29.0394	0.0006	29.04
7.3667	1.6283	29.0525	0.0006	29.0531
7.4	1.6323	29.1051	0	29.1051
7.4333	1.6297	29.1051	0.0019	29.107
7.4667	1.6313	29.1446	0	29.1446
7.5	1.633	29.2103	0.0006	29.2109
7.5333	1.6316	29.1709	0.0019	29.1728
7.5667	1.6376	29.2629	0	29.2629
7.6	1.6336	29.2892	0.0006	29.2898
7.6333	1.6346	29.1972	0	29.1972
7.6667	1.6362	29.3024	0.0006	29.303
7.7	1.6366	29.3155	0.0006	29.3161
7.7333	1.6349	29.3024	0.0006	29.303
7.7667	1.6376	29.2761	0.0019	29.278
7.8	1.6392	29.2892	0.0006	29.2898
7.8333	1.6349	29.3944	0	29.3944
7.8667	1.6399	29.3681	0.0006	29.3687
7.9	1.6405	29.355	0	29.355
7.9333	1.6399	29.447	0.0019	29.4489
7.9667	1.6399	29.4733	0	29.4733
8	1.6422	29.447	0.0019	29.4489
8.0333	1.6405	29.4996	0.0006	29.5002
8.0667	1.6428	29.4733	0.0006	29.4739
8.1	1.6428	29.4865	0	29.4865
8.1333	1.6392	29.447	0	29.447
8.1667	1.6435	29.5785	0.0006	29.5791
8.2	1.6435	29.5391	0.0006	29.5397
8.2333	1.6448	29.5654	0	29.5654
8.2667	1.6435	29.6048	0	29.6048
8.3	1.6441	29.6311	0	29.6311
8.3333	1.6465	29.6048	0.0006	29.6054
8.3667	1.6458	29.6311	0.0019	29.633
8.4	1.6468	29.6969	0.0006	29.6975
8.4333	1.6461	29.6837	0	29.6837
8.4667	1.6455	29.7363	0	29.7363
8.5	1.6465	29.7495	0	29.7495
8.5333	1.6491	29.6969	0.0006	29.6975
8.5667	1.6507	29.7758	0.0006	29.7764



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
8.6	1.6438	29.7232	0.0006	29.7238
8.6333	1.6392	29.7363	0.0006	29.7369
8.6667	1.6353	29.7495	0	29.7495
8.7	1.6349	29.8021	0.0032	29.8053
8.7333	1.631	29.7626	0	29.7626
8.7667	1.6297	29.7889	0.0006	29.7895
8.8	1.6274	29.7758	0.0006	29.7764
8.8333	1.6228	29.8415	0.0019	29.8434
8.8667	1.6195	29.7626	0.0006	29.7632
8.9	1.6181	29.8152	0.0019	29.8171
8.9333	1.6168	29.8152	0	29.8152
8.9667	1.6139	29.8284	0.0006	29.829
9	1.6142	29.8547	0.0006	29.8553
9.0333	1.6152	29.8284	0.0006	29.829
9.0667	1.6139	29.7626	0	29.7626
9.1	1.6109	29.8152	0	29.8152
9.1333	1.6135	29.8152	0	29.8152
9.1667	1.6109	29.8415	0.0006	29.8421
9.2	1.6122	29.8547	0.0006	29.8553
9.2333	1.6132	29.8021	0	29.8021
9.2667	1.6102	29.8547	0.0006	29.8553
9.3	1.6086	29.8415	0.0006	29.8421
9.3333	1.6086	29.8021	0.0006	29.8027
9.3667	1.6102	29.7889	0.0006	29.7895
9.4	1.6132	29.8547	0	29.8547
9.4333	1.6135	29.8415	0.0006	29.8421
9.4667	1.6122	29.8284	0	29.8284
9.5	1.6162	29.8678	0.0006	29.8684
9.5333	1.6175	29.881	0.0006	29.8816
9.5667	1.6188	29.8547	0.0006	29.8553
9.6	1.6204	29.8678	0	29.8678
9.6333	1.6195	29.881	0	29.881
9.6667	1.6185	29.8547	0.0006	29.8553
9.7	1.6221	29.8678	0.0006	29.8684
9.7333	1.6201	29.9204	0.0006	29.921
9.7667	1.6254	29.9204	0	29.9204
9.8	1.6211	29.8152	0.0006	29.8158
9.8333	1.626	29.8941	0.0006	29.8947
9.8667	1.6267	29.9204	0.0006	29.921
9.9	1.6254	29.8941	0.0006	29.8947
9.9333	1.626	29.8941	0.0006	29.8947
9.9667 10	1.627	29.9336	0 0006	29.9336
10	1.6267	29.8678	0.0006	29.8684



Project No. G100982213SAT-003

100 00 000	(psi)		Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
10.0333	1.6297	29.9073	0.0006	29.9079
10.0667	1.6293	29.9599	0	29.9599
10.1	1.6287	29.9862	0	29.9862
10.1333	1.6303	29.9599	0	29.9599
10.1667	1.6323	29.9467	0	29.9467
10.2	1.63	29.9204	0.0019	29.9223
10.2333	1.6303	29.9336	0.0006	29.9342
10.2667	1.6297	29.973	0.0006	29.9736
10.3	1.6333	29.9599	0.0006	29.9605
10.3333	1.632	29.9204	0	29.9204
10.3667	1.6326	29.9993	0	29.9993
10.4	1.6346	30.0125	0	30.0125
10.4333	1.6339	29.9336	0.0006	29.9342
10.4667	1.6359	29.973	0.0006	29.9736
10.5	1.6346	29.9467	0	29.9467
10.5333	1.6349	29.9862	0	29.9862
10.5667	1.6372	29.9993	0.0006	29.9999
10.6	1.6353	29.9862	0.0019	29.9881
10.6333	1.6346	30.0388	0.0006	30.0394
10.6667	1.6353	29.9993	0	29.9993
10.7	1.6366	30.0256	0	30.0256
10.7333	1.6356	30.0519	0	30.0519
10.7667	1.6386	29.973	0	29.973
10.8	1.6369	30.0519	0.0019	30.0538
10.8333	1.6353	30.0256	0.0006	30.0262
10.8667	1.6362	30.0782	0.0006	30.0788
10.9	1.6382	30.0914	0.0019	30.0933
10.9333	1.6359	30.0388	0	30.0388
10.9667	1.6376	30.0519	0.0006	30.0525
11	1.6356	30.0651	0.0032	30.0683
11.0333	1.6405	30.0651	0.0006	30.0657
11.0667	1.6379	30.0782	0.0006	30.0788
11.1	1.6382	30.1703	0.0019	30.1722
11.1333	1.6379	30.1045	0.0006	30.1051
11.1667	1.6389	30.1177	0.0006	30.1183
11.2	1.6418	30.1308	0	30.1308
11.2333	1.6409	30.1045	0	30.1045
11.2667	1.6379	30.144	0.0006	30.1446
11.3	1.6379	30.1703	0	30.1703
11.3333	1.6415	30.1045	0	30.1045
11.3667	1.6382	30.144	0.0019	30.1459
11.4	1.6412	30.144	0.0006	30.1446
11.4333	1.6376	30.144	0	30.144



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(100.7)	(=,	((
11.4667	1.6409	30.1177	0.0006	30.1183
11.5	1.6418	30.1308	0	30.1308
11.5333	1.6418	30.144	0.0006	30.1446
11.5667	1.6415	30.1571	0	30.1571
11.6	1.6409	30.144	0	30.144
11.6333	1.6412	30.1308	0.0006	30.1314
11.6667	1.6415	30.1571	0.0006	30.1577
11.7	1.6405	30.1571	0.0006	30.1577
11.7333	1.6435	30.1571	0	30.1571
11.7667	1.6428	30.1308	0	30.1308
11.8	1.6428	30.1571	0	30.1571
11.8333	1.6422	30.1703	0	30.1703
11.8667	1.6399	30.1571	0	30.1571
11.9	1.6435	30.1177	0.0006	30.1183
11.9333	1.6428	30.1703	0.0006	30.1709
11.9667	1.6428	30.1703	0	30.1703
12	1.6418	30.1571	0.0006	30.1577
12.0333	1.6445	30.1703	0.0019	30.1722
12.0667	1.6451	30.2097	0.0006	30.2103
12.1	1.6412	30.1834	0.0006	30.184
12.1333	1.6399	30.1834	0	30.1834
12.1667	1.6441	30.1703	0	30.1703
12.2	1.6432	30.1571	0	30.1571
12.2333	1.6425	30.1834	0.0006	30.184
12.2667	1.6425	30.2229	0	30.2229
12.3	1.6465	30.2229	0.0006	30.2235
12.3333	1.6441	30.2229	0.0006	30.2235
12.3667	1.6402	30.236	0	30.236
12.4	1.6432	30.2229	0	30.2229
12.4333	1.6455	30.236	0	30.236
12.4667	1.6455	30.1966	0	30.1966
12.5	1.6441	30.1571	0	30.1571
12.5333	1.6418	30.2492	0.0019	30.2511
12.5667	1.6465	30.2229	0	30.2229
12.6	1.6438	30.236	0	30.236
12.6333	1.6461	30.236	0	30.236
12.6667	1.6438	30.1703	0.0006	30.1709
12.7	1.6264	30.236	0.0006	30.2366
12.7333	1.5928	30.2097	0	30.2097
12.7667	1.5099	30.1308	0	30.1308
12.8	1.4299	30.0125	0.0006	30.0131
12.8333	1.3542	29.9599	0	29.9599
12.8667	1.2828	29.8021	0.0006	29.8027



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(1-5.7)	(=,	(,	(,
12.9	1.2166	29.6969	0	29.6969
12.9333	1.1524	29.4733	0	29.4733
12.9667	1.0896	29.2498	0.0006	29.2504
13	1.0336	29.0394	0	29.0394
13.0333	0.9796	28.8816	0.0006	28.8822
13.0667	0.9263	28.6712	0.0006	28.6718
13.1	0.8746	28.4608	0.0006	28.4614
13.1333	0.8276	28.1583	0.0019	28.1603
13.1667	0.7858	27.9085	0.0006	27.9091
13.2	0.7417	27.6455	0.0006	27.6461
13.2333	0.7032	27.3431	0	27.3431
13.2667	0.666	27.0275	0	27.0275
13.3	0.6298	26.7776	0.0019	26.7795
13.3333	0.5962	26.4094	0	26.4094
13.3667	0.5616	26.0675	0	26.0675
13.4	0.5281	25.7914	0	25.7914
13.4333	0.5004	25.4495	0.0006	25.4501
13.4667	0.4708	25.1076	0	25.1076
13.5	0.4415	24.7263	0	24.7263
13.5333	0.4191	24.3844	0	24.3844
13.5667	0.3941	24.003	0.0006	24.0036
13.6	0.373	23.6085	0	23.6085
13.6333	0.3483	23.2272	0	23.2272
13.6667	0.3266	22.859	0.0006	22.8596
13.7	0.3062	22.5303	0.0006	22.5309
13.7333	0.2838	22.0963	0	22.0963
13.7667	0.269	21.7281	0	21.7281
13.8	0.2522	21.3205	0.0006	21.3211
13.8333	0.2328	20.9391	0.0006	20.9397
13.8667 13.9	0.2203	20.5315 20.0844	0.0006	20.5321 20.085
13.9333	0.2058 0.1877	19.6636	0.0006	19.6642
13.9667	0.1877	19.3086	0.0006	19.8642
13.9667	0.1762	18.822	0.0008	18.822
14.0333	0.1624	18.4276	0	18.4276
14.0667	0.139	18.0594	0	18.0594
14.1	0.1265	17.5728	0	17.5728
14.1333	0.1263	17.1915	0	17.1915
14.1667	0.1054	16.7838	0.0006	16.7844
14.1007	0.1034	16.3893	0.0008	16.3893
14.2333	0.0834	16.008	0	16.008
14.2667	0.0781	15.6004	0.0006	15.601
14.2007	0.0781	15.127	0.0008	15.127
14.3	0.0033	13.127	U	13.12/



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
14.3333	0.0636	14.7982	0.0006	14.7988
14.3667	0.0561	14.3511	0.0006	14.3517
14.4	0.0482	14.0092	0	14.0092
14.4333	0.0423	13.5885	0.0006	13.589
14.4667	0.0334	13.1677	0	13.1677
14.5	0.0291	12.7337	0.0006	12.7343
14.5333	0.0271	12.405	0.0006	12.4056
14.5667	0.0172	11.9842	0	11.9842
14.6	0.0169	11.6554	0.0006	11.656
14.6333	0.0116	11.2741	0.0006	11.2747
14.6667	0.0084	10.827	0	10.827
14.7	0.0057	10.4062	0	10.4062
14.7333	0.0037	10.1432	0.0006	10.1438
14.7667	-0.0032	9.7619	0.0019	9.7638
14.8	-0.0032	9.4068	0	9.4068
14.8333	-0.0038	9.0781	0	9.0781
14.8667	-0.0058	8.6705	0.0006	8.6711
14.9	-0.0104	8.3943	0	8.3943
14.9333	-0.0101	8.0393	0.0006	8.0399
14.9667	-0.016	7.75	0.0006	7.7506
15	-0.0144	7.3949	0	7.3949
15.0333	-0.015	7.0793	0.0006	7.0799
15.0667	-0.0176	6.8558	0.0006	6.8564
15.1	-0.018	6.4744	0.0019	6.4764
15.1333	-0.0206	6.2378	0.0006	6.2384
15.1667	-0.017	5.9879	0	5.9879
15.2	-0.0186	5.7118	0.0019	5.7137
15.2333	-0.019	5.4751	0.0006	5.4757
15.2667	-0.0216	5.1858	0	5.1858
15.3	-0.0196	4.9228	0	4.9228
15.3333	-0.0213	4.6861	0.0006	4.6867
15.3667	-0.0239	4.502	0.0006	4.5026
15.4	-0.0223	4.2916	0	4.2916
15.4333	-0.0206	4.0549	0	4.0549
15.4667	-0.0226	3.884	0	3.884
15.5	-0.0239	3.6736	0	3.6736
15.5333	-0.0216	3.5552	0	3.5552
15.5667	-0.0226	3.3317	0	3.3317
15.6	-0.0229	3.1739	0	3.1739
15.6333	-0.0213	3.0687	0.0019	3.0706
15.6667	-0.0213	0.0048	0	0.0048
15.7	-0.0242	0	0.0006	0.0006
15.7333	-0.0226	0.0048	0.0006	0.0054



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
15.7667	-0.0239	0.0048	0.0019	0.0067
15.8	-0.0265	0	0	0
15.8333	-0.0219	0	0	0
15.8667	-0.0239	0.0048	0	0.0048
15.9	-0.0269	0	0.0019	0.0019
15.9333	-0.0226	0	0.0006	0.0006
15.9667	-0.0246	0.0179	0.0006	0.0185
16	-0.0239	0.0048	0.0006	0.0054
16.0333	-0.0249	0	0	0
16.0667	-0.0246	0	0.0019	0.0019
16.1	-0.0269	0.0179	0	0.0179
16.1333	-0.0246	0	0	0
16.1667	-0.0255	0	0.0006	0.0006
16.2	-0.0232	0.0048	0.0006	0.0054
16.2333	-0.0239	0	0.0006	0.0006
16.2667	-0.0229	0	0.0006	0.0006
16.3	-0.0242	0.0179	0.0006	0.0185
16.3333	-0.0239	0.0048	0.0006	0.0054
16.3667	-0.0239	0.0048	0.0006	0.0054
16.4	-0.0213	0	0	0
16.4333	-0.0275	0	0	0
16.4667 16.5	-0.0252 -0.0249	0	0.0019	0.0019
16.5333		0.0048	0.0019	
16.5333	-0.0239 -0.019	0.0048	0.0019	0.0067 0.0019
16.6	-0.019	0.0179	0.0019	0.0019
16.6333	-0.0223	0.0179	0.0006	0.0054
16.6667	-0.0209	0.0048	0.0008	0.0034
16.7	-0.0232	0	0.0019	0.0019
16.7333	-0.0232	0	0	0
16.7667	-0.0209	0	0.0006	0.0006
16.8	-0.0226	0.0179	0.0006	0.0185
16.8333	-0.0252	0.0048	0.0006	0.0054
16.8667	-0.0229	0	0.0006	0.0006
16.9	-0.0255	0	0	0
16.9333	-0.0242	0.0179	0	0.0179
16.9667	-0.0255	0	0	0
17	-0.0252	0.0179	0	0.0179
17.0333	-0.0236	0.0048	0.0006	0.0054
17.0667	-0.0219	0.0048	0	0.0048
17.1	-0.0246	0	0	0
17.1333	-0.0239	0.0179	0	0.0179
17.1667	-0.0206	0	0	0



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
7W.1				2 2002
17.2	-0.0246	0.0048	0	0.0048
17.2333	-0.0213	0	0.0006	0.0006
17.2667	-0.0196	0	0.0006	0.0006
17.3	-0.0239	0.0048	0.0019	0.0067
17.3333	-0.0206	0	0.0019	0.0019
17.3667	-0.0206	0.0048	0	0.0048
17.4	-0.0193	0.0048	0	0.0048
17.4333	-0.0223	0.0179	0.0006	0.0185
17.4667	-0.0236	0.0048	0.0006	0.0054
17.5	-0.0239	0	0	0
17.5333	-0.0206	0.0048	0	0.0048
17.5667	-0.0213	0.0048	0	0.0048
17.6	-0.0232	0.0048	0.0006	0.0054
17.6333	-0.0239	0	0.0006	0.0006
17.6667	-0.0223	0.0179	0	0.0179
17.7	-0.0223	0	0	0 0000
17.7333	-0.0223	_	0.0006	0.0006
17.7667	-0.0229	0.0048	-	0.0048
17.8	-0.0226	0.0048	0.0006	0.0054
17.8333	-0.0216	0.0048	0.0006	0.0054
17.8667	-0.0232	0	0.0006	0.0006
17.9	-0.0213	0.0048	0.0006	0.0054
17.9333	-0.0186	0.0048	0	0.0048
17.9667 18	-0.0209	0.0048	0.0006	0.0054
18.0333	-0.0219 -0.0239	0.0048 0.0048	0.0006	0.0054 0.0048
18.0667	-0.0233	0.0048	0.0006	0.0048
18.1	-0.0203	0.0048	0.0006	0.0054
18.1333	-0.0259	0.0048	0.0006	0.0034
18.1667	-0.0239	0	0.0006	0.0006
18.2	-0.0249	0.0048	0.0008	0.0008
18.2333	-0.0249	0.0048	0	0.0048
18.2667	-0.0249	0	0.0006	0.0006
18.3	-0.0255	0.0048	0.0008	0.0008
18.3333	-0.0233	0.0048	0	0.0048
18.3667	-0.0242	0.0048	0	0.0048
18.4	-0.0233	0.0048	0	0.0048
18.4333	-0.0209	0.0048	0	0.0048
18.4667	-0.0209	0	0	0
18.5	-0.0229	0.0048	0.0006	0.0054
18.5333	-0.0133	0.0048	0.0006	0.0054
18.5667	-0.0230	0.0048	0.0008	0.0034
18.6	-0.0232	0	0.0019	0.0019
10.0	0.02	U	0.0015	0.0013



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
18.6333	-0.0229	0	0	0
18.6667	-0.0239	0	0	0
18.7	-0.0213	0.0048	0	0.0048
18.7333	-0.0223	0	0.0006	0.0006
18.7667	-0.0206	0	0.0019	0.0019
18.8	-0.0236	0	0	0
18.8333	-0.0219	0.0048	0.0006	0.0054
18.8667	-0.0232	0	0.0019	0.0019
18.9	-0.0193	0	0	0
18.9333	-0.0203	0.0048	0.0006	0.0054
18.9667	-0.0226	0	0.0006	0.0006
19	-0.0209	0	0	0
19.0333	-0.02	0.0048	0	0.0048
19.0667	-0.0239	0.0048	0.0006	0.0054
19.1	-0.0223	0	0.0006	0.0006
19.1333	-0.0226	0.0048	0.0006	0.0054
19.1667	-0.0219	0.0179	0	0.0179
19.2	-0.0196	0.0048	0.0006	0.0054
19.2333	-0.0226	0	0.0006	0.0006
19.2667	-0.0216	0	0.0006	0.0006
19.3	-0.0239	0.0048	0.0006	0.0054
19.3333	-0.0229	0.0048	0.0006	0.0054
19.3667	-0.0223	0	0.0006	0.0006
19.4	-0.0216	0.0048	0	0.0048
19.4333	-0.0206	0	0	0
19.4667	-0.0206	0.0048	0.0006	0.0054
19.5	-0.0236	0.0048	0.0006	0.0054
19.5333 19.5667	-0.0246 -0.0223	0.0048	0.0006	0.0006
19.5667	-0.0223	0.0048	0.0006	0.0048
19.6333	-0.0246	0.0048	0.0008	0.0034
19.6667	-0.0223	0.0175	0	0.0175
19.7	-0.0213	0	0.0006	0.0006
19.7333	-0.0225	0	0.0006	0.0006
19.7667	-0.0240	0	0.0000	0.0000
19.8	-0.0229	0.0048	0	0.0048
19.8333	-0.0236	0.0048	0	0.0048
19.8667	-0.0252	0	0.0006	0.0006
19.9	-0.0246	0.0048	0.0006	0.0054
19.9333	-0.0236	0.0048	0.0006	0.0006
19.9667	0.0271	0.0048	0.0000	0.0048
20	0.0804	0.0048	0.0006	0.0048
20.0333	0.1212	0	0.0000	0.0000
	J	· ·	· ·	



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
20.0667	0.164	0.0048	0	0.0048
20.1	0.2039	0.0048	0	0.0048
20.1333	0.2437	0	0	0
20.1667	0.2763	0	0.0006	0.0006
20.2	0.3082	0	0	0
20.2333	0.3391	0	0.0006	0.0006
20.2667	0.3661	0	0	0
20.3	0.3971	0	0	0
20.3333	0.4224	8.2102	0.0006	8.2108
20.3667	0.4474	8.7888	0	8.7888
20.4	0.4718	9.3279	0.0006	9.3285
20.4333	0.4951	9.8539	0.0006	9.8545
20.4667	0.5175	10.3931	0	10.3931
20.5	0.5366	10.9059	0	10.9059
20.5333	0.5557	11.3398	0.0019	11.3418
20.5667	0.5781	11.8658	0.0006	11.8664
20.6	0.5965	12.3261	0.0006	12.3267
20.6333	0.611	12.7337	0.0032	12.7369
20.6667	0.6301	13.194	0.0006	13.1946
20.7	0.6488	13.5885	0.0006	13.589
20.7333	0.663	14.0092	0.0032	14.0125
20.7667	0.6827	14.3906	0.0006	14.3912
20.8	0.6962	14.7588	0	14.7588
20.8333	0.7137	15.1664	0.0006	15.167
20.8667	0.7275	15.5609	0	15.5609
20.9	0.743	15.9028	0.0006	15.9034
20.9333	0.7578	16.2315	0.0006	16.2321
20.9667	0.7716	16.5603		16.5609 16.9022
21.0333	0.7848	16.9022 17.2441	0	17.2441
21.0333	0.7976	17.2441	0.0006	17.5866
21.0007	0.8223	17.9016	0.0008	17.9016
21.1333	0.8223	18.1777	0.0006	18.1783
21.1667	0.8328	18.4538	0.0000	18.4538
21.2	0.8575	18.7431	0.0019	18.7451
21.2333	0.8657	19.0982	0.0019	19.0982
21.2667	0.8796	19.4006	0	19.4006
21.3	0.8894	19.6505	0.0006	19.6511
21.3333	0.8993	19.9529	0.0006	19.9535
21.3667	0.9122	20.2291	0.0006	20.2297
21.4	0.922	20.4921	0.0000	20.4921
21.4333	0.9293	20.7551	0.0006	20.7556
21.4667	0.9388	20.9917	0	20.9917



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
21.5	0.9503	21.2284	0	21.2284
21.5333	0.9579	21.5309	0	21.5309
21.5667	0.9661	21.7281	0	21.7281
21.6	0.9717	21.978	0.0006	21.9786
21.6333	0.9832	22.1884	0.0019	22.1903
21.6667	0.9921	22.4777	0	22.4777
21.7	0.9984	22.6749	0.0006	22.6755
21.7333	1.0069	22.9248	0.0006	22.9254
21.7667	1.0165	23.0957	0.0006	23.0963
21.8	1.0218	23.2929	0	23.2929
21.8333	1.0287	23.5954	0.0006	23.596
21.8667	1.0343	23.7269	0	23.7269
21.9	1.0431	23.9504	0.0006	23.951
21.9333	1.0481	24.1871	0	24.1871
21.9667	1.053	24.3449	0	24.3449
22	1.0632	24.5816	0.0006	24.5822
22.0333	1.0665	24.7657	0.0006	24.7663
22.0667	1.0718	24.963	0.0019	24.9649
22.1	1.0774	25.1208	0.0006	25.1214
22.1333	1.0836	25.318	0	25.318
22.1667	1.0912	25.4495	0	25.4495
22.2	1.0961	25.7256	0.0006	25.7262
22.2333	1.1014	25.8834	0	25.8834
22.2667	1.1047	26.0675	0.0019	26.0695
22.3	1.107	26.2253	0.0019	26.2273
22.3333	1.1133	26.3437	0	26.3437
22.3667	1.1195	26.5541	0.0006	26.5547
22.4	1.1228	26.725	0	26.725
22.4333	1.1248	26.896	0.0006	26.8966
22.4667	1.1323	27.1195	0	27.1195
22.5	1.1333	27.2773	0	27.2773
22.5333	1.1366	27.3957	0.0019	27.3976
22.5667	1.1449	27.5403	0.0006	27.5409
22.6	1.1449	27.685	0	27.685
22.6333	1.1485	27.8296	0	27.8296
22.6667	1.1524	27.9348	0	27.9348
22.7	1.1564	28.1189	0.0006	28.1195
22.7333	1.1593	28.303	0	28.303
22.7667	1.1613	28.5134	0.0006	28.514
22.8	1.1656	28.5528	0.0006	28.5534
22.8333	1.1676	28.6712	0	28.6712
22.8667	1.1725	28.8947	0.0006	28.8953
22.9	1.1748	28.9868	0.0006	28.9874



Project No. G100982213SAT-003

Time		Ch 2 High Flow		Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
22.9333	1.1781	29.1709	0	29.1709
22.9667	1.1811	29.3155	0	29.3155
23	1.1847	29.4207	0	29.4207
23.0333	1.1857	29.4865	0	29.4865
23.0667	1.1886	29.6443	0	29.6443
23.1	1.1932	29.7626	0	29.7626
23.1333	1.1926	29.8547	0.0006	29.8553
23.1667	1.1972	29.9599	0.0006	29.9605
23.2	1.1985	30.0256	0	30.0256
23.2333	1.1985	30.2097	0.0006	30.2103
23.2667	1.2024	30.3807	0	30.3807
23.3	1.2048	30.4201	0.0006	30.4207
23.3333	1.2044	30.5516	0	30.5516
23.3667	1.2107	30.7094	0	30.7094
23.4	1.2117	30.7751	0.0006	30.7757
23.4333	1.212	30.8935	0	30.8935
23.4667	1.2143	30.8935	0	30.8935
23.5	1.2182	31.0907	0	31.0907
23.5333	1.2189	31.1565	0.0006	31.1571
23.5667	1.2196	31.288	0	31.288
23.6	1.2225	31.3406	0	31.3406
23.6333	1.2248	31.4063	0	31.4063
23.6667	1.2265	31.551	0.0019	31.5529
23.7	1.2268	31.5773	0.0006	31.5779
23.7333	1.2298	31.7219	0.0006	31.7225
23.7667	1.2304	31.7877	0.0006	31.7883
23.8	1.2317	31.8534	0	31.8534
23.8333	1.2344	31.9981	0	31.9981
23.8667	1.2367	32.0901	0	32.0901
23.9	1.2416	32.1296	0	32.1296
23.9333	1.2469	32.2611	0.0006	32.2617
23.9667	1.2554	32.2611	0.0006	32.2617
24 24.0333	1.2574 1.2647	32.3663	0.0006	32.3669 32.5372
24.0553	1.2686	32.5372 32.6293	0.0006	32.5372
24.0667	1.2739	32.6556	0.0006	32.6562
24.1333	1.2785	32.7871	0.0008	32.7871
24.1555	1.2844	32.8791	0	32.8791
24.1007	1.2877	32.9711	0	32.9711
24.2333	1.291	33.1026	0.0019	33.1046
24.2667	1.2943	33.1421	0.0006	33.1427
24.2007	1.2966	33.2604	0.0008	33.2604
24.3333	1.3009	33.2999	0.0006	33.3005



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(,	(psi)	(2.111)	(2.10)	(2.10)
24.3667	1.3051	33.3656	0.0019	33.3676
24.4	1.3094	33.576	0	33.576
24.4333	1.3124	33.6286	0	33.6286
24.4667	1.3121	33.6944	0.0006	33.695
24.5	1.3173	33.747	0	33.747
24.5333	1.32	33.839	0	33.839
24.5667	1.3209	33.9705	0	33.9705
24.6	1.3298	33.9705	0.0006	33.9711
24.6333	1.3357	34.1809	0.0006	34.1815
24.6667	1.3446	34.2598	0	34.2598
24.7	1.3515	34.365	0	34.365
24.7333	1.3571	34.3124	0	34.3124
24.7667	1.3647	34.4176	0.0006	34.4182
24.8	1.3664	34.536	0	34.536
24.8333	1.3772	34.6938	0	34.6938
24.8667	1.3802	34.7727	0	34.7727
24.9	1.3897	34.9042	0	34.9042
24.9333	1.3927	34.9962	0.0006	34.9968
24.9667	1.3976	35.0488	0.0019	35.0507
25	1.4042	35.1409	0.0006	35.1415
25.0333	1.4049	35.2329	0	35.2329
25.0667	1.4114	35.3249	0.0006	35.3255
25.1	1.4151	35.3907	0	35.3907
25.1333	1.4203	35.3907	0.0006	35.3913
25.1667	1.4226	35.5748	0	35.5748
25.2	1.4279	35.6405	0	35.6405
25.2333	1.4299	35.772	0.0006	35.7726
25.2667	1.4345	35.8509	0	35.8509
25.3	1.4351	35.9035	0	35.9035
25.3333	1.4407	36.0745	0	36.0745
25.3667	1.444	36.0745	0.0006	36.0751
25.4	1.449	36.1928	0	36.1928
25.4333	1.4523	36.2454	0.0006	36.246
25.4667	1.4532	36.4164	0.0006	36.417
25.5	1.4565	36.4953	0.0006	36.4959
25.5333	1.4592	36.5873	0.0006	36.5879
25.5667	1.4611	36.6531	0	36.6531
25.6	1.4638	36.7451	0.0006	36.7457
25.6333 25.6667	1.469 1.47	36.7977 36.8635	0.0006	36.7983 36.8635
25.7	1.4737	36.9555	0	36.9555
25.7333 25.7667	1.4756 1.4746	37.0213	0.0019	37.0213
25./66/	1.4/46	37.1396	0.0019	37.1415



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
25.8	1.4812	37.2054	0.0006	37.206
25.8333	1.4822	37.3106	0.0006	37.3112
25.8667	1.4825	37.3763	0.0019	37.3782
25.9	1.4865	37.4815	0.0006	37.4821
25.9333	1.4852	37.521	0.0006	37.5216
25.9667	1.4898	37.6393	0	37.6393
26	1.4908	37.6656	0.0006	37.6662
26.0333	1.4941	37.8102	0	37.8102
26.0667	1.4944	37.876	0	37.876
26.1	1.5013	37.876	0.0006	37.8766
26.1333	1.4987	37.9417	0	37.9417
26.1667	1.501	37.9812	0	37.9812
26.2	1.5029	38.1258	0.0019	38.1278
26.2333	1.5013	38.139	0.0006	38.1396
26.2667	1.5033	38.231	0	38.231
26.3	1.5053	38.3362	0	38.3362
26.3333	1.5072	38.3625	0	38.3625
26.3667	1.5102	38.402	0.0006	38.4026
26.4	1.5102	38.5072	0	38.5072
26.4333	1.5095	38.6124	0.0006	38.613
26.4667	1.5115	38.6518	0	38.6518
26.5	1.5118	38.6913	0.0006	38.6919
26.5333	1.5141	38.7833	0.0006	38.7839
26.5667	1.5151	38.8622	0	38.8622
26.6	1.5158	38.928	0	38.928
26.6333	1.5194	38.928	0.0006	38.9286
26.6667	1.5155	38.9543	0	38.9543
26.7	1.5187	39.0726	0	39.0726
26.7333	1.5201	39.1121	0.0019	39.114
26.7667	1.522	39.2304	0	39.2304
26.8	1.5201	39.283	0	39.283
26.8333	1.5187	39.2962	0.0006	39.2968
26.8667	1.5227	39.3488	0.0019	39.3507
26.9	1.5247	39.4145	0	39.4145
26.9333	1.5237	39.4671	0	39.4671
26.9667	1.525	39.5329	0.0006	39.5335
27	1.5273	39.6118	0.0006	39.6124
27.0333	1.5309	39.6512	0	39.6512
27.0667	1.5299	39.6775	0	39.6775
27.1	1.5345	39.7959	0.0006	39.7965
27.1333	1.5375	39.8485	0.0019	39.8504
27.1667	1.5415	39.7827	0	39.7827
27.2	1.5431	39.9142	0.0006	39.9148



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
27.2333	1.5444	39.98	0	39.98
27.2667	1.5487	40.0326	0	40.0326
27.3	1.5513	40.0589	0	40.0589
27.3333	1.5523	40.1772	0.0006	40.1778
27.3667	1.5569	40.1903	0.0006	40.1909
27.4	1.5553	40.2561	0.0006	40.2567
27.4333	1.5589	40.2955	0.0006	40.2961
27.4667	1.5602	40.335	0	40.335
27.5	1.5599	40.3744	0.0006	40.375
27.5333	1.5602	40.4665	0.0006	40.4671
27.5667	1.5619	40.5059	0.0006	40.5065
27.6	1.5629	40.5848	0	40.5848
27.6333	1.5648	40.6506	0.0006	40.6512
27.6667	1.5704	40.6769	0	40.6769
27.7	1.5714	40.69	0	40.69
27.7333	1.5724	40.8215	0	40.8215
27.7667	1.5714	40.7689	0	40.7689
27.8	1.574	40.9136	0.0006	40.9142
27.8333	1.5754	40.9267	0.0006	40.9273
27.8667	1.5777	40.9399	0	40.9399
27.9	1.576	40.9793	0.0019	40.9812
27.9333	1.5763	41.0582	0	41.0582
27.9667	1.5796	41.0845	0.0006	41.0851
28	1.5793	41.0977	0	41.0977
28.0333	1.5833	41.1503	0.0006	41.1509
28.0667	1.5859	41.2292	0.0006	41.2298
28.1	1.5846	41.2555	0	41.2555
28.1333	1.5842	41.3607	0.0006	41.3613
28.1667 28.2	1.5862 1.5869	41.3475	0.0006	41.3481
28.2333	1.5869	41.4133 41.479	0.0006	41.4139 41.479
28.2667	1.5882	41.479	0	41.479
28.2667	1.5885	41.5579	0	41.5579
28.3333	1.5889	41.5448	0.0006	41.5454
28.3667	1.5902	41.6105	0.0008	41.6105
28.4	1.5921	41.7026	0.0006	41.7032
28.4333	1.5908	41.6763	0.0008	41.6763
28.4667	1.5912	41.6894	0.0019	41.6913
28.5	1.5879	41.7289	0.0019	41.7289
28.5333	1.5941	41.8472	0	41.7283
28.5667	1.5958	41.8604	0	41.8604
28.6	1.5925	41.913	0.0006	41.9136
28.6333	1.5925	41.8998	0.0008	41.8998
20.0333	1.3323	41.0550	U	41.0550



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,,		(=====,		
28.6667	1.5954	42.005	0.0006	42.0056
28.7	1.5941	41.9787	0.0006	41.9793
28.7333	1.5951	42.0576	0.0006	42.0582
28.7667	1.5964	42.0839	0	42.0839
28.8	1.5938	42.1497	0	42.1497
28.8333	1.5977	42.1102	0	42.1102
28.8667	1.6004	42.1891	0.0006	42.1897
28.9	1.5977	42.2154	0.0019	42.2173
28.9333	1.5984	42.2549	0.0019	42.2568
28.9667	1.6017	42.3206	0	42.3206
29	1.5994	42.3469	0.0006	42.3475
29.0333	1.5964	42.3864	0.0019	42.3883
29.0667	1.603	42.4521	0.0006	42.4527
29.1	1.601	42.4521	0	42.4521
29.1333	1.602	42.5047	0.0006	42.5053
29.1667	1.6007	42.4653	0.0006	42.4658
29.2	1.602	42.5047	0.0032	42.5079
29.2333	1.601	42.5441	0.0006	42.5447
29.2667	1.6004	42.623	0	42.623
29.3	1.6	42.6362	0.0006	42.6368
29.3333	1.6027	42.6362	0.0019	42.6381
29.3667	1.6023	42.6625	0.0006	42.6631
29.4	1.604	42.6493	0	42.6493
29.4333	1.603	42.7019	0.0006	42.7025
29.4667	1.605	42.7545	0	42.7545
29.5	1.6033	42.7414	0	42.7414
29.5333 29.5667	1.603	42.7808	0.0006	42.7814
29.5667	1.6043	42.7677 42.886	0	42.7677 42.886
29.6333	1.6056	42.8334	0.0019	42.8354
29.6667	1.6079	42.8203	0.0019	42.8209
29.7	1.6093	42.9386	0.0006	42.9392
29.7333	1.6102	42.8992	0.0006	42.8998
29.7667	1.6135	42.9518	0.0000	42.9518
29.8	1.6135	42.9649	0.0006	42.9655
29.8333	1.6116	42.9912	0.0000	42.9912
29.8667	1.6109	43.0964	0	43.0964
29.9	1.6132	43.0438	0.0006	43.0444
29.9333	1.6175	43.0307	0.0006	43.0313
29.9667	1.6149	43.1096	0	43.1096
30	1.6188	43.0964	0	43.0964
30.0333	1.6172	43.1359	0.0006	43.1365
30.0667	1.6185	43.1227	0.0006	43.1233



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
30.1	1.6175	43.1753	0.0006	43.1759
30.1333	1.6185	43.1885	0.0006	43.1891
30.1667	1.6208	43.1885	0.0006	43.1891
30.2	1.6198	43.3463	0	43.3463
30.2333	1.6224	43.2805	0.0006	43.2811
30.2667	1.6244	43.3463	0.0006	43.3469
30.3	1.6204	43.3989	0	43.3989
30.3333	1.6204	43.32	0.0006	43.3206
30.3667	1.6208	43.4515	0.0006	43.4521
30.4	1.6218	43.412	0.0006	43.4126
30.4333	1.6241	43.4515	0	43.4515
30.4667	1.6234	43.4778	0	43.4778
30.5	1.6247	43.4909	0.0006	43.4915
30.5333	1.6237	43.5304	0	43.5304
30.5667	1.6254	43.5567	0	43.5567
30.6	1.6241	43.5172	0	43.5172
30.6333	1.626	43.583	0.0006	43.5836
30.6667	1.6274	43.6093	0.0006	43.6099
30.7	1.627	43.583	0.0006	43.5836
30.7333	1.629	43.6093	0.0019	43.6112
30.7667	1.628	43.6619	0.0006	43.6625
30.8	1.6283	43.6882	0.0032	43.6914
30.8333	1.6283	43.6882	0.0019	43.6901
30.8667	1.6277	43.675	0.0006	43.6756
30.9	1.6287	43.7539	0.0006	43.7545
30.9333	1.6277	43.7408	0.0006	43.7414
30.9667	1.628	43.7934	0.0006	43.794
31	1.6287	43.7276	0	43.7276
31.0333	1.6293	43.7934	0.0006	43.794
31.0667	1.6297	43.8723	0	43.8723
31.1	1.6313	43.8328	0.0006	43.8334
31.1333	1.6339	43.846	0	43.846
31.1667	1.6343	43.8854	0.0006	43.886
31.2	1.6336	43.9512	0.0006	43.9518
31.2333	1.6313	43.9512	0.0006	43.9518
31.2667	1.6326	43.938	0.0006	43.9386
31.3	1.6349	43.9512	0	43.9512
31.3333	1.6323	43.8854	0.0006	43.886
31.3667	1.6326	43.9512	0.0006	43.9518
31.4	1.631	43.938	0.0006	43.9386
31.4333	1.6313	44.0169	0	44.0169
31.4667 31.5	1.6356	43.9512	0	43.9512
31.5	1.6333	44.0301	U	44.0301



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
31.5333	1.6346	44.0038	0.0006	44.0044
31.5667	1.6359	44.0958	0	44.0958
31.6	1.6362	44.0432	0.0006	44.0438
31.6333	1.6346	44.1221	0	44.1221
31.6667	1.6346	44.0432	0.0019	44.0451
31.7	1.6353	44.0564	0.0006	44.057
31.7333	1.6346	44.109	0	44.109
31.7667	1.6369	44.1353	0.0006	44.1359
31.8	1.6343	44.1484	0	44.1484
31.8333	1.6372	44.1353	0	44.1353
31.8667	1.6376	44.1221	0.0006	44.1227
31.9	1.6386	44.2536	0.0006	44.2542
31.9333	1.6366	44.2142	0.0006	44.2148
31.9667	1.6372	44.1221	0.0006	44.1227
32	1.6392	44.1879	0	44.1879
32.0333	1.6376	44.201	0	44.201
32.0667	1.6395	44.2668	0.0006	44.2674
32.1	1.6369	44.3325	0.0006	44.3331
32.1333	1.6432	44.2799	0.0006	44.2805
32.1667	1.6362	44.2799	0.0019	44.2818
32.2	1.6353	44.2405	0.0019	44.2424
32.2333 32.2667	1.6349	44.2273 44.3325	0.0006	44.2279 44.3331
	1.633		0.0006	
32.3	1.6326	44.3062	0.0019	44.3081
32.3333 32.3667	1.6333	44.372 44.2536	0.0006	44.3726 44.2536
	1.6303			
32.4 32.4333	1.627 1.626	44.372 44.2799	0.0006	44.3726 44.2805
32.4667	1.627	44.3325	0.0008	44.3325
32.4667	1.6234	44.2668	0.0006	44.3323
32.5333	1.6244	44.2008	0.0008	44.2074
32.5667	1.6201	44.3194	0.0006	44.32
32.3007	1.6228	44.3194	0.0000	44.3194
32.6333	1.6241	44.3194	0.0006	44.32
32.6667	1.6254	44.3325	0.0006	44.3331
32.0007	1.6211	44.3457	0.0019	44.3476
32.7333	1.6224	44.3851	0.0019	44.3851
32.7667	1.6241	44.3457	0	44.3457
32.7667	1.6208	44.2668	0	44.2668
32.8333	1.6214	44.3062	0	44.3062
32.8667	1.6224	44.3325	0.0019	44.3344
32.8007	1.6251	44.3062	0.0019	44.3081
32.9333	1.6244	44.3194	0.0019	44.3194
32.3333	1.0244	44.3134	U	44.3134



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
32.9667	1.6231	44.372	0.0006	44.3726
33	1.6251	44.4114	0.0006	44.412
33.0333	1.6241	44.3588	0	44.3588
33.0667	1.6231	44.4377	0	44.4377
33.1	1.6237	44.3062	0	44.3062
33.1333	1.6214	44.2799	0	44.2799
33.1667	1.6254	44.3588	0	44.3588
33.2	1.6228	44.3588	0	44.3588
33.2333	1.6224	44.3588	0.0006	44.3594
33.2667	1.626	44.464	0	44.464
33.3	1.626	44.3588	0	44.3588
33.3333	1.6241	44.372	0.0006	44.3726
33.3667	1.6234	44.4509	0.0006	44.4515
33.4	1.6247	44.3457	0	44.3457
33.4333	1.6228	44.4114	0.0006	44.412
33.4667	1.6247	44.4114	0.0006	44.412
33.5	1.6247	44.3983	0.0006	44.3989
33.5333	1.6228	44.4114	0.0006	44.412
33.5667	1.6231	44.4509	0	44.4509
33.6	1.6254	44.4246	0	44.4246
33.6333	1.6257	44.4114	0.0006	44.412
33.6667	1.6218	44.4114	0.0006	44.412
33.7	1.6224	44.4114	0	44.4114
33.7333	1.6231	44.4246	0	44.4246
33.7667	1.6251	44.464	0.0006	44.4646
33.8	1.6228	44.3851	0	44.3851
33.8333	1.627	44.4377	0	44.4377
33.8667	1.6247	44.4772	0	44.4772
33.9	1.6247	44.4114	0.0006	44.412
33.9333 33.9667	1.6231 1.6267	44.3983 44.5035	0.0006	44.3983 44.5041
33.9667	1.6247	44.5035	0.0006	44.5035
34.0333	1.6254	44.3325	0	44.3325
34.0667	1.6234	44.3323	0	44.4246
34.0007	1.6241	44.4377	0.0006	44.4383
34.1333	1.6251	44.4377	0.0006	44.4383
34.1667	1.6244	44.4509	0.0006	44.4515
34.2	1.6228	44.4377	0.0006	44.4383
34.2333	1.6224	44.4903	0.0000	44.4903
34.2667	1.6237	44.5429	0.0006	44.5435
34.3	1.6257	44.5166	0.0019	44.5185
34.3333	1.6234	44.5035	0.0013	44.5035
34.3667	1.6237	44.4509	0.0006	44.4515
34.3007	1.0237	44.4505	0.0000	44.4515



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
34.4	1.6204	44.464	0	44.464
34.4333	1.6267	44.5035	0.0006	44.5041
34.4667	1.6228	44.5166	0	44.5166
34.5	1.6251	44.4509	0.0006	44.4515
34.5333	1.6221	44.464	0	44.464
34.5667	1.626	44.4114	0	44.4114
34.6	1.6247	44.4903	0	44.4903
34.6333	1.6244	44.4772	0	44.4772
34.6667	1.6244	44.4509	0.0006	44.4515
34.7	1.6234	44.5166	0.0006	44.5172
34.7333	1.6237	44.5561	0.0006	44.5567
34.7667	1.6241	44.5166	0.0006	44.5172
34.8	1.6231	44.4772	0	44.4772
34.8333	1.6257	44.4903	0.0006	44.4909
34.8667	1.6214	44.5692	0	44.5692
34.9	1.6224	44.5166	0	44.5166
34.9333	1.6254	44.5692	0	44.5692
34.9667	1.6254	44.5561	0	44.5561
35	1.6244	44.5166	0.0006	44.5172
35.0333	1.6247	44.5166	0	44.5166
35.0667	1.6241	44.5035	0.0019	44.5054
35.1	1.6254	44.5166	0	44.5166
35.1333	1.6241	44.5298	0.0032	44.533
35.1667	1.6257	44.5429	0	44.5429
35.2	1.626	44.5298	0.0019	44.5317
35.2333	1.6244	44.4772	0	44.4772
35.2667	1.6254	44.5166	0.0006	44.5172
35.3 35.3333	1.6208 1.6241	44.5166 44.5429	0.0006	44.5172 44.5435
35.3667	1.6241	44.5429	0.0006	44.5561
35.3667	1.6214	44.4903	0.0019	44.4922
35.4333	1.6264	44.4772	0.0013	44.4772
35.4667	1.6221	44.6218	0	44.6218
35.4007	1.6204	44.5824	0.0006	44.583
35.5333	1.6234	44.5692	0.0000	44.5692
35.5667	1.6234	44.5429	0	44.5429
35.6	1.6247	44.5824	0.0006	44.583
35.6333	1.6224	44.5824	0.0000	44.5824
35.6667	1.6221	44.5692	0.0019	44.5711
35.7	1.6237	44.6087	0.0019	44.6106
35.7333	1.6224	44.5429	0.0006	44.5435
35.7667	1.6241	44.5955	0.0019	44.5974
35.8	1.6228	44.5692	0.0013	44.5692
5				



Project No. G100982213SAT-003

Time (min)	Ch 1 dP	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow
,		,		
35.8333	1.6247	44.6087	0.0006	44.6093
35.8667	1.6224	44.5692	0.0006	44.5698
35.9	1.6241	44.5692	0.0006	44.5698
35.9333	1.6244	44.6087	0.0019	44.6106
35.9667	1.6228	44.5692	0.0006	44.5698
36	1.6231	44.635	0.0006	44.6356
36.0333	1.6244	44.5035	0.0006	44.5041
36.0667	1.6241	44.5824	0	44.5824
36.1	1.6251	44.5561	0.0006	44.5567
36.1333	1.6234	44.5561	0.0006	44.5567
36.1667	1.6247	44.5561	0.0006	44.5567
36.2	1.6224	44.5824	0.0006	44.583
36.2333	1.6208	44.5692	0.0006	44.5698
36.2667	1.6231	44.5692	0	44.5692
36.3	1.6231	44.6087	0	44.6087
36.3333	1.6247	44.5824	0	44.5824
36.3667	1.6234	44.5166	0.0006	44.5172
36.4	1.6237	44.5692	0	44.5692
36.4333	1.6234	44.5955	0.0006	44.5961
36.4667	1.6221	44.6218	0	44.6218
36.5	1.6241	44.5824	0.0006	44.583
36.5333	1.6122	44.5035	0.0006	44.5041
36.5667	1.5856	44.5824	0	44.5824
36.6	1.549	44.5429	0.0006	44.5435
36.6333	1.4776	42.268	10.0128	52.2808
36.6667	1.4022	40.6111	15.7947	56.4059
36.7	1.3292	40.3744	14.8401	55.2145
36.7333	1.2643	40.0589	14.1168	54.1757
36.7667	1.1982	39.6512	13.604	53.2552
36.8	1.1402	39.3225	13.2319	52.5543
36.8333	1.0833	38.9543	12.9163	51.8705
36.8667	1.0362	38.5729	12.6664	51.2394
36.9	0.9826	38.0601	12.4166	50.4767
36.9333	0.9359 0.8921	37.6656 37.2448	12.218	49.8836 49.2616
36.9667 37	0.8921	37.2448 36.7583	12.0168 11.8209	49.2616
37.0333	0.8499	36.3769	11.625	48.0019
37.0667	0.7749	35.9167	11.4238	47.3405
37.0667	0.7749	35.417	11.4238	46.6225
37.1333	0.7413	34.8779	11.0253	45.9032
37.1667	0.6742	34.4308	10.8189	45.2496
37.1667	0.6449	33.9837	10.6229	45.2496
37.2333	0.6156	33.4445	10.6229	43.8597
37.2333	0.0130	33.4443	10.4132	43.0357



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
37.2667	0.5893	32.9448	10.2153	43.1602
37.3	0.5623	32.5504	10.0181	42.5684
37.3333	0.5389	31.9718	9.7893	41.761
37.3667	0.5113	31.5247	9.5986	41.1233
37.4	0.4895	30.9855	9.3869	40.3724
37.4333	0.4668	30.5121	9.1646	39.6768
37.4667	0.4474	30.0256	8.9766	39.0022
37.5	0.4254	29.4602	8.7425	38.2027
37.5333	0.405	28.9605	8.5532	37.5137
37.5667	0.3855	28.4739	8.3191	36.7931
37.6	0.3697	27.9611	8.1206	36.0817
37.6333	0.3516	27.5403	7.9194	35.4597
37.6667	0.3342	27.0143	7.7182	34.7325
37.7	0.3177	26.5146	7.5222	34.0369
37.7333	0.3019	26.0807	7.3145	33.3952
37.7667	0.2884	25.5021	7.1199	32.622
37.8	0.2746	25.055	6.9134	31.9684
37.8333	0.2605	24.5027	6.7319	31.2347
37.8667	0.2476	24.0293	6.5321	30.5614
37.9	0.2348	23.5165	6.3467	29.8632
37.9333	0.219	23.0037	6.1626	29.1662
37.9667	0.2118	22.5171	5.9798	28.4969
38	0.1999	22.0569	5.8062	27.8631
38.0333	0.1874	21.5835	5.6116	27.1951
38.0667	0.1785	21.018	5.4262	26.4442
38.1	0.1686	20.5184	5.2631	25.7815
38.1333	0.1565	20.0318	5.0987	25.1306
38.1667	0.1496	19.5584	4.9475	24.506
38.2	0.1393	19.1508	4.7884	23.9392
38.2333	0.1311	18.5327	4.6135	23.1463
38.2667	0.1219	18.0988	4.4636	22.5624
38.3	0.1157	17.6123	4.3098	21.922
38.3333	0.1081	17.1652	4.1677	21.3329
38.3667	0.0999	16.6655	3.9968	20.6623
38.4	0.0949	16.1789	3.8522	20.0311
38.4333	0.0873	15.7845	3.7075	19.492
38.4667	0.0811	15.3505	3.5629	18.9134
38.5	0.0742	14.9034	3.4498	18.3532
38.5333	0.0673	14.43	3.3156	17.7457
38.5667	0.0613	13.9566	3.1697	17.1263
38.6	0.06	13.5753	3.05	16.6253
38.6333	0.0541	13.1545	2.9264	16.0809
38.6667	0.0475	12.6943	2.8015	15.4958



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
38.7	0.0452	12.234	2.6858	14.9198
38.7333	0.0363	11.8527	2.5648	14.4175
38.7667	0.0386	11.4582	2.4596	13.9178
38.8	0.0324	11.1163	2.3518	13.4681
38.8333	0.0268	10.6561	2.2479	12.9039
38.8667	0.0245	10.2879	2.1453	12.4332
38.9	0.0189	9.8802	2.048	11.9282
38.9333	0.0189	9.5252	1.9533	11.4785
38.9667	0.0153	9.1438	1.8652	11.0091
39	0.011	8.8677	1.7758	10.6435
39.0333	0.01	8.5127	1.6877	10.2004
39.0667	0.0047	8.1576	1.6088	9.7664
39.1	0.0031	7.8552	1.5273	9.3825
39.1333	0.0021	7.579	1.4497	9.0287
39.1667	-0.0025	7.2108	1.38	8.5908
39.2	-0.0022	6.9347	1.3077	8.2424
39.2333	-0.0022	6.6585	1.2419	7.9005
39.2667	-0.0048	6.3824	1.1762	7.5586
39.3	-0.0048	6.0931	1.1039	7.197
39.3333	-0.0078	5.8301	1.0526	6.8827
39.3667	-0.0111	5.6329	0.996	6.6289
39.4	-0.0134	5.383	0.9369	6.3199
39.4333	-0.0117	5.0937	0.8908	5.9846
39.4667	-0.0127	4.8833	0.8343	5.7176
39.5	-0.015	4.6861	0.7922	5.4783
39.5333	-0.0183	4.4757	0.7501	5.2258
39.5667	-0.0137	4.2653	0.7067	4.972
39.6	-0.0163	4.068	0.6673	4.7353
39.6333	-0.016	3.8708	0.6292	4.5
39.6667	-0.02	3.6999	0.5937	4.2935
39.7	-0.0209	3.5421	0.5568	4.0989
39.7333	-0.0206	3.3974	0.5279	3.9253
39.7667	-0.0183	3.2265	0.4977	3.7241
39.8	-0.0213	3.0424	0.47	3.5124
39.8333	-0.0219	0	0.4398	0.4398
39.8667	-0.0196	0.0048	0.4188	0.4235
39.9	-0.0196	0	0.3911	0.3911
39.9333	-0.018	0.0048	0.3727	0.3775
39.9667	-0.0206	0	0.3556	0.3556
40	-0.0223	0	0.3307	0.3307
40.0333	-0.0229	0	0.3136	0.3136
40.0667	-0.0232	0.0179	0.0006	0.0185
40.1	-0.0213	0	0.0006	0.0006



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
40.1333	-0.0223	0.0048	0	0.0048
40.1667	-0.0216	0	0	0
40.2	-0.0223	0	0.0006	0.0006
40.2333	-0.0203	0.0179	0.0006	0.0185
40.2667	-0.0232	0	0	0
40.3	-0.015	0	0.0006	0.0006
40.3333	-0.018	0.0048	0.0006	0.0054
40.3667	-0.0183	0	0.0006	0.0006
40.4	-0.0226	0	0	0
40.4333	-0.0229	0.0048	0.0006	0.0054
40.4667	-0.0295	0.0048	0	0.0048
40.5	-0.0302	0	0	0
40.5333	-0.0302	0.0048	0.0006	0.0054
40.5667	-0.0298	0.0048	0.0006	0.0054
40.6	-0.0311	0	0.0006	0.0006
40.6333	-0.0292	0.0048	0.0006	0.0054
40.6667	-0.0315	0	0	0
40.7	-0.0308	0	0.0006	0.0006
40.7333	-0.0302	0	0.0006	0.0006
40.7667	-0.0305	0	0	0.0054
40.8 40.8333	-0.0308	0.0048	0.0006	0.0054
40.8333	-0.0173 -0.0163	0	0	0
40.8667	-0.0163	0	0.0006	0.0006
40.9333	-0.0213	0.0048	0.0008	0.0008
40.9667	-0.0213	0.0179	0	0.0048
41	-0.0216	0.0175	0.0006	0.0006
41.0333	-0.0210	0.0048	0.0006	0.0054
41.0667	-0.0236	0	0	0
41.1	-0.0269	0	0	0
41.1333	-0.0242	0	0	0
41.1667	-0.0285	0	0.0006	0.0006
41.2	-0.0223	0	0	0
41.2333	-0.0262	0.0048	0.0006	0.0054
41.2667	-0.0275	0	0	0
41.3	-0.0239	0	0	0
41.3333	-0.0242	0	0	0
41.3667	-0.0025	0.0048	0	0.0048
41.4	0.0462	0.0048	0	0.0048
41.4333	0.092	0	0	0
41.4667	0.1328	0	0	0
41.5	0.17	0.0048	0	0.0048
41.5333	0.2091	0.0048	0.0006	0.0054



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,				
41.5667	0.242	0	0	0
41.6	0.2773	0	0	0
41.6333	0.3072	0	0	0
41.6667	0.3385	0	0.0006	0.0006
41.7	0.3681	0.0048	0.0006	0.0054
41.7333	0.3977	0.0048	0.0006	0.0054
41.7667	0.4244	0	0	0
41.8	0.4517	0	0	0
41.8333	0.4751	0.0048	0.0006	0.0054
41.8667	0.4978	0	0	0
41.9	0.5198	8.4732	0	8.4732
41.9333	0.5439	8.8019	0.0006	8.8025
41.9667	0.5646	9.2096	0.0006	9.2102
42	0.5843	9.6435	0.0006	9.6441
42.0333	0.6061	9.9591	0	9.9591
42.0667	0.6248	10.2221	0.0006	10.2227
42.1	0.6403	10.564	0.0006	10.5646
42.1333	0.66	10.9454	0	10.9454
42.1667	0.6775	11.2083	0.0006	11.2089
42.2	0.692	11.5502	0.0019	11.5522
42.2333	0.7091	11.8395	0.0006	11.8401
42.2667	0.7262	12.1025	0	12.1025
42.3	0.7446	12.4313	0	12.4313
42.3333	0.7565	12.6811	0	12.6811
42.3667	0.7693	12.9836	0.0006	12.9842
42.4	0.7845	13.2203	0	13.2203
42.4333	0.7993	13.4438	0.0032	13.447
42.4667	0.8151	13.6936	0	13.6936 13.8646
42.5 42.5333	0.8279 0.8434	13.8646 14.1539	0	14.1539
42.5333	0.8572	14.1339	0.0019	14.1339
42.5667	0.8667	14.5352	0.0019	14.5355
42.6333	0.8806	14.7588	0	14.7588
42.6667	0.8947	14.9823	0	14.7388
42.0007	0.902	15.1533	0	15.1533
42.7333	0.902	15.39	0	15.1535
42.7667	0.9276	15.6004	0	15.6004
42.7007	0.9388	15.7582	0.0006	15.7588
42.8333	0.947	15.9817	0.0008	15.9817
42.8667	0.9582	16.1	0.0006	16.1006
42.9	0.9681	16.3236	0.0000	16.3236
42.9333	0.9767	16.5208	0	16.5208
42.9667	0.9885	16.6655	0.0006	16.6661
		20.0000	0.000	



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,		,		(,
43	0.999	16.8759	0.0006	16.8765
43.0333	1.0063	17.0468	0	17.0468
43.0667	1.0188	17.2046	0	17.2046
43.1	1.0257	17.415	0.0006	17.4156
43.1333	1.0303	17.5465	0.0006	17.5471
43.1667	1.0425	17.678	0.0006	17.6786
43.2	1.0487	17.8227	0	17.8227
43.2333	1.0586	17.9673	0.0006	17.9679
43.2667	1.0639	18.1251	0.0019	18.127
43.3	1.0711	18.2566	0.0006	18.2572
43.3333	1.0794	18.4144	0	18.4144
43.3667	1.0879	18.5459	0	18.5459
43.4	1.0935	18.6905	0.0006	18.6911
43.4333	1.1031	18.7694	0.0006	18.77
43.4667	1.108	18.9798	0.0006	18.9804
43.5	1.1162	19.1113	0	19.1113
43.5333	1.1225	19.2428	0	19.2428
43.5667	1.1284	19.3875	0	19.3875
43.6	1.1356	19.519	0.0006	19.5196
43.6333	1.1416	19.611	0.0019	19.6129
43.6667	1.1465	19.7294	0.0006	19.73
43.7	1.1528	19.8477	0	19.8477
43.7333	1.1583	19.9661	0	19.9661
43.7667	1.1659	20.045	0	20.045
43.8	1.1689	20.1633	0	20.1633
43.8333	1.1732	20.2817	0	20.2817
43.8667	1.1811	20.4	0	20.4
43.9	1.186	20.4658	0.0006	20.4664
43.9333	1.1886	20.5841	0.0006	20.5847
43.9667	1.1932	20.7156	0.0006	20.7162
44	1.1998	20.8077	0	20.8077
44.0333	1.2041	20.8997	0	20.8997
44.0667	1.2107	21.0049	0	21.0049
44.1	1.214	21.1101	0.0006	21.1107
44.1333	1.2176	21.2284	0	21.2284
44.1667	1.2219	21.281	0.0019	21.283
44.2	1.2245	21.3599	0.0006	21.3605
44.2333	1.2268	21.4783	0	21.4783
44.2667 44.3	1.2337 1.236	21.5835 21.6229	0.0006	21.5841 21.6229
	1.236			
44.3333 44.3667		21.6887	0.0006	21.6887
44.3667	1.2436 1.2462	21.7807 21.8596	0.0006	21.7813 21.8596
44.4	1.2462	21.8596	U	21.8596



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(рэт)	(El IVI)	(Li ivi)	(21 141)
44.4333	1.2479	22.0174	0.0006	22.018
44.4667	1.2518	22.0306	0.0006	22.0312
44.5	1.2545	22.1489	0	22.1489
44.5333	1.2587	22.2278	0	22.2278
44.5667	1.2607	22.2936	0.0006	22.2942
44.6	1.2673	22.3856	0.0006	22.3862
44.6333	1.2689	22.4514	0.0006	22.452
44.6667	1.2686	22.504	0.0006	22.5046
44.7	1.2712	22.5566	0	22.5566
44.7333	1.2762	22.6223	0.0006	22.6229
44.7667	1.2775	22.7801	0	22.7801
44.8	1.2837	22.7801	0	22.7801
44.8333	1.2834	22.8459	0.0019	22.8478
44.8667	1.2847	22.8459	0	22.8459
44.9	1.2874	22.9248	0.0006	22.9254
44.9333	1.29	22.9905	0.0006	22.9911
44.9667	1.2939	23.0826	0	23.0826
45	1.2933	23.1746	0.0019	23.1765
45.0333	1.2999	23.2141	0.0006	23.2146
45.0667	1.3012	23.2404	0	23.2404
45.1	1.3025	23.385	0	23.385
45.1333	1.3025	23.3324	0	23.3324
45.1667	1.3071	23.4639	0	23.4639
45.2	1.3068	23.4507	0.0006	23.4513
45.2333	1.3081	23.5559	0	23.5559
45.2667	1.3137	23.6348	0	23.6348
45.3	1.3147	23.6611	0	23.6611
45.3333	1.3147	23.7006	0	23.7006
45.3667	1.3153	23.74	0.0006	23.7406
45.4	1.3167	23.8189	0.0006	23.8195
45.4333	1.3167	23.8847	0.0006	23.8853
45.4667	1.3223	23.9373	0	23.9373
45.5	1.3213	24.003	0	24.003
45.5333	1.3213	24.0556	0.0006	24.0562
45.5667	1.3252	23.9899	0.0006	23.9905
45.6	1.3275	24.1082	0	24.1082
45.6333	1.3265	24.1477	0	24.1477
45.6667	1.3305	24.2003	0.0006	24.2009
45.7	1.3334	24.266	0	24.266
45.7333	1.3318	24.2923	0.0006	24.2929
45.7667	1.3315	24.3186	0.0006	24.3192
45.8 45.8333	1.3344	24.3712 24.4501	0.0019	24.3712 24.452
45.8333	1.5544	24.4501	0.0019	24.452



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
45.8667	1.3348	24.437	0.0006	24.4376
45.9	1.3348	24.5027	0.0006	24.5033
45.9333	1.3417	24.5159	0	24.5159
45.9667	1.3515	24.5553	0	24.5553
46	1.3562	24.6211	0.0006	24.6217
46.0333	1.3614	24.6474	0	24.6474
46.0667	1.3677	24.6868	0	24.6868
46.1	1.3752	24.7394	0	24.7394
46.1333	1.3795	24.8052	0	24.8052
46.1667	1.3831	24.8841	0.0006	24.8847
46.2	1.3901	24.8841	0	24.8841
46.2333	1.3933	24.963	0.0006	24.9636
46.2667	1.4022	24.9761	0.0006	24.9767
46.3	1.4062	25.0682	0	25.0682
46.3333	1.4105	25.1076	0	25.1076
46.3667	1.4151	25.1208	0.0019	25.1227
46.4	1.4217	25.1602	0	25.1602
46.4333	1.423	25.1997	0	25.1997
46.4667	1.4259	25.2654	0.0006	25.266
46.5	1.4319	25.2523	0	25.2523
46.5333	1.4312	25.3706	0	25.3706
46.5667	1.4361	25.4364	0	25.4364
46.6	1.4407	25.4758	0.0019	25.4777
46.6333	1.4417	25.489	0.0006	25.4896
46.6667	1.449	25.5547	0.0006	25.5553
46.7	1.4506	25.6205	0.0006	25.621
46.7333	1.4513	25.6468	0.0006	25.6473
46.7667	1.4559	25.6468	0	25.6468
46.8	1.4582	25.8177	0	25.8177
46.8333 46.8667	1.4608	25.7651 25.8177	0.0006	25.7651 25.8183
46.8667	1.4633	25.8177	0.0006	25.8183
46.9333	1.4671	25.8834	0.0006	25.8834
46.9667	1.474	25.9492	0	25.9492
40.9667	1.474	26.0018	0.0006	26.0024
47.0333	1.4789	26.0544	0.0006	26.0024
47.0667	1.4809	26.0938	0.0008	26.0938
47.1	1.4829	26.1727	0	26.1727
47.1333	1.4839	26.199	0	26.199
47.1667	1.4829	26.2122	0	26.2122
47.1007	1.4891	26.2648	0	26.2648
47.2333	1.4868	26.3174	0.0006	26.318
47.2667	1.4931	26.3437	0.0006	26.3443
77.2007	1.7331	20.3437	0.0000	20.3443



Project No. G100982213SAT-003

(min) (psi) (LPM) (LPM) (LPM) 47.3 1.4924 26.3437 0 26.4094 47.3667 1.4947 26.4226 0.0006 26.4936 47.4 1.4964 26.3963 0.0006 26.3969 47.4333 1.4997 26.5278 0.0006 26.5284 47.4667 1.5026 26.5672 0.0006 26.5378 47.5 1.5023 26.633 0 26.633 47.5333 1.5043 26.6067 0 26.6856 47.5667 1.5082 26.6724 0 26.6856 47.6 1.5082 26.8039 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.7382 47.7667 1.5112 26.8039 0 26.8039 47.781 1.5112 26.8039 0 26.9039 47.8067 1.5161 26.9049 0 26.	Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
47.3333 1.496 26.4094 0 26.4094 47.3667 1.4947 26.4226 0.0006 26.4322 47.4 1.4964 26.3963 0.0006 26.5284 47.4333 1.4997 26.5278 0.0006 26.5284 47.4667 1.5026 26.5672 0.0006 26.5678 47.5 1.5023 26.633 0 26.633 47.5333 1.5043 26.6067 0 26.6856 47.667 1.5036 26.6856 0 26.6854 47.6333 1.5105 26.725 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.9392 47.7667 1.5112 26.9091 0 26.9091 47.8 1.5125 26.896 0.0006 26.8946 47.8333 1.5151 26.8928 0.0006 26.8834 47.8667 1.5161 26.9749 0	(min)	(psi)	(LPM)	(LPM)	(LPM)
47.3333 1.496 26.4094 0 26.4094 47.3667 1.4947 26.4226 0.0006 26.4322 47.4 1.4964 26.3963 0.0006 26.5284 47.4333 1.4997 26.5278 0.0006 26.5284 47.4667 1.5026 26.5672 0.0006 26.5678 47.5 1.5023 26.633 0 26.633 47.5333 1.5043 26.6067 0 26.6856 47.667 1.5036 26.6856 0 26.6854 47.6333 1.5105 26.725 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.9392 47.7667 1.5112 26.9091 0 26.9091 47.8 1.5125 26.896 0.0006 26.8946 47.8333 1.5151 26.8928 0.0006 26.8834 47.8667 1.5161 26.9749 0					00.040=
47.3667 1.4947 26.4226 0.0006 26.4323 47.4 1.4964 26.3963 0.0006 26.3969 47.4333 1.4997 26.5278 0.0006 26.5284 47.4667 1.5026 26.5672 0.0006 26.5678 47.5 1.5023 26.633 0 26.633 47.5333 1.5043 26.6067 0 26.6856 47.6 1.5082 26.6724 0 26.6724 47.6333 1.5105 26.725 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.7382 47.7 1.5099 26.7382 0 26.8039 47.7667 1.5112 26.8039 0 26.8939 47.7833 1.5152 26.8039 0 26.8939 47.78133 1.5151 26.896 0.0006 26.8934 47.8667 1.5161 26.9091 0 26.9293 47.88667 1.5161 26.9749 0					
47.4 1.4964 26.3963 0.0006 26.3969 47.4333 1.4997 26.5278 0.0006 26.5284 47.4667 1.5026 26.5672 0.0006 26.5678 47.5 1.5023 26.633 0 26.633 47.5333 1.5043 26.6067 0 26.6856 47.6667 1.5082 26.6724 0 26.6724 47.6333 1.5105 26.725 0.0006 26.7254 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.7382 47.7333 1.5112 26.8039 0 26.8039 47.7667 1.5112 26.8039 0 26.9339 47.7833 1.5151 26.8991 0 26.9091 47.881,5125 26.896 0.0006 26.8966 47.89333 1.5151 26.9091 0 26.9749 47.991,5184 26.9223 0 26.9223					
47.4333 1.4997 26.5278 0.0006 26.5284 47.4667 1.5026 26.5672 0.0006 26.5678 47.5 1.5023 26.633 0 26.633 47.5333 1.5043 26.6067 0 26.6856 47.6 1.5082 26.6724 0 26.725 47.6333 1.5105 26.725 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.8045 47.7333 1.5112 26.8039 0 26.8039 47.767 1.5112 26.8039 0 26.8039 47.815152 26.896 0.0006 26.8939 47.781533 1.5112 26.9091 0 26.9091 47.81512 26.896 0.0006 26.8966 47.8233 1.5151 26.923 0 26.923 47.92154 2.5161 26.9223 0 26.9223 <t< th=""><th></th><th></th><th></th><th></th><th></th></t<>					
47.4667 1.5026 26.5672 0.0006 26.538 47.5 1.5023 26.633 0 26.633 47.5333 1.5043 26.6067 0 26.6856 47.6 1.5082 26.6724 0 26.6724 47.6333 1.5105 26.725 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.8039 47.7667 1.5112 26.8039 0 26.9091 47.8 1.5125 26.896 0.0006 26.8939 47.8333 1.5155 26.896 0.0006 26.8939 47.84867 1.5161 26.9749 0 26.9091 47.8533 1.5155 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0075 0.0006 <					
47.5 1.5023 26.633 0 26.6067 47.5333 1.5043 26.6067 0 26.6067 47.5667 1.5036 26.6856 0 26.6856 47.6 1.5082 26.6724 0 26.724 47.6333 1.5105 26.725 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.7382 47.7667 1.5112 26.8039 0 26.9091 47.8 1.5125 26.896 0.0006 26.8969 47.8333 1.5155 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48.0333 1.5197 27.0669 0 27.066					
47.5333 1.5043 26.6067 0 26.6856 47.6 1.5082 26.6856 0 26.6856 47.6 1.5082 26.6724 0 26.6724 47.6333 1.5105 26.725 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.8039 47.7667 1.5112 26.8039 0 26.8039 47.8 1.5125 26.896 0.0006 26.8966 47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.20669 0.0006 27.0759 </th <th></th> <th></th> <th></th> <th></th> <th></th>					
47.5667 1.5036 26.6856 0 26.6856 47.6 1.5082 26.6724 0 26.6724 47.6333 1.5105 26.725 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.8039 47.7667 1.5112 26.8039 0 26.8039 47.8 1.5125 26.896 0.0006 26.8966 47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9243 47.9333 1.5191 27.0012 0 27.012 47.9333 1.5191 27.0012 0 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0 27.0688 48.1 1.5247 27.2116 0.0006 27.2124 48.1333 1.5253 27.0669 0.0019 27.0688					
47.6 1.5082 26.6724 0 26.6724 47.6333 1.5105 26.725 0.0006 26.7256 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.8039 47.7333 1.5112 26.8039 0 26.8039 47.8 1.5125 26.896 0.0006 26.8966 47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0 27.0788 48.1 1.5247 27.2116 0.0006 27.2122 48.1667 1.5313 27.0932 0 27.0932				_	
47.6333 1.5105 26.725 0.0006 26.725 47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.8039 47.7333 1.5112 26.8039 0 26.8039 47.8 1.5125 26.896 0.0006 26.8966 47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1667 1.5313 27.0932 0 27.0932 48.2333 1.5365 27.3036 0 27.3036 <th></th> <th></th> <th></th> <th>_</th> <th></th>				_	
47.6667 1.5082 26.8039 0.0006 26.8045 47.7 1.5099 26.7382 0 26.7382 47.7333 1.5112 26.8039 0 26.8039 47.667 1.5112 26.9091 0 26.9091 47.8 1.5125 26.896 0.0006 26.8966 47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48.15194 27.1064 0 27.1064 48.0667 1.5217 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5353 27.0669 0.0006 27.07675 48.2667 1.5313 27.0932 0 27.159 <th></th> <th></th> <th></th> <th>_</th> <th></th>				_	
47.7 1.5099 26.7382 0 26.8039 47.7333 1.5112 26.8039 0 26.8039 47.7667 1.5112 26.9091 0 26.9091 47.8 1.5125 26.896 0.0006 26.8966 47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0667 1.5217 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5353 27.0669 0.0006 27.07675 48.1667 1.5313 27.0932 0 27.0932 48.2333 1.5365 27.3036 0					
47.7333 1.5112 26.8039 0 26.8039 47.7667 1.5112 26.9091 0 26.9091 47.8 1.5125 26.896 0.0006 26.8966 47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1667 1.5313 27.0932 0 27.07932 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 2					
47.7667 1.5112 26.9091 0 26.9091 47.8 1.5125 26.896 0.0006 26.8966 47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3333 1.5461 27.3168 0 27.3825 <th></th> <th></th> <th></th> <th></th> <th></th>					
47.8 1.5125 26.896 0.0006 26.8966 47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.22 1.5339 27.159 0 27.159 48.2333 1.5461 27.3431 0 27.3431 48.3667 1.5401 27.3431 0 2					
47.8333 1.5135 26.8828 0.0006 26.8834 47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2 1.5339 27.159 0 27.159 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3333 1.5461 27.3168 0 27.3431 48.3667 1.551 27.3825 0 27.3957					
47.8667 1.5161 26.9749 0 26.9749 47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2 1.5339 27.159 0 27.159 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3333 1.5461 27.3168 0 27.3431 48.3667 1.551 27.3825 0 27.3957 48.4333 1.5573 27.4746 0 0 27.47					
47.9 1.5184 26.9223 0 26.9223 47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 0					
47.9333 1.5191 27.0012 0 27.0012 47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 0 27.4746 48.5 1.5602 27.4746 0.0006 <th>Control Street, Street</th> <th></th> <th></th> <th></th> <th></th>	Control Street, Street				
47.9667 1.5201 27.0275 0.0006 27.0281 48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3667 1.551 27.3825 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4746 48.5 1.5629 27.4483 0.0006					
48 1.5194 27.1064 0 27.1064 48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2 1.5339 27.159 0 27.159 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3168 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4748 48.5333 1.5655 27.5403 0 27.5403					
48.0333 1.5197 27.0669 0 27.0669 48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2 1.5339 27.159 0 27.159 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3667 1.551 27.3825 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.5 1.5602 27.4746 0.0006 27.4782 48.5 1.5659 27.5403 0 27.5403 48.5 1.5675 27.5535 0 27.5535					
48.0667 1.5217 27.0669 0.0019 27.0688 48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2 1.5339 27.159 0 27.159 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3168 48.3667 1.551 27.3825 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.5 1.5602 27.4746 0.0006 27.4782 48.5 1.5629 27.4483 0.0006 27.5403 48.5 1.5675 27.5535 0 27.5535				_	
48.1 1.5247 27.2116 0.0006 27.2122 48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2 1.5339 27.159 0 27.159 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3667 1.551 27.3825 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.4489 48.5333 1.5655 27.5403 0 27.5403 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 </th <th></th> <th></th> <th></th> <th></th> <th></th>					
48.1333 1.5253 27.0669 0.0006 27.0675 48.1667 1.5313 27.0932 0 27.0932 48.2 1.5339 27.159 0 27.159 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3168 48.3667 1.551 27.3825 0 27.3957 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4745 48.5 1.5629 27.4483 0.0006 27.5403 48.5 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5665					
48.1667 1.5313 27.0932 0 27.0932 48.2 1.5339 27.159 0 27.159 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3168 48.3667 1.551 27.3825 0 27.3957 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.5403 48.55333 1.5655 27.5403 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5665 48.6667 1.5737 27.6455 0 27.6455					
48.2 1.5339 27.159 0 27.159 48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3168 48.3667 1.551 27.3825 0 27.3957 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.5403 48.5667 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5665 48.6667 1.5737 27.6455 0 27.6455					
48.2333 1.5365 27.3036 0 27.3036 48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3168 48.3667 1.551 27.3825 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.5403 48.5333 1.5655 27.5403 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455					
48.2667 1.5401 27.2247 0 27.2247 48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3168 48.3667 1.551 27.3825 0 27.3957 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.5403 48.5333 1.5655 27.5403 0 27.5403 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455				_	
48.3 1.5461 27.3431 0 27.3431 48.3333 1.5461 27.3168 0 27.3168 48.3667 1.551 27.3825 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.4489 48.5333 1.5655 27.5403 0 27.5403 48.6 1.5671 27.5535 0 27.5278 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455					
48.3333 1.5461 27.3168 0 27.3168 48.3667 1.551 27.3825 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.4489 48.5333 1.5655 27.5403 0 27.5403 48.5667 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455				_	
48.3667 1.551 27.3825 0 27.3825 48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.4489 48.5333 1.5655 27.5403 0 27.5403 48.5667 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455					
48.4 1.553 27.3957 0 27.3957 48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.4489 48.5333 1.5655 27.5403 0 27.5403 48.5667 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5665 48.6667 1.5737 27.6455 0 27.6455					
48.4333 1.5573 27.4746 0 27.4746 48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.4489 48.5333 1.5655 27.5403 0 27.5403 48.5667 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5665 48.6667 1.5737 27.6455 0 27.6455				_	
48.4667 1.5602 27.4746 0.0006 27.4752 48.5 1.5629 27.4483 0.0006 27.4489 48.5333 1.5655 27.5403 0 27.5403 48.5667 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455					
48.5 1.5629 27.4483 0.0006 27.4489 48.5333 1.5655 27.5403 0 27.5403 48.5667 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455					
48.5333 1.5655 27.5403 0 27.5403 48.5667 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455					
48.5667 1.5675 27.5535 0 27.5535 48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455					
48.6 1.5671 27.5272 0.0006 27.5278 48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455				_	
48.6333 1.5717 27.5666 0 27.5666 48.6667 1.5737 27.6455 0 27.6455					
48.6667 1.5737 27.6455 0 27.6455					
2.10.15					



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,,		,		
48.7333	1.5767	27.7507	0	27.7507
48.7667	1.5793	27.7639	0	27.7639
48.8	1.5819	27.7902	0.0006	27.7908
48.8333	1.5856	27.7507	0.0006	27.7513
48.8667	1.5829	27.7639	0.0006	27.7645
48.9	1.5839	27.8428	0.0006	27.8434
48.9333	1.5859	27.8691	0.0006	27.8697
48.9667	1.5908	27.9611	0.0006	27.9617
49	1.5905	27.9874	0.0006	27.988
49.0333	1.5915	28.0532	0	28.0532
49.0667	1.5898	28.0269	0.0006	28.0274
49.1	1.5951	28.04	0.0006	28.0406
49.1333	1.5974	28.1452	0.0019	28.1471
49.1667	1.602	28.1583	0.0006	28.1589
49.2	1.5997	28.1452	0	28.1452
49.2333	1.5984	28.1583	0.0006	28.1589
49.2667	1.6007	28.1583	0	28.1583
49.3	1.6047	28.2372	0	28.2372
49.3333	1.606	28.2898	0	28.2898
49.3667	1.6053	28.2635	0	28.2635
49.4	1.6063	28.303	0	28.303
49.4333	1.606	28.3161	0.0006	28.3167
49.4667	1.5786	28.8158	0	28.8158
49.5	1.5135	30.2755	0	30.2755
49.5333	1.4608	31.5247	0	31.5247
49.5667	1.4059	32.6556	0	32.6556
49.6	1.3588	33.4971	0.0006	33.4977
49.6333 49.6667	1.315 1.2791	34.2072 34.9305	0.0006	34.2078 34.9305
49.6667	1.2791	35.6142	0.0006	35.6148
49.7	1.24	36.1797	0.0006	36.1797
49.7667	1.1824	36.561	0.0006	36.5616
49.7667	1.1534	37.1133	0.0006	37.1139
49.8333	1.1317	37.521	0.0008	37.521
49.8667	1.1063	37.9154	0.0006	37.916
49.9	1.0846	38.2705	0.0000	38.2705
49.9333	1.0665	38.6387	0	38.6387
49.9667	1.0501	38.928	0.0006	38.9286
50	1.0349	39.1778	0.0000	39.1778
50.0333	1.0175	39.4277	0	39.4277
50.0667	1.0092	39.6644	0	39.6644
50.1	1.0086	39.7827	0.0006	39.7833
50.1333	1.0158	39.9931	0.0006	39.9937
- 10000 d - 10 - A	STATE OF THE PARTY	Charles and a second		NAME OF TAXABLE PARTY.



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
50.1667	1.0297	40.2824	0	40.2824
50.2	1.0464	40.5454	0	40.5454
50.2333	1.0599	40.7426	0	40.7426
50.2667	1.0764	41.0056	0	41.0056
50.3	1.0909	41.3738	0	41.3738
50.3333	1.1001	41.5842	0	41.5842
50.3667	1.1116	41.8867	0	41.8867
50.4	1.1225	42.1234	0.0006	42.124
50.4333	1.1314	42.439	0	42.439
50.4667	1.1399	42.6888	0	42.6888
50.5	1.1449	43.0964	0	43.0964
50.5333	1.1531	43.2674	0	43.2674
50.5667	1.1587	43.6356	0	43.6356
50.6	1.1666	43.8065	0.0006	43.8071
50.6333	1.1702	44.0564	0	44.0564
50.6667	1.1781	44.3983	0.0006	44.3989
50.7	1.1784	44.6481	0	44.6481
50.7333	1.1843	44.8848	0	44.8848
50.7667	1.1903	45.1478	0.0006	45.1484
50.8	1.1913	45.4239	0.0006	45.4245
50.8333	1.1955	45.779	0.0006	45.7796
50.8667	1.2005	45.9105	0.0006	45.9111
50.9	1.2031	46.1998	0.0019	46.2017
50.9333	1.2067	46.4102	0.0006	46.4108
50.9667	1.2071	46.6206	0.0006	46.6212
51	1.2136	46.8573	0.0006	46.8579
51.0333	1.2156	47.1334	0	47.1334
51.0667	1.215	47.3832	0	47.3832
51.1	1.2179	47.6199	0	47.6199
51.1333	1.2186	47.7909	0	47.7909
51.1667	1.2238	48.1065	0.0006	48.1071
51.2	1.2291	48.238	0.0006	48.2386
51.2333	1.2324	48.4352	0	48.4352
51.2667	1.238	48.6982	0	48.6982
51.3	1.2416	48.8034	0	48.8034
51.3333	1.2429	49.1453	0.0006	49.1459
51.3667	1.2492	49.3294	0.0019	49.3313
51.4	1.2521	49.5661	0	49.5661
51.4333	1.2554	49.7502	0.0006	49.7508
51.4667	1.2577	49.9474	0.0006	49.948
51.5	1.263	50.2367	0.0006	50.2373
51.5333	1.2742	50.3682	0.0006	50.3688
51.5667	1.2791	50.5786	0	50.5786



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow
()	(1001)	(2.111)	(2.11)	(2.141)
51.6	1.2824	50.7233	0.0006	50.7239
51.6333	1.29	50.9074	0	50.9074
51.6667	1.2933	51.1967	0	51.1967
51.7	1.3012	51.4334	0	51.4334
51.7333	1.3061	51.6306	0	51.6306
51.7667	1.3153	51.7621	0	51.7621
51.8	1.319	51.9725	0.0019	51.9744
51.8333	1.3229	52.2618	0.0019	52.2637
51.8667	1.3269	52.4064	0	52.4064
51.9	1.3334	52.6694	0	52.6694
51.9333	1.3371	52.8404	0	52.8404
51.9667	1.3397	53.0639	0	53.0639
52	1.343	53.3269	0.0006	53.3275
52.0333	1.3476	53.3532	0	53.3532
52.0667	1.3515	53.6688	0.0019	53.6707
52.1	1.3545	53.8661	0	53.8661
52.1333	1.3588	54.0502	0	54.0502
52.1667	1.3594	54.2474	0.0006	54.248
52.2	1.3614	54.5104	0	54.5104
52.2333	1.366	54.6287	0	54.6287
52.2667	1.3713	54.8917	0	54.8917
52.3	1.3703	55.089	0.0006	55.0896
52.3333	1.3733	55.2205	0	55.2205
52.3667	1.3772	55.4966	0	55.4966
52.4	1.3878	55.6413	0	55.6413
52.4333	1.3901	55.7333	0.0006	55.7339
52.4667	1.3953	56.0095	0.0006	56.0101
52.5	1.3996	56.1541	0.0019	56.156
52.5333	1.4062	56.3645	0.0006	56.3651
52.5667	1.4088	56.5092	0	56.5092
52.6	1.4118	56.667	0.0006	56.6676
52.6333 52.6667	1.4164	56.9431	0.0019	56.945
52.6667	1.42	57.1798	0.0006	57.1804 57.2587
52.7333	1.4223 1.4286	57.2587 57.4165	0.0019	57.4184
52.7667				
52.7667	1 1266	E7 6026		
52.8333	1.4266	57.6926	0.0006	57.6932
52.8667	1.4315	57.9162	0	57.9162
	1.4315 1.4361	57.9162 58.074	0	57.9162 58.074
	1.4315 1.4361 1.4378	57.9162 58.074 58.1529	0 0 0	57.9162 58.074 58.1529
52.9	1.4315 1.4361 1.4378 1.4424	57.9162 58.074 58.1529 58.2055	0 0 0	57.9162 58.074 58.1529 58.2055
	1.4315 1.4361 1.4378	57.9162 58.074 58.1529	0 0 0	57.9162 58.074 58.1529



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,,		,		
53.0333	1.448	58.9682	0.0006	58.9688
53.0667	1.4539	59.2049	0	59.2049
53.1	1.4549	59.3758	0.0006	59.3764
53.1333	1.4565	59.573	0.0006	59.5736
53.1667	1.4556	59.6388	0.0006	59.6394
53.2	1.4605	59.8492	0	59.8492
53.2333	1.4674	59.9938	0	59.9938
53.2667	1.475	60.1516	0	60.1516
53.3	1.4835	60.2963	0.0019	60.2982
53.3333	1.4878	60.4278	0.0006	60.4284
53.3667	1.4944	60.7302	0.0006	60.7308
53.4	1.4954	60.7565	0.0006	60.7571
53.4333	1.5062	60.9143	0	60.9143
53.4667	1.5053	61.1642	0.0006	61.1648
53.5	1.5105	61.2694	0	61.2694
53.5333	1.5135	61.4272	0.0006	61.4278
53.5667	1.5155	61.7165	0.0006	61.7171
53.6	1.5171	61.7559	0.0006	61.7565
53.6333	1.5253	61.9926	0	61.9926
53.6667	1.5263	62.2687	0.0006	62.2693
53.7	1.529	62.3082	0	62.3082
53.7333	1.5296	62.6106	0.0006	62.6112
53.7667	1.5319	62.6106	0.0006	62.6112
53.8	1.5349	62.8999	0.0006	62.9005
53.8333	1.5392	63.0446	0	63.0446
53.8667	1.5375	63.1498	0.0006	63.1504
53.9 53.9333	1.5415	63.347	0.0006	63.3476
53.9667	1.5405	63.518 63.6495	0	63.518
53.9667	1.5447 1.5484	63.9388	0	63.6495 63.9388
54.0333	1.5484	63.9782	0.0006	63.9788
54.0667	1.5477	63.9914	0.0006	63.992
54.1	1.5546	64.2281	0.0006	64.2286
54.1333	1.5536	64.4647	0.0006	64.4653
54.1667	1.5579	64.4647	0.0019	64.4667
54.2	1.5582	64.6357	0.0015	64.6357
54.2333	1.5579	64.7935	0.0006	64.7941
54.2667	1.5602	65.017	0.0000	65.017
54.3	1.5648	65.0959	0	65.0959
54.3333	1.5645	65.188	0.0006	65.1886
54.3667	1.5638	65.4378	0.0019	65.4397
54.4	1.5675	65.3852	0.0019	65.3871
54.4333	1.5652	65.6088	0	65.6088



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow		Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
54.4667	1.5681	65.6877	0.0006	65.6883
54.5	1.5684	65.977	0	65.977
54.5333	1.5717	65.9375	0.0006	65.9381
54.5667	1.5708	66.1479	0.0006	66.1485
54.6	1.5717	66.3583	0	66.3583
54.6333	1.5727	66.4372	0	66.4372
54.6667	1.5773	66.4504	0	66.4504
54.7	1.5737	66.6476	0.0006	66.6482
54.7333	1.575	66.8185	0	66.8185
54.7667	1.576	66.8843	0.0019	66.8862
54.8	1.577	66.9237	0.0006	66.9243
54.8333	1.577	67.0815	0.0006	67.0821
54.8667	1.577	67.213	0.0006	67.2136
54.9	1.5783	67.3051	0	67.3051
54.9333	1.5819	67.4629	0.0006	67.4635
54.9667	1.58	67.5549	0.0006	67.5555
55	1.5813	67.5549	0	67.5549
55.0333	1.5813	67.8442	0	67.8442
55.0667	1.5783	67.9626	0.0006	67.9632
55.1	1.5819	68.0546	0	68.0546
55.1333	1.5846	68.0415	0.0006	68.0421
55.1667	1.5869	68.3045	0.0006	68.3051
55.2	1.5892	68.3045	0.0006	68.3051
55.2333	1.5964	68.4228	0	68.4228
55.2667	1.5987	68.699	0.0006	68.6996
55.3	1.6004	68.6595	0.0006	68.6601
55.3333	1.6033	68.8831	0.0006	68.8837
55.3667	1.6086	68.9225	0.0006	68.9231
55.4	1.6093	68.9357	0	68.9357
55.4333	1.6132	69.0935	0	69.0935
55.4667	1.6175	69.1461	0.0006	69.1466
55.5	1.6149	69.3433	0	69.3433
55.5333	1.6172	69.3564	0.0006	69.357
55.5667	1.6198	69.58	0	69.58
55.6	1.6201	69.7378	0.0006	69.7384
55.6333	1.6247	69.9087	0	69.9087
55.6667	1.6274	69.9482	0	69.9482
55.7	1.6257	70.0271	0	70.0271
55.7333	1.626	70.106	0.0019	70.1079
55.7667	1.6231	70.3295	0	70.3295
55.8	1.6264	70.4084	0.0006	70.409
55.8333	1.628	70.4084	0.0006	70.409
55.8667	1.629	70.5925	0.0006	70.5931



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
55.9	1.6277	70.7372	0	70.7372
55.9333	1.6287	70.9213	0	70.9213
55.9667	1.6267	71.0133	0.0006	71.0139
56	1.6257	70.987	0	70.987
56.0333	1.627	71.3026	0.0006	71.3032
56.0667	1.6264	71.2763	0	71.2763
56.1	1.6241	71.4078	0.0006	71.4084
56.1333	1.6251	71.4341	0	71.4341
56.1667	1.6254	71.6576	0.0006	71.6582
56.2	1.6254	71.776	0	71.776
56.2333	1.6228	71.7628	0	71.7628
56.2667	1.6251	71.9338	0.0019	71.9357
56.3	1.6214	72.0258	0	72.0258
56.3333	1.6228	72.1047	0	72.1047
56.3667	1.6251	72.4072	0.0006	72.4078
56.4	1.6254	72.4203	0.0006	72.4209
56.4333	1.6254	72.5387	0	72.5387
56.4667	1.6254	72.5387	0.0006	72.5393
56.5	1.627	72.657	0.0006	72.6576
56.5333	1.6267	72.7885	0.0019	72.7904
56.5667	1.6293	72.9069	0.0006	72.9075
56.6	1.631	73.0252	0	73.0252
56.6333	1.6297	73.1304	0.0006	73.131
56.6667	1.6333	73.0252	0	73.0252
56.7	1.631	73.2093	0.0006	73.2099
56.7333	1.6333	73.3408	0	73.3408
56.7667	1.6326	73.2882	0.0019	73.2901
56.8	1.6323	73.5907	0.0006	73.5913
56.8333	1.6369	73.5644	0.0006	73.565
56.8667	1.6336	73.7353	0	73.7353
56.9	1.633	73.5118	0	73.5118
56.9333	1.6346	73.8668	0.0006	73.8674
56.9667	1.6379	73.8142	0.0006	73.8148
57	1.6346	73.972	0.0019	73.9739
57.0333	1.6343	74.0115	0	74.0115
57.0667	1.6362	74.1692	0.0019	74.1712
57.1	1.6366	74.1429	0	74.1429
57.1333	1.6369	74.1955	0.0006	74.1961
57.1667	1.6379	74.2613	0.0006	74.2619
57.2	1.6382	74.3928	0.0006	74.3934
57.2333	1.6333	74.4848	0.0019	74.4868
57.2667	1.6343	74.6032	0.0006	74.6038
57.3	1.6366	74.7215	0.0006	74.7221



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
57.3333	1.6379	74.6032	0.0006	74.6038
57.3667	1.6359	74.6426	0	74.6426
57.4	1.633	74.9845	0	74.9845
57.4333	1.6359	75.0766	0	75.0766
57.4667	1.6326	75.0108	0.0006	75.0114
57.5	1.6333	75.0897	0.0006	75.0903
57.5333	1.6346	75.3001	0	75.3001
57.5667	1.6359	75.2738	0	75.2738
57.6	1.6323	75.3527	0	75.3527
57.6333	1.6316	75.4711	0	75.4711
57.6667	1.6333	75.3527	0.0006	75.3533
57.7	1.6326	75.4053	0.0006	75.4059
57.7333	1.6316	75.6026	0.0006	75.6032
57.7667	1.632	75.7341	0	75.7341
57.8	1.6326	75.5763	0.0006	75.5769
57.8333	1.631	75.6815	0.0006	75.6821
57.8667	1.632	75.6683	0.0006	75.6689
57.9	1.6297	75.7998	0.0006	75.8004
57.9333	1.6287	75.7867	0	75.7867
57.9667	1.63	75.9182	0	75.9182
58	1.629	75.9839	0	75.9839
58.0333	1.6297	76.0497	0.0006	76.0503
58.0667	1.628	76.1286	0.0006	76.1292
58.1	1.6293	76.076	0.0019	76.0779
58.1333	1.6277	76.2732	0	76.2732
58.1667	1.626	76.3127	0.0019	76.3146
58.2	1.6254	76.3784	0.0006	76.379
58.2333	1.6293	76.3653	0	76.3653
58.2667	1.6254	76.3916	0.0006	76.3921
58.3	1.6297	76.4836	0	76.4836
58.3333	1.6247	76.4967	0	76.4967
58.3667	1.6247	76.694	0.0006	76.6946
58.4	1.6251	76.6414	0	76.6414
58.4333	1.6254	76.7466	0	76.7466
58.4667	1.6181	76.6677	0	76.6677
58.5	1.6208	76.7071	0.0006	76.7077
58.5333	1.6228	76.9044	0	76.9044
58.5667	1.6221	77.0096	0	77.0096
58.6	1.6201	76.9438	0	76.9438
58.6333	1.6204	77.0096	0	77.0096
58.6667 58.7	1.6178 1.6221	77.0359 77.0227	0.0032	77.0359 77.026
58.7333	1.6221	77.0227	0.0032	77.026
38./333	1.0201	11.2126	U	11.2126



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
58.7667	1.6204	77.312	0.0019	77.3139
58.8	1.6188	77.2463	0.0019	77.2482
58.8333	1.6195	77.2726	0.0006	77.2732
58.8667	1.6178	77.4435	0	77.4435
58.9	1.6208	77.4698	0	77.4698
58.9333	1.6191	77.5093	0	77.5093
58.9667	1.6204	77.5619	0	77.5619
59	1.6185	77.3646	0.0006	77.3652
59.0333	1.6165	77.5619	0.0006	77.5625
59.0667	1.6181	77.6802	0.0019	77.6821
59.1	1.6204	77.7591	0	77.7591
59.1333	1.6231	77.7986	0	77.7986
59.1667	1.6267	77.838	0.0006	77.8386
59.2	1.6211	77.8906	0.0006	77.8912
59.2333	1.6224	77.838	0.0006	77.8386
59.2667	1.6214	77.9564	0	77.9564
59.3	1.628	77.9958	0	77.9958
59.3333	1.6254	77.9958	0	77.9958
59.3667	1.6283	77.9827	0.0006	77.9833
59.4	1.6264	78.0484	0	78.0484
59.4333	1.6307	78.1536	0.0006	78.1542
59.4667	1.6277	78.1799	0	78.1799
59.5	1.6267	78.1931	0	78.1931
59.5333	1.6287	78.2851	0	78.2851
59.5667	1.6287	78.2851	0.0019	78.287
59.6	1.6297	78.2325	0.0006	78.2331
59.6333	1.63	78.2457	0.0006	78.2463
59.6667	1.6303	78.3377	0	78.3377
59.7	1.6326	78.3377	0.0006	78.3383
59.7333 59.7667	1.632	78.3377	0.0006	78.3383
59.7667	1.6313 1.6349	78.6007 78.5481		78.6013 78.5481
59.8333	1.6366		0.0006	
59.8667	1.6353	78.5087 78.535	0.0006	78.5093 78.535
59.8	1.6395	78.6139	0.0006	78.6145
59.9333	1.6372	78.4824	0.0006	78.4824
59.9667	1.6372	78.6533	0.0006	78.6539
60	1.6372	78.6665	0.0008	78.6665
60.0333	1.6399	78.7454	0.0006	78.746
60.0667	1.6376	78.7322	0.0006	78.7328
60.1	1.6402	78.7585	0.0008	78.7585
60.1333	1.6379	78.9163	0.0006	78.9169
60.1667	1.6415	78.89	0.0008	78.89
00.100/	1.0413	70.05	U	70.03



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,		,		
60.2	1.6405	78.9557	0.0019	78.9577
60.2333	1.6389	78.9426	0.0006	78.9432
60.2667	1.6376	78.9557	0	78.9557
60.3	1.6379	79.0346	0.0019	79.0366
60.3333	1.6379	78.9163	0.0006	78.9169
60.3667	1.6376	78.9689	0	78.9689
60.4	1.6356	79.1793	0	79.1793
60.4333	1.6392	79.0478	0.0006	79.0484
60.4667	1.6346	79.2845	0	79.2845
60.5	1.6326	79.2713	0	79.2713
60.5333	1.6326	79.0609	0.0006	79.0615
60.5667	1.6343	79.2582	0	79.2582
60.6	1.6333	79.3371	0	79.3371
60.6333	1.631	79.3108	0.0006	79.3114
60.6667	1.6316	79.4686	0.0006	79.4692
60.7	1.6343	79.5343	0	79.5343
60.7333	1.6303	79.4554	0.0006	79.456
60.7667	1.628	79.508	0.0006	79.5086
60.8	1.6293	79.5212	0.0006	79.5218
60.8333	1.6277	79.6001	0.0006	79.6007
60.8667	1.6293	79.5869	0	79.5869
60.9	1.6287	79.8499	0	79.8499
60.9333	1.6297	79.5475	0.0006	79.5481
60.9667	1.6264	79.7316	0.0006	79.7322
61	1.6247	79.6658	0	79.6658
61.0333	1.6244	79.8105	0	79.8105
61.0667	1.6254	79.7316	0	79.7316
61.1	1.6234	79.8499	0.0006	79.8505
61.1333	1.6283	79.8105	0	79.8105
61.1667	1.6267	79.7842	0.0006	79.7848
61.2	1.6234	79.942	0.0006	79.9426
61.2333 61.2667	1.626	79.8762	0.0006	79.8768
61.3	1.6214 1.6231	79.9551	0.0019	79.957
61.3333	1.6247	79.9288 80.0209	0	79.9288 80.0215
61.3667	1.6224	79.9946	0.0006	79.9946
61.4	1.627	80.0209	0.0006	80.0215
61.4333	1.6267	79.9551		79.9551
61.4667	1.6244	79.9331	0	79.9331
61.5	1.6254	80.0735	0	80.0735
61.5333	1.6257	80.034	0.0019	80.0755
61.5667	1.6244	80.0472	0.0019	80.0359
61.6	1.6221	80.2576	0.0008	80.2576
01.0	1.0221	30.2370	U	00.2370



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
, ,	(100.7)	(=,	1	1
61.6333	1.6224	80.2181	0.0006	80.2187
61.6667	1.6224	80.2181	0	80.2181
61.7	1.6241	80.1524	0	80.1524
61.7333	1.6257	80.2444	0.0006	80.245
61.7667	1.5806	80.3891	0	80.3891
61.8	1.4289	80.2839	0	80.2839
61.8333	1.2913	79.942	0.0006	79.9426
61.8667	1.1692	79.8105	0	79.8105
61.9	1.0573	79.4686	0	79.4686
61.9333	0.9523	79.1793	0	79.1793
61.9667	0.8611	78.6665	0.0006	78.6671
62	0.7772	78.2325	0	78.2325
62.0333	0.7035	77.6671	0.0006	77.6677
62.0667	0.6354	77.2463	0.0006	77.2469
62.1	0.5722	76.6808	0	76.6808
62.1333	0.5139	76.0234	0.0006	76.024
62.1667	0.4678	75.3264	0.0006	75.327
62.2	0.4237	74.5374	0	74.5374
62.2333	0.3839	73.8668	0.0006	73.8674
62.2667	0.3497	73.2225	0	73.2225
62.3	0.32	72.3546	0.0006	72.3552
62.3333	0.294	71.7891	0	71.7891
62.3667	0.272	71.0265	0	71.0265
62.4	0.2453	70.3164	0	70.3164
62.4333	0.2289	69.3827	0.0006	69.3833
62.4667	0.2075	68.6069	0.0006	68.6075
62.5 62.5333	0.1943	67.7127	0	67.7127
62.5667	0.1821	67.0552 66.2531	0.0006	67.0552
62.5667	0.1683	65.28	0.0006	66.2537 65.2806
62.6333	0.1561	64.5962	0.0006	64.5968
62.6667	0.1351	63.7415	0.0006	63.7421
62.7	0.1351	62.8736	0.0006	62.87421
62.7333	0.1263	62.0057	0.0006	62.0063
62.7667	0.1081	61.2431	0.0006	61.2437
62.8	0.0985	60.4541	0.0019	60.456
62.8333	0.0936	59.6782	0.0006	59.6788
62.8667	0.0330	58.7315	0.0006	58.7321
62.9	0.0788	58.166	0.0006	58.1666
62.9333	0.0752	57.285	0.0000	57.285
62.9667	0.063	56.5355	0.0006	56.5361
63	0.06	55.6413	0.0006	55.6419
63.0333	0.0541	54.9443	0	54.9443
N. 10 (10 (10 (10 (10 (10 (10 (10 (10 (10	secondard ordi			Total Control of Control



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
63.0667	0.0442	54.1422	0.0006	54.1428
63.1	0.0406	53.4321	0.0006	53.4327
63.1333	0.0344	52.5642	0	52.5642
63.1667	0.0281	51.841	0.0006	51.8416
63.2	0.0238	50.9863	0	50.9863
63.2333	0.0163	50.1973	0.0019	50.1992
63.2667	0.0156	49.5793	0	49.5793
63.3	0.0093	48.8297	0	48.8297
63.3333	0.0021	48.0144	0.0019	48.0163
63.3667	0.0014	47.3307	0.0006	47.3312
63.4	-0.0055	46.4365	0	46.4365
63.4333	-0.0042	45.6606	0.0006	45.6612
63.4667	-0.0124	44.9243	0.0019	44.9262
63.5	-0.0124	44.2142	0.0006	44.2148
63.5333	-0.015	43.4515	0	43.4515
63.5667	-0.0206	42.8334	0	42.8334
63.6	-0.02	42.1234	0.0032	42.1266
63.6333	-0.0239	41.3081	0.0006	41.3087
63.6667	-0.0262	40.6374	0.0006	40.638
63.7	-0.0252	39.809	0	39.809
63.7333	-0.0269	39.0726	0	39.0726
63.7667	-0.0292	38.3362	0	38.3362
63.8	-0.0305	37.7051	0.0006	37.7056
63.8333	-0.0331	36.9555	0.0006	36.9561
63.8667	-0.0318	36.1402	0	36.1402
63.9	-0.0321	35.4696	0.0006	35.4702
63.9333	-0.0364	34.8647	0	34.8647
63.9667	-0.0325	34.1152	0.0006	34.1158
64 64.0333	-0.0384	33.4182	0	33.4182
64.0667	-0.0387 -0.0361	32.6293 32.077	0	32.6293 32.077
64.1	-0.0351	31.2748	0.0006	31.2754
64.1333	-0.0334	30.7357	0.0006	30.7363
64.1667	-0.0387	30.0519	0.0019	30.7563
64.2	-0.0413	29.3681	0.0019	29.3681
64.2333	-0.039	28.7632	0.0006	28.7638
64.2667	-0.0407	28.0926	0.0008	28.0926
64.3	-0.0397	27.4351	0	27.4351
64.3333	-0.0337	26.8565	0	26.8565
64.3667	-0.0387	26.2516	0.0019	26.2536
64.4	-0.04	25.5284	0.0019	25.5284
64.4333	-0.0413	24.9235	0.0006	24.9241
64.4667	-0.0407	24.3318	0.0019	24.3337
U-1-100/	0.0307	24.3310	0.0015	27.3337



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
, ,		(=====,		
64.5	-0.0436	23.7269	0.0006	23.7275
64.5333	-0.041	23.1089	0.0006	23.1095
64.5667	-0.0381	22.4514	0.0006	22.452
64.6	-0.0436	21.9254	0.0006	21.926
64.6333	-0.0427	21.3205	0.0006	21.3211
64.6667	-0.0384	20.6893	0.0019	20.6912
64.7	-0.044	20.0844	0	20.0844
64.7333	-0.0407	19.5716	0.0006	19.5722
64.7667	-0.0384	18.9667	0	18.9667
64.8	-0.0413	18.4276	0	18.4276
64.8333	-0.04	17.8884	0.0006	17.889
64.8667	-0.039	17.323	0.0019	17.3249
64.9	-0.0433	16.8101	0	16.8101
64.9333	-0.0387	16.2578	0	16.2578
64.9667	-0.0417	15.8108	0	15.8108
65	-0.039	15.2059	0	15.2059
65.0333	-0.0381	14.7062	0.0006	14.7068
65.0667	-0.0387	14.1539	0.0019	14.1558
65.1	-0.0384	13.7462	0	13.7462
65.1333	-0.042	13.2203	0.0019	13.2222
65.1667	-0.0417	12.7469	0.0006	12.7475
65.2	-0.04	12.3524	0	12.3524
65.2333	-0.0377	11.8395	0	11.8395
65.2667	-0.039	11.4582	0	11.4582
65.3	-0.0377	11.0111	0.0006	11.0117
65.3333	-0.039	10.5772	0	10.5772
65.3667	-0.0348	10.1432	0.0006	10.1438
65.4 65.4333	-0.0381	9.775 9.3805	0.0006	9.7756
65.4667	-0.0377 -0.0338	8.986	0.0006	9.3811 8.986
65.5	-0.0338	8.6705	0	8.6705
65.5333	-0.0344	8.276	0.0006	8.2766
65.5667	-0.0371	7.9735	0.0019	7.9754
65.6	-0.0331	7.6579	0.0019	7.6579
65.6333	-0.0318	7.316	0	7.316
65.6667	-0.0334	7.0136	0	7.0136
65.7	-0.0305	6.7506	0	6.7506
65.7333	-0.0331	6.4744	0.0006	6.475
65.7667	-0.0328	6.08	0.0006	6.0806
65.8	-0.0311	5.8827	0.0000	5.8827
65.8333	-0.0305	5.6592	0.0006	5.6598
65.8667	-0.0331	5.4356	0	5.4356
65.9	-0.0298	5.2384	0.0006	5.239



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
65.9333	-0.0298	5.0017	0.0006	5.0023
65.9667	-0.0341	4.7781	0	4.7781
66	-0.0318	4.502	0	4.502
66.0333	-0.0292	4.3573	0.0006	4.3579
66.0667	-0.0311	4.1995	0	4.1995
66.1	-0.0285	4.0154	0	4.0154
66.1333	-0.0311	3.8314	0	3.8314
66.1667	-0.0272	3.6999	0	3.6999
66.2	-0.0298	3.5026	0.0006	3.5032
66.2333	-0.0295	3.3843	0	3.3843
66.2667	-0.0282	3.2265	0	3.2265
66.3	-0.0239	3.1213	0.0006	3.1219
66.3333	-0.0272	0	0.0006	0.0006
66.3667	-0.0275	0.0048	0	0.0048
66.4	-0.0288	0.0048	0.0006	0.0054
66.4333	-0.0259	0.0179	0.0006	0.0185
66.4667	-0.0269	0.0179	0.0006	0.0185
66.5	-0.0285	0.0048	0.0006	0.0054
66.5333	-0.0269	0.0179	0.0006	0.0185
66.5667	-0.0275	0.0048	0	0.0048
66.6	-0.0262	0	0.0006	0.0006
66.6333	-0.0282	0	0.0006	0.0006
66.6667	-0.0275	0.0048	0	0.0048
66.7	-0.0288	0.0048	0.0006	0.0054
66.7333	-0.0252	0.0048	0	0.0048
66.7667	-0.0219	0.0048	0	0.0048
66.8	-0.0354	0	0	0
66.8333	-0.0315	0.0048	0	0.0048
66.8667	-0.0232	0.0048	0.0006	0.0054
66.9 66.9333	-0.0216 -0.0384	0.0048	0.0006	0.0054
66.9667	-0.0384	0.0048	0.0006	0.0054
67	-0.0374	0.0048	0.0006	0.0054
67.0333	-0.0344	0.0048	0.0006	0.0054
67.0667	-0.039	0.0048	0.0006	0.0034
67.1	-0.0381	0.0048	0	0.0048
67.1333	-0.0433	0.0179	0	0.0179
67.1667	-0.0413	0.0048	0.0006	0.0054
67.2	-0.041	0.0048	0.0006	0.0054
67.2333	-0.0423	0.0048	0.0008	0.0034
67.2667	-0.0397	0.0048	0	0.0048
67.3	-0.0308	0	0.0006	0.0006
67.3333	-0.0331	0	0.0008	0.0008
07.3333	0.0341	U	0.0015	0.0019



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
C7 2CC7	0.0221	0	0	0
67.3667 67.4	-0.0321 -0.0331	0	0.0032	0.0032
67.4333	-0.0331	0.0048	0.0032	0.0032
67.4667	-0.0341	0.0048	0	0.0048
67.5	-0.0358	0	0.0032	0.0032
67.5333	-0.0367	0.0048	0.0032	0.0032
67.5667	-0.04	0.0048	0.0019	0.0047
67.6	-0.0344	0	0	0.0007
67.6333	-0.0371	0	0.0019	0.0019
67.6667	-0.0348	0	0.0006	0.0006
67.7	-0.0348	0.0048	0.0006	0.0054
67.7333	-0.0325	0	0.0006	0.0006
67.7667	-0.0354	0	0.0006	0.0006
67.8	-0.0341	0.0048	0.0006	0.0054
67.8333	-0.0315	0.0048	0	0.0048
67.8667	-0.0338	0.0048	0	0.0048
67.9	-0.0315	0	0.0006	0.0006
67.9333	-0.0308	0	0	0
67.9667	-0.0279	0.0179	0	0.0179
68	-0.0305	0.0048	0.0006	0.0054
68.0333	-0.0292	0.0048	0.0006	0.0054
68.0667	-0.0269	0.0048	0.0006	0.0054
68.1	-0.0259	0	0	0
68.1333	-0.0259	0	0	0
68.1667	-0.0265	0.0048	0.0006	0.0054
68.2	-0.0229	0.0048	0	0.0048
68.2333	-0.0232	0	0.0006	0.0006
68.2667	-0.0255	0.0048	0.0006	0.0054
68.3	-0.0246	0	0	0
68.3333	-0.0265	0.0048	0.0006	0.0054
68.3667	-0.0226	0	0	0
68.4	-0.0236	0	0	0
68.4333	-0.0209	0.0048	0	0.0048
68.4667	-0.0226	0.0179	0.0006	0.0185
68.5	-0.0252	0	0.0006	0.0006
68.5333	-0.0255	0.0048	0	0.0048
68.5667	-0.0242	0	0	0
68.6	-0.0219	0	0	0
68.6333	-0.0249	0	0.0019	0.0019
68.6667	-0.0232	0.0048	0	0.0048
68.7	-0.0249	0.0048		0.0048
68.7333 68.7667	-0.0242 -0.0206	0.0048 0.0048	0	0.0048 0.0048
08.7007	-0.0206	0.0048	U	0.0048



Project No. G100982213SAT-003

Time (min)	Ch 1 dP	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow
()	(рэт)	(El IVI)	(Li ivi)	(LI IVI)
68.8	-0.0246	0	0.0006	0.0006
68.8333	0.0531	0	0.0006	0.0006
68.8667	0.1413	0.0048	0.0006	0.0054
68.9	0.2262	0	0	0
68.9333	0.3049	0	0.0006	0.0006
68.9667	0.377	0	0	0
69	0.4471	0.0048	0.0006	0.0054
69.0333	0.5093	0	0.0006	0.0006
69.0667	0.5738	8.3154	0	8.3154
69.1	0.6301	9.2885	0.0006	9.2891
69.1333	0.6893	10.1695	0.0006	10.1701
69.1667	0.7423	11.0374	0	11.0374
69.2	0.792	11.8658	0.0006	11.8664
69.2333	0.8434	12.7206	0	12.7206
69.2667	0.8891	13.5096	0	13.5096
69.3	0.9359	14.3117	0	14.3117
69.3333	0.9806	14.9823	0	14.9823
69.3667	1.0237	15.7187	0	15.7187
69.4	1.0688	16.4156	0	16.4156
69.4333	1.1096	17.0863	0.0006	17.0869
69.4667	1.1452	17.7043	0.0006	17.7049
69.5	1.188	18.375	0	18.375
69.5333	1.2281	19.0193	0.0006	19.0199
69.5667	1.2637	19.611	0	19.611
69.6	1.2982	20.2159	0	20.2159
69.6333	1.3357	20.8602	0.0006	20.8608
69.6667	1.368	21.3862	0	21.3862
69.7	1.3986	21.9911	0	21.9911
69.7333	1.4253	22.5171	0	22.5171
69.7667	1.4371	23.0431	0.0006	23.0437
69.8 69.8333	1.4325 1.4279	23.477	0	23.477
69.8667	1.4279	24.003 24.4107	0	24.003 24.4107
69.9	1.4233	24.4107	0.0006	24.4107
69.9333	1.42	25.2128	0.0019	25.2147
69.9667	1.4184	25.6205	0.0019	25.6224
70	1.4246	25.8966	0.0019	25.8985
70.0333	1.4296	26.3042	0.0019	26.3042
70.0667	1.4361	26.5672	0	26.5672
70.0007	1.4411	26.9354	0.0006	26.936
70.1333	1.4493	27.2379	0.0019	27.2398
70.1667	1.4509	27.6455	0.0006	27.6461
70.1007	1.4575	27.8954	0.0000	27.8954
70.2	1.4575	27.0554	U	27.0554



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,,	(100.7)	(=,	(=)	()
70.2333	1.4635	28.1452	0.0006	28.1458
70.2667	1.4694	28.5397	0.0006	28.5403
70.3	1.4769	28.7369	0.0006	28.7375
70.3333	1.4862	29.0525	0.0019	29.0544
70.3667	1.4908	29.3287	0	29.3287
70.4	1.4941	29.6048	0.0006	29.6054
70.4333	1.5023	29.8021	0.0006	29.8027
70.4667	1.5092	30.0782	0.0006	30.0788
70.5	1.5145	30.3807	0.0006	30.3812
70.5333	1.5214	30.6042	0.0006	30.6048
70.5667	1.5247	30.8935	0	30.8935
70.6	1.5322	31.1302	0	31.1302
70.6333	1.5372	31.3537	0.0006	31.3543
70.6667	1.5438	31.6036	0	31.6036
70.7	1.5546	31.8271	0.0006	31.8277
70.7333	1.5576	32.0375	0.0006	32.0381
70.7667	1.5691	32.3137	0.0006	32.3143
70.8	1.5737	32.5241	0.0006	32.5247
70.8333	1.5763	32.7476	0	32.7476
70.8667	1.5859	32.9317	0.0006	32.9323
70.9	1.5935	33.1552	0.0019	33.1572
70.9333	1.5971	33.313	0	33.313
70.9667	1.603	33.6155	0.0006	33.6161
71	1.6083	33.7864	0	33.7864
71.0333	1.6175	33.9442	0	33.9442
71.0667	1.6224	34.1941	0	34.1941
71.1	1.6214	34.4176	0.0019	34.4195
71.1333	1.6175	34.5228	0.0006	34.5234
71.1667	1.6185 1.6152	34.7727	0	34.7727
71.2 71.2333	1.6172	34.8779 35.0883	0.0006	34.8785 35.0889
71.2667	1.6188	35.2987	0.0006	35.2992
71.2667	1.6165	35.4301	0.0006	35.4301
71.3333	1.6208	35.6142	0.0006	35.6148
71.3667	1.6198	35.8246	0.0008	35.8246
71.3007	1.6218	35.9167	0.0006	35.9173
71.4333	1.6214	36.0613	0.0000	36.0613
71.4667	1.6247	36.1271	0	36.1271
71.4007	1.6231	36.3112	0	36.3112
71.5333	1.6274	36.4953	0	36.4953
71.5667	1.63	36.6268	0.0006	36.6274
71.6	1.63	36.7583	0.0006	36.7589
71.6333	1.631	36.9555	0.0019	36.9574
	VANCOUS CO.			STATES OF STREET



Project No. G100982213SAT-003

(min) (psi) (LPM) (LPM) (LPM) 71.66667 1.633 37.1133 0.0006 37.1139 71.7 1.6349 37.1659 0 37.1639 71.7333 1.6362 37.2448 0.0006 37.2454 71.7667 1.6395 37.3632 0 37.5347 71.8333 1.6405 37.6919 0 37.6919 71.8667 1.6435 37.8102 0.0006 37.8108 71.9333 1.6451 37.8365 0.0006 37.8171 71.9333 1.6451 38.365 0.0006 38.1133 72 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5541 72.1 1.6392 38.5598 0 38.5598 72.1333 1.6392 38.757 0.0006 38.8497 72.2667 1.6343 38.9937 0	Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
71.7 1.6349 37.1659 0 37.1659 71.7333 1.6362 37.2448 0.0006 37.2454 71.7667 1.6395 37.3632 0 37.3632 71.8 1.6412 37.5341 0.0006 37.5347 71.8333 1.6405 37.6919 0 37.6919 71.9667 1.6435 37.8365 0.0006 37.8108 71.9333 1.6445 37.968 0 37.968 71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2442 0.0006 38.2448 72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5598 72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.8497 72.2 1.6343 38.9337 0 38.9337 72.2667 1.6343 38.9937 0	(min)	(psi)	(LPM)	(LPM)	(LPM)
71.7 1.6349 37.1659 0 37.1659 71.7333 1.6362 37.2448 0.0006 37.2454 71.7667 1.6395 37.3632 0 37.3632 71.8 1.6412 37.5341 0.0006 37.5347 71.8333 1.6405 37.6919 0 37.6919 71.9667 1.6435 37.8365 0.0006 37.8108 71.9333 1.6445 37.968 0 37.968 71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2442 0.0006 38.2448 72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5598 72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.8497 72.2 1.6343 38.9337 0 38.9337 72.2667 1.6343 38.9937 0					20 21 1
71.7333 1.6362 37.2448 0.0006 37.2454 71.7667 1.6395 37.3632 0 37.3632 71.8 1.6412 37.5341 0.0006 37.5347 71.8333 1.6405 37.6919 0 37.6919 71.8667 1.6435 37.8102 0.0006 37.8108 71.9 1.6451 37.8365 0.0006 37.8371 71.9333 1.6435 37.968 0 37.968 71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2968 0 38.2948 72.0333 1.6445 38.2968 0 38.5948 72.04667 1.6428 38.5355 0.0006 38.5598 72.1333 1.6392 38.757 0.0006 38.7839 72.21667 1.6386 38.8491 0.0006 38.7839 72.22 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 </th <th></th> <th></th> <th></th> <th></th> <th></th>					
71.7667 1.6395 37.3632 0 37.3632 71.8 1.6412 37.5341 0.0006 37.5347 71.8333 1.6405 37.6919 0 37.6919 71.8667 1.6435 37.8102 0.0006 37.8108 71.9 1.6451 37.8365 0.0006 37.8371 71.9333 1.6435 37.968 0 37.968 71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2968 0 38.2948 72.0333 1.6445 38.2968 0 38.5948 72.0667 1.6428 38.5335 0.0006 38.5598 72.1667 1.6392 38.5598 0 38.5598 72.1667 1.6386 38.8491 0.0006 38.7839 72.21667 1.6343 38.7833 0.0006 38.7839 72.23 1.6316 39.1252 0.0006 39.1258 72.33 1.6316 39.1252 0.0006<					
71.8 1.6412 37.5341 0.0006 37.5347 71.8333 1.6405 37.6919 0 37.6919 71.8667 1.6435 37.8102 0.0006 37.8108 71.9 1.6451 37.8365 0.0006 37.8371 71.9333 1.6435 37.968 0 37.968 71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2968 0 38.2948 72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5341 72.1 1.6392 38.5598 0 38.5541 72.1 1.6392 38.5598 0 38.757 72.1667 1.6386 38.8491 0.0006 38.757 72.1667 1.6343 38.7833 0.0006 38.7839 72.23 1.6316 39.1252 0.0006 39.1258 72.33 1.6316 39.1252 0.0006					
71.8333 1.6405 37.6919 0 37.6919 71.8667 1.6435 37.8102 0.0006 37.8108 71.9 1.6451 37.8365 0.0006 37.8371 71.9333 1.6435 37.968 0 37.968 71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2442 0.0006 38.2448 72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5598 72.1333 1.6392 38.5598 0 38.5598 72.1667 1.6386 38.8491 0.0006 38.7576 72.1667 1.6343 38.7833 0.0006 38.7839 72.2333 1.6316 39.1252 0.0006 39.1258 72.3333 1.6313 39.31252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.4667 1.6297 39.3556					
71.8667 1.6435 37.8102 0.0006 37.8108 71.9 1.6451 37.8365 0.0006 37.8371 71.9333 1.6435 37.968 0 37.968 71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2442 0.0006 38.2448 72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5341 72.1 1.6392 38.5598 0 38.5598 72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.7839 72.2333 1.6339 39.0332 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2441 72.3667 1.6297 39.3356 0 </th <th></th> <th></th> <th></th> <th></th> <th></th>					
71.9 1.6451 37.8365 0.0006 37.8371 71.9333 1.6435 37.968 0 37.968 71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2442 0.0006 38.2448 72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5341 72.1 1.6392 38.5598 0 38.5598 72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.7839 72.21 1.6343 38.7833 0.0006 39.0338 72.2333 1.6316 39.1252 0.0006 39.1258 72.34 1.6316 39.1252 0.0006 39.3756 72.33 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3519 72.45667 1.6287 39.546 0					
71.9333 1.6435 37.968 0 37.968 71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2442 0.0006 38.2448 72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5598 72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.8497 72.2 1.6343 38.7833 0.0006 39.0338 72.2333 1.6339 39.0332 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4333 1.6307 39.5197 0 39.5197 72.45667 1.6287 39.546 0 <th></th> <th></th> <th></th> <th></th> <th></th>					
71.9667 1.6481 38.1127 0.0006 38.1133 72 1.6428 38.2442 0.0006 38.2448 72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5598 72.1 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.7839 72.2333 1.6339 39.0332 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4567 1.6274 39.546 0 39.546 72.5 1.6287 39.7827 0.0006					
72 1.6428 38.2442 0.0006 38.2448 72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5598 72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.7839 72.2333 1.6339 39.0332 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.7038 0 39.738 72.5333 1.6274 39.7827 0.0006				_	
72.0333 1.6445 38.2968 0 38.2968 72.0667 1.6428 38.5335 0.0006 38.5541 72.1 1.6392 38.5598 0 38.5598 72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.8497 72.2 1.6343 38.7833 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6287 39.6249 0.0006 39.5255 72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0					
72.0667 1.6428 38.5335 0.0006 38.5341 72.1 1.6392 38.5598 0 38.5598 72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.7839 72.2 1.6343 38.7833 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.546 72.5 1.6287 39.546 0 39.546 72.5 1.6287 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7833 72.6333 1.6287 40.0063 0 40.006					
72.1 1.6392 38.5598 0 38.5598 72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.8497 72.2 1.6343 38.7833 0.0006 38.7839 72.2333 1.6339 39.0332 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6287 39.546 0 39.546 72.5 1.6287 39.7038 0 39.7038 72.567 1.626 39.7696 0 39.7833 72.6 1.6287 39.98 0 39.98 <th></th> <th></th> <th></th> <th></th> <th></th>					
72.1333 1.6392 38.757 0.0006 38.7576 72.1667 1.6386 38.8491 0.0006 38.8497 72.2 1.6343 38.7833 0.0006 38.7839 72.2333 1.6339 39.0332 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.6249 0.0006 39.7695 72.5333 1.6274 39.7038 0 39.7833 72.667 1.626 39.7696 0 39.7833 72.6333 1.6287 40.0063 0					
72.1667 1.6386 38.8491 0.0006 38.8497 72.2 1.6343 38.7833 0.0006 38.7839 72.2333 1.6339 39.0332 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.549 0.0006 39.7695 72.5333 1.6274 39.7038 0 39.783 72.5667 1.626 39.7696 0 39.7833 72.6533 1.6287 39.98 0 39.7833 72.6667 1.6267 39.98 0 39.9				_	
72.2 1.6343 38.7833 0.0006 38.7839 72.2333 1.6339 39.0332 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.549 0.0006 39.7695 72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7833 72.667 1.6287 39.7827 0.0006 39.7833 72.6333 1.6287 40.0063 0 40.0589 72.7 1.6267 40.0589 0 40.					
72.2333 1.6339 39.0332 0.0006 39.0338 72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.5249 0.0006 39.7038 72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7833 72.6333 1.6287 39.7827 0.0006 39.7833 72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7667 1.6237 40.164 0.0019 40.					
72.2667 1.6343 38.9937 0 38.9937 72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.6249 0.0006 39.6255 72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7833 72.6333 1.6287 39.7827 0.0006 39.7833 72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304					
72.3 1.6316 39.1252 0.0006 39.1258 72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.6249 0.0006 39.7695 72.5333 1.6274 39.7038 0 39.7696 72.6 1.6287 39.7827 0.0006 39.7833 72.6333 1.6287 39.98 0 39.98 72.7 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955					
72.3333 1.6323 39.2041 0 39.2041 72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.46667 1.6274 39.546 0 39.546 72.5 1.6287 39.6249 0.0006 39.7038 72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7833 72.6333 1.6287 39.7827 0.0006 39.7833 72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.78 1.6241 40.2298 0.0006 40.2304 72.83 1.6241 40.2955 0 40.2955 72.86667 1.6267 40.3744 0.0006 40					
72.3667 1.6297 39.3356 0 39.3356 72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.6249 0.0006 39.7038 72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7896 72.6 1.6287 39.7827 0.0006 39.7833 72.6333 1.6287 40.0063 0 40.0063 72.7 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.8 1.6241 40.2298 0.0006 40.2304 72.8 1.6241 40.2955 0 40.2955 72.8 1.6267 40.3744 0.0006 40.375					
72.4 1.6313 39.3751 0.0019 39.377 72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.6249 0.0006 39.6255 72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7833 72.6333 1.6287 39.7827 0.0006 39.7833 72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.86667 1.6267 40.3744 0.0006 40.375 72.9 1.6267 40.427 0 40.427 72.9333 1.626 40.4533 0 40.453					
72.4333 1.6307 39.5197 0 39.5197 72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.6249 0.0006 39.5255 72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7896 72.6 1.6287 39.7827 0.0006 39.7833 72.6333 1.6287 40.0063 0 40.0063 72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.6267 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 <th></th> <th></th> <th></th> <th></th> <th></th>					
72.4667 1.6274 39.546 0 39.546 72.5 1.6287 39.6249 0.0006 39.6255 72.5333 1.6274 39.7038 0 39.7038 72.56667 1.626 39.7696 0 39.7696 72.6 1.6287 39.7827 0.0006 39.7833 72.6333 1.6287 40.0063 0 40.0063 72.66667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.8 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.86667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533					
72.5 1.6287 39.6249 0.0006 39.6255 72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7696 72.6 1.6287 39.7827 0.0006 39.7833 72.6333 1.6287 40.0063 0 40.0063 72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.8 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197 </th <th></th> <th></th> <th></th> <th></th> <th></th>					
72.5333 1.6274 39.7038 0 39.7038 72.5667 1.626 39.7696 0 39.7696 72.6 1.6287 39.7827 0.0006 39.7833 72.6333 1.6287 40.0063 0 40.0063 72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.5667 1.626 39.7696 0 39.7696 72.6 1.6287 39.7827 0.0006 39.7833 72.6333 1.6287 40.0063 0 40.0063 72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.6 1.6287 39.7827 0.0006 39.7833 72.6333 1.6287 40.0063 0 40.0063 72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.6333 1.6287 40.0063 0 40.0063 72.66667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197				_	
72.6667 1.6267 39.98 0 39.98 72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.7 1.6267 40.0589 0 40.0589 72.7333 1.6274 40.072 0.0006 40.0726 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197				_	
72.7333 1.6274 40.072 0.0006 40.0726 72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.7667 1.6237 40.164 0.0019 40.166 72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.8 1.6241 40.2298 0.0006 40.2304 72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.8333 1.6241 40.2955 0 40.2955 72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.8667 1.6267 40.3744 0.0006 40.375 72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.9 1.627 40.427 0 40.427 72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.9333 1.626 40.4533 0 40.4533 72.9667 1.627 40.5191 0.0006 40.5197					
72.9667 1.627 40.5191 0.0006 40.5197				_	
.5 1.0254 40.0245					
73.0333 1.6254 40.7295 0 40.7295	100				
73.0667 1.6267 40.7295 0 40.7295					



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(100.7)	(=,	(,	(,
73.1	1.6264	40.7295	0.0006	40.7301
73.1333	1.6241	40.8215	0.0006	40.8221
73.1667	1.6247	40.8873	0	40.8873
73.2	1.6267	40.9662	0.0006	40.9668
73.2333	1.6257	41.0056	0.0006	41.0062
73.2667	1.6247	41.0845	0.0006	41.0851
73.3	1.6241	41.0451	0	41.0451
73.3333	1.626	41.0977	0	41.0977
73.3667	1.6231	41.1766	0	41.1766
73.4	1.6267	41.216	0.0006	41.2166
73.4333	1.6267	41.2949	0.0006	41.2955
73.4667	1.6228	41.3081	0	41.3081
73.5	1.6254	41.387	0.0006	41.3876
73.5333	1.6274	41.387	0.0006	41.3876
73.5667	1.6254	41.4264	0.0006	41.427
73.6	1.627	41.4396	0.0006	41.4402
73.6333	1.6247	41.4922	0	41.4922
73.6667	1.6257	41.5316	0	41.5316
73.7	1.6251	41.6237	0	41.6237
73.7333	1.6251	41.6368	0.0006	41.6374
73.7667	1.627	41.65	0	41.65
73.8	1.6254	41.7026	0	41.7026
73.8333	1.6283	41.7552	0.0006	41.7558
73.8667	1.6247	41.7289	0.0006	41.7295
73.9	1.6264	41.8078	0	41.8078
73.9333	1.6244	41.8867	0	41.8867
73.9667	1.6251	41.9261	0.0006	41.9267
74	1.6257	41.8998	0	41.8998
74.0333 74.0667	1.6274	41.9393	0	41.9393
74.0667	1.6257 1.6251	42.0313 42.0445	0	42.0313 42.0445
74.1333	1.6247	42.0445	0	42.0445
74.1333	1.6254	42.0576	0	42.0576
74.1667	1.6283	42.0376	0	42.0376
74.2333	1.628	42.0971	0	42.0971
74.2667	1.63	42.2023	0	42.2023
74.2007	1.629	42.2549	0.0006	42.2555
74.3333	1.6307	42.2943	0.0008	42.2943
74.3667	1.6316	42.268	0.0006	42.2543
74.3007	1.6323	42.3075	0.0008	42.2086
74.4333	1.6333	42.268	0	42.268
74.4667	1.632	42.3732	0	42.3732
74.4007	1.6349	42.3995	0	42.3995
, 4.5	2.0040	12.3333	U	



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
74.5333	1.6346	42.4784	0.0006	42.479
74.5667	1.6353	42.439	0.0006	42.4395
74.6	1.6343	42.4916	0.0006	42.4921
74.6333	1.6343	42.531	0.0006	42.5316
74.6667	1.6372	42.5179	0	42.5179
74.7	1.6349	42.5441	0.0006	42.5447
74.7333	1.6369	42.6099	0.0006	42.6105
74.7667	1.6409	42.6362	0.0006	42.6368
74.8	1.6392	42.623	0	42.623
74.8333	1.6376	42.6756	0	42.6756
74.8667	1.6409	42.7019	0.0006	42.7025
74.9	1.6412	42.7414	0	42.7414
74.9333	1.6379	42.7808	0	42.7808
74.9667	1.6432	42.8071	0.0019	42.8091
75	1.6412	42.794	0.0006	42.7946
75.0333	1.6422	42.8597	0.0006	42.8603
75.0667	1.6402	42.794	0.0006	42.7946
75.1	1.6409	42.8992	0.0032	42.9024
75.1333	1.6435	42.9123	0	42.9123
75.1667	1.6428	42.8597	0.0006	42.8603
75.2	1.6409	43.0044	0	43.0044
75.2333	1.6382	42.9912	0	42.9912
75.2667	1.6366	43.0044	0	43.0044
75.3	1.6349	42.9386	0.0006	42.9392
75.3333	1.6323	42.9781	0	42.9781
75.3667	1.632	43.0175	0.0006	43.0181
75.4	1.6287	43.0175	0	43.0175
75.4333 75.4667	1.6313	43.0438 43.1359	0.0006	43.0438 43.1365
75.4667	1.6287	43.1359	0.0006	43.1102
75.5333	1.627	43.0964	0.0006	43.1102
75.5667	1.6254	43.1622	0.0000	43.1622
75.6	1.627	43.1227	0	43.1227
75.6333	1.6237	43.1622	0	43.1622
75.6667	1.6251	43.1096	0.0019	43.1115
75.7	1.6241	43.1096	0.0019	43.1115
75.7333	1.6241	43.1622	0.0019	43.1622
75.7667	1.6234	43.0964	0	43.0964
75.8	1.6214	43.1753	0.0006	43.1759
75.8333	1.6191	43.2016	0.0000	43.2016
75.8667	1.6208	43.2411	0	43.2411
75.9	1.6178	43.2542	0	43.2542
75.9333	1.6195	43.2148	0	43.2148



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(рэт)	(Li ivi)	(2.10)	(11111)
75.9667	1.6178	43.2674	0	43.2674
76	1.6195	43.2674	0	43.2674
76.0333	1.6168	43.2279	0.0006	43.2285
76.0667	1.6201	43.2411	0	43.2411
76.1	1.6204	43.1885	0.0006	43.1891
76.1333	1.6224	43.2542	0.0006	43.2548
76.1667	1.6251	43.3068	0	43.3068
76.2	1.6287	43.3463	0	43.3463
76.2333	1.6251	43.2937	0.0006	43.2943
76.2667	1.6287	43.3068	0.0006	43.3074
76.3	1.6277	43.2805	0.0006	43.2811
76.3333	1.6274	43.3594	0	43.3594
76.3667	1.6303	43.3726	0.0006	43.3732
76.4	1.6326	43.3463	0	43.3463
76.4333	1.6339	43.3594	0	43.3594
76.4667	1.6326	43.3989	0	43.3989
76.5	1.6359	43.3463	0	43.3463
76.5333	1.6386	43.4383	0	43.4383
76.5667	1.6362	43.4909	0.0006	43.4915
76.6	1.6346	43.4515	0	43.4515
76.6333	1.6369	43.5041	0.0006	43.5047
76.6667	1.6418	43.4778	0	43.4778
76.7	1.6422	43.5041	0.0006	43.5047
76.7333	1.6409	43.5304	0	43.5304
76.7667	1.6379	43.4778	0	43.4778
76.8	1.6405	43.5304	0.0006	43.531
76.8333	1.6428	43.5304	0	43.5304
76.8667	1.6422	43.5567	0	43.5567
76.9	1.6399	43.583	0	43.583
76.9333	1.6465	43.6487	0	43.6487
76.9667	1.6422	43.6093	0.0006	43.6099
77	1.6445	43.5961	0.0006	43.5967
77.0333	1.6418	43.6487	0.0006	43.6493
77.0667	1.6432	43.6093	0	43.6093
77.1	1.6474	43.6356	0	43.6356
77.1333	1.6451	43.6356	0.0006	43.6362
77.1667 77.2	1.6478 1.6504	43.6356 43.7539	0.0019	43.6356 43.7558
77.2333	1.6504		0.0019	43.7558
77.2667	1.6494	43.7013 43.7408	0.0019	43.7427
77.3	1.6484		0.0019	43.7427
77.3333	1.6474	43.675 43.7934	0.0006	43.7934
77.3667	1.6504	43.7934	0	43.7276
//.300/	1.0304	43.72/6	U	43.7270



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,,		(=====,		
77.4	1.6481	43.6882	0.0006	43.6888
77.4333	1.6511	43.7145	0	43.7145
77.4667	1.6494	43.7802	0	43.7802
77.5	1.6481	43.7671	0.0019	43.769
77.5333	1.6491	43.8197	0.0006	43.8203
77.5667	1.6527	43.846	0.0006	43.8466
77.6	1.6616	43.846	0	43.846
77.6333	1.6744	43.8328	0	43.8328
77.6667	1.6886	43.846	0	43.846
77.7	1.6991	43.938	0.0006	43.9386
77.7333	1.7156	43.9775	0.0019	43.9794
77.7667	1.7235	44.0169	0.0019	44.0188
77.8	1.7353	44.0827	0.0006	44.0833
77.8333	1.7439	44.0432	0	44.0432
77.8667	1.7544	44.0695	0.0006	44.0701
77.9	1.7616	44.1616	0.0006	44.1622
77.9333	1.7676	44.1879	0	44.1879
77.9667	1.7784	44.3062	0.0006	44.3068
78	1.7817	44.2799	0.0006	44.2805
78.0333	1.7939	44.4246	0.0006	44.4252
78.0667	1.8002	44.5035	0.0006	44.5041
78.1	1.81	44.5824	0	44.5824
78.1333	1.8232	44.5692	0	44.5692
78.1667	1.8364	44.635	0.0006	44.6356
78.2	1.8436	44.6876	0.0019	44.6895
78.2333	1.8525	44.8191	0.0019	44.821
78.2667	1.8617	44.8191	0.0006	44.8197
78.3 78.3333	1.8752 1.8782	44.8848 45.0031	0.0006	44.8854 45.0031
78.3667	1.8903	45.0031	0	45.0031
78.4	1.8969	45.0952	0	45.1478
78.4333	1.9028	45.2793	0	45.2793
78.4667	1.914	45.2661	0	45.2661
78.5	1.92	45.345	0.0006	45.3456
78.5333	1.9292	45.4502	0.0000	45.4502
78.5667	1.9335	45.516	0.0006	45.5166
78.6	1.9404	45.5686	0.0000	45.5686
78.6333	1.9463	45.7001	0.0006	45.7007
78.6667	1.9489	45.7132	0.0000	45.7132
78.7	1.9591	45.8447	0	45.8447
78.7333	1.9624	45.9105	0	45.9105
78.7667	1.9706	46.0157	0	46.0157
78.8	1.9739	46.1077	0	46.1077
	THE STATE OF THE PARTY OF THE P			CONTRACTOR OF THE



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
78.8333	1.9799	46.1998	0.0006	46.2004
78.8667	1.9795	46.2392	0.0006	46.2398
78.9	1.9861	46.305	0.0006	46.3056
78.9333	1.995	46.4365	0	46.4365
78.9667	1.9976	46.568	0	46.568
79	1.9999	46.6863	0.0006	46.6869
79.0333	2.0052	46.6337	0.0019	46.6356
79.0667	2.0108	46.7652	0.0019	46.7671
79.1	2.0118	46.8441	0.0019	46.846
79.1333	2.0148	46.8836	0	46.8836
79.1667	2.02	47.0019	0.0019	47.0038
79.2	2.0203	47.1466	0.0019	47.1485
79.2333	2.0269	47.1466	0.0006	47.1472
79.2667	2.025	47.2912	0.0006	47.2918
79.3	2.0289	47.3175	0.0006	47.3181
79.3333	2.0299	47.4227	0.0019	47.4246
79.3667	2.0325	47.4753	0.0006	47.4759
79.4	2.0329	47.5936	0.0006	47.5942
79.4333	2.0352	47.6988	0.0006	47.6994
79.4667	2.0348	47.804	0	47.804
79.5	2.0348	47.8435	0	47.8435
79.5333	2.0358	47.8435	0.0006	47.8441
79.5667	2.0414	47.9618	0	47.9618
79.6	2.0424	48.0407	0	48.0407
79.6333	2.0421	48.0407	0	48.0407
79.6667	2.0454	48.1065	0	48.1065
79.7	2.0444	48.238	0	48.238
79.7333 79.7667	2.0463	48.2906 48.3695	0	48.2906 48.3695
79.7667	2.046	48.3958	0.0006	48.3964
79.8333	2.046	48.501	0.0006	48.5016
79.8667	2.0454	48.6062	0.0000	48.6062
79.9	2.0483	48.6325	0.0019	48.6344
79.9333	2.0483	48.6719	0.0015	48.6725
79.9667	2.0473	48.7771	0.0000	48.7771
80	2.0447	48.7903	0	48.7903
80.0333	2.0421	48.8297	0.0006	48.8303
80.0667	2.0414	48.9349	0.0000	48.9349
80.1	2.0381	48.9744	0.0019	48.9763
80.1333	2.0388	49.1059	0.0006	49.1065
80.1667	2.0404	49.0664	0.0000	49.0664
80.2	2.0375	49.119	0	49.119
80.2333	2.0355	49.2242	0.0006	49.2248
			0.0030	



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,,		(=====,		
80.2667	2.0319	49.1848	0	49.1848
80.3	2.0348	49.2768	0.0019	49.2787
80.3333	2.0332	49.29	0	49.29
80.3667	2.0276	49.4083	0.0006	49.4089
80.4	2.025	49.3426	0.0006	49.3432
80.4333	2.0273	49.4346	0	49.4346
80.4667	2.024	49.4083	0	49.4083
80.5	2.025	49.553	0	49.553
80.5333	2.0246	49.6056	0	49.6056
80.5667	2.0187	49.6187	0.0006	49.6193
80.6	2.0227	49.7108	0	49.7108
80.6333	2.0207	49.7371	0	49.7371
80.6667	2.0187	49.7502	0.0006	49.7508
80.7	2.019	49.8159	0.0006	49.8165
80.7333	2.0223	49.7896	0	49.7896
80.7667	2.0171	49.8291	0	49.8291
80.8	2.0151	49.8554	0.0006	49.856
80.8333	2.0157	49.8554	0	49.8554
80.8667	2.0177	49.908	0.0006	49.9086
80.9	2.0174	49.9606	0.0006	49.9612
80.9333	2.019	49.9474	0.0006	49.948
80.9667	2.0157	50	0.0006	50.0006
81	2.0157	50.0658	0	50.0658
81.0333	2.0154	50.1184	0	50.1184
81.0667	2.0171	50.0658	0.0006	50.0664
81.1	2.0151	50.1052	0	50.1052
81.1333 81.1667	2.0141	50.1447	0.0006	50.1453 50.1184
81.1667	2.0151	50.1184 50.171	0.0006	50.1184
81.2333	2.0141 2.019	50.171	0.0006	50.1716
81.2667	2.019	50.1841	0.0006	50.1979
81.3	2.018	50.3025	0.0000	50.3025
81.3333	2.013	50.2762	0	50.2762
81.3667	2.018	50.3288	0.0006	50.3294
81.4	2.0174	50.3156	0.0006	50.3162
81.4333	2.021	50.3682	0.0000	50.3682
81.4667	2.0217	50.3419	0.0006	50.3425
81.5	2.021	50.3945	0	50.3945
81.5333	2.022	50.3945	0.0006	50.3951
81.5667	2.0213	50.4603	0.0006	50.4609
81.6	2.0187	50.4471	0	50.4471
81.6333	2.0236	50.434	0	50.434
81.6667	2.0233	50.4997	0.0006	50.5003



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
81.7	2.0243	50.4471	0	50.4471
81.7333	2.023	50.4734	0.0006	50.474
81.7667	2.0227	50.6049	0.0006	50.6055
81.8	2.0266	50.5918	0.0006	50.5924
81.8333	2.0256	50.6312	0	50.6312
81.8667	2.0227	50.6312	0	50.6312
81.9	2.0256	50.697	0.0006	50.6976
81.9333	2.0256	50.7101	0.0006	50.7107
81.9667	2.0269	50.697	0.0006	50.6976
82	2.0266	50.6444	0	50.6444
82.0333	2.0302	50.7233	0.0006	50.7239
82.0667	2.0289	50.789	0	50.789
82.1	2.0269	50.789	0.0006	50.7896
82.1333	2.0269	50.8153	0	50.8153
82.1667	2.0243	50.8679	0.0006	50.8685
82.2	2.0259	50.789	0	50.789
82.2333	2.0243	50.8811	0.0006	50.8817
82.2667	2.0236	50.9731	0.0006	50.9737
82.3	2.0256	50.9337	0	50.9337
82.3333	2.023	50.9731	0	50.9731
82.3667	2.0243	50.9863	0.0006	50.9869
82.4	2.0217	51.0257	0	51.0257
82.4333	2.02	51.1572	0.0006	51.1578
82.4667	2.0223	51.1178	0	51.1178
82.5	2.0246	51.1704	0	51.1704
82.5333	2.021	51.1835	0.0006	51.1841
82.5667	2.02	51.1835	0	51.1835
82.6	2.0203	51.1704	0	51.1704
82.6333	2.0174	51.2098	0	51.2098
82.6667 82.7	2.0174	51.2361 51.2756	0.0019	51.238 51.2756
82.7333	2.0157	51.315	0.0006	51.3156
82.7667	2.0134	51.2624	0.0008	51.3136
82.7667	2.0174	51.3019	0.0006	51.3025
82.8333	2.0157	51.315	0.0008	51.3025
82.8667	2.0131	51.3545	0.0006	51.3551
82.9	2.0164	51.5123	0.0006	51.5331
82.9333	2.0144	51.4334	0.0006	51.434
82.9667	2.0144	51.4728	0.0006	51.4734
83	2.0144	51.4728	0.0008	51.4734
83.0333	2.0113	51.5517	0	51.5517
83.0667	2.0128	51.5386	0.0006	51.5317
83.1	2.0118	51.578	0.0008	51.5592
03.1	2.0120	51.576	Ü	31.376



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(1231)	(Li ivi)	(2.10)	(11111)
83.1333	2.0115	51.7227	0	51.7227
83.1667	2.0118	51.6175	0.0006	51.6181
83.2	2.0075	51.5912	0	51.5912
83.2333	2.0108	51.6701	0	51.6701
83.2667	2.0118	51.6175	0	51.6175
83.3	2.0072	51.7358	0	51.7358
83.3333	2.0065	51.6832	0	51.6832
83.3667	2.0115	51.7095	0.0006	51.7101
83.4	2.0115	51.8279	0	51.8279
83.4333	2.0118	51.8279	0	51.8279
83.4667	2.0085	51.7884	0	51.7884
83.5	2.0072	51.841	0	51.841
83.5333	2.0121	51.8673	0.0006	51.8679
83.5667	2.0098	51.8147	0.0019	51.8166
83.6	2.0098	51.8805	0	51.8805
83.6333	2.0105	51.841	0	51.841
83.6667	2.0108	51.9199	0	51.9199
83.7	2.0141	51.8673	0.0019	51.8692
83.7333	2.0134	51.9199	0	51.9199
83.7667	2.0161	51.9857	0.0006	51.9863
83.8	2.0144	52.0251	0	52.0251
83.8333	2.0171	52.104	0	52.104
83.8667	2.0164	52.0514	0.0006	52.052
83.9	2.0157	52.0909	0	52.0909
83.9333	2.0177	52.0777	0.0019	52.0796
83.9667	2.0217	52.1303	0	52.1303
84	2.0184	52.1303	0	52.1303
84.0333	2.0171	52.1566	0	52.1566
84.0667	2.0203	52.1698	0	52.1698
84.1	2.019	52.1566	0	52.1566
84.1333	2.0194	52.2355	0.0006	52.2361
84.1667	2.0203	52.3407	0.0006	52.3413
84.2	2.021	52.2749	0.0006	52.2755
84.2333	2.0197	52.2881	0.0006	52.2887
84.2667	2.0223	52.3538	0	52.3538
84.3	2.0246	52.2618	0	52.2618
84.3333 84.3667	2.0197	52.367 52.3538	0.0006	52.3676 52.3538
			0	
84.4 84.4333	2.024	52.3407 52.367	0.0006	52.3407 52.3676
84.4667	2.0227	52.3933	0.0006	52.3939
7,53,5,5,5,5	1.9042			
84.5 84.5333	1.8064	52.3801 52.3275	0	52.3801 52.3275
64.5555	1.6064	52.52/5	U	52.32/5



Project No. G100982213SAT-003

Time		Ch 2 High Flow		
(min)	(psi)	(LPM)	(LPM)	(LPM)
84.5667	1.7126	52.1698	0	52.1698
84.6	1.6218	51.9988	0.0019	52.0007
84.6333	1.5388	51.8673	0.0019	51.8673
84.6667	1.4611	51.578	0	51.578
84.7	1.3871	51.3282	0	51.3282
84.7333	1.3144	51.0126	0.0006	51.0132
84.7667	1.2512	50.7759	0.0006	50.7765
84.8	1.1867	50.3814	0.0008	50.7765
84.8333	1.1287	49.9869	0.0006	49.9875
84.8667	1.0784	49.7765	0.0008	49.7765
84.9	1.0784	49.3031	0	49.7763
84.9333	0.9773	48.9612	0	48.9612
84.9667	0.9303	48.5141	0	48.5141
85	0.8842	48.0933	0	48.0933
85.0333	0.8434	47.6725	0	47.6725
85.0667	0.8055	47.2123	0.0006	47.0723
85.1	0.768	46.7652	0.0000	46.7652
85.1333	0.7308	46.4233	0	46.4233
85.1667	0.6979	45.9368	0	45.9368
85.2	0.6669	45.4239	0	45.4239
85.2333	0.636	44.8848	0	44.8848
85.2667	0.6064	44.5298	0.0006	44.5304
85.3	0.5778	44.0038	0.0006	44.0044
85.3333	0.5504	43.4646	0.0000	43.4646
85.3667	0.5225	42.8729	0.0006	42.8735
85.4	0.5001	42.3469	0.0000	42.3469
85.4333	0.4761	41.9261	0.0006	41.9267
85.4667	0.453	41.4396	0.0000	41.4396
85.5	0.4303	40.9267	0	40.9267
85.5333	0.4109	40.3744	0	40.3744
85.5667	0.3911	39.8222	0.0019	39.8241
85.6	0.3734	39.2962	0	39.2962
85.6333	0.3543	38.6387	0	38.6387
85.6667	0.3372	38.2573	0.0006	38.2579
85.7	0.3214	37.6262	0.0006	37.6267
85.7333	0.3033	37.1659	0.0006	37.1665
85.7667	0.2888	36.6005	0.0000	36.6005
85.8	0.2733	36.0219	0	36.0219
85.8333	0.2585	35.5616	0.0006	35.5622
85.8667	0.2457	34.9699	0.0019	34.9718
85.9	0.2322	34.4439	0.0015	34.4439
85.9333	0.216	33.8916	0	33.8916
85.9667	0.2068	33.2604	0	33.2604
		and the same of the		Walter Street Street



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,				
86	0.1933	32.7608	0	32.7608
86.0333	0.1844	32.2085	0.0006	32.2091
86.0667	0.1736	31.6299	0.0006	31.6305
86.1	0.1627	31.1039	0.0006	31.1045
86.1333	0.1558	30.5384	0.0006	30.539
86.1667	0.1476	30.0388	0	30.0388
86.2	0.137	29.3813	0.0006	29.3819
86.2333	0.1262	28.921	0	28.921
86.2667	0.1203	28.395	0	28.395
86.3	0.113	27.8033	0	27.8033
86.3333	0.1061	27.2773	0	27.2773
86.3667	0.0979	26.6987	0.0006	26.6993
86.4	0.092	26.2385	0.0006	26.2391
86.4333	0.0854	25.7256	0	25.7256
86.4667	0.0794	25.1865	0.0006	25.1871
86.5	0.0715	24.6474	0.0006	24.648
86.5333	0.0653	24.0425	0	24.0425
86.5667	0.0604	23.5428	0	23.5428
86.6	0.0548	22.9642	0	22.9642
86.6333	0.0515	22.4251	0	22.4251
86.6667	0.0482	21.9517	0	21.9517
86.7	0.0423	21.4125	0.0006	21.4131
86.7333	0.0423	20.834	0	20.834
86.7667	0.0317	20.3211	0	20.3211
86.8	0.0297	19.7951	0	19.7951
86.8333	0.0274	19.256	0	19.256
86.8667	0.0212	18.7431	0	18.7431
86.9 86.9333	0.0218	18.204	0.0019	18.2059
86.9667	0.0166	17.7701	0	17.7701
87	0.012	17.2309 16.7049	0.0006	17.2315 16.7049
87.0333	0.009	16.2315	0	16.2315
87.0667	0.003	15.7582	0.0006	15.7588
87.1	0.0077	15.3242	0.0000	15.7388
87.1333	0.0031	14.8771	0	14.8771
87.1667	0.0037	14.4169	0	14.4169
87.2	-0.0002	13.9172	0	13.9172
87.2333	-0.0002	13.4175	0.0006	13.4181
87.2667	-0.0015	13.023	0.0000	13.023
87.3	-0.0061	12.5365	0	12.5365
87.3333	-0.0071	12.1551	0	12.1551
87.3667	-0.0071	11.708	0	11.708
87.4	-0.0097	11.3004	0.0006	11.301
04		11.0004	0.0000	_1.001



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
07.4222	0.0124	10.0522	0	10.0522
87.4333 87.4667	-0.0124 -0.013	10.8533 10.4325	0	10.8533 10.4325
87.4667	-0.013	10.4323	0	10.4323
87.5333	-0.0147	9.7093	0	9.7093
87.5667	-0.0147	9.3542	0	9.3542
87.6	-0.019	8.9466	0.0006	8.9472
87.6333	-0.0137	8.631	0.0008	8.631
87.6667	-0.0133	8.3154	0	8.3154
87.7	-0.0203	7.9341	0.0006	7.9347
87.7333	-0.02	7.579	0.0000	7.579
87.7667	-0.0203	7.3292	0.0006	7.3298
87.8	-0.0196	6.9741	0	6.9741
87.8333	-0.0219	6.7111	0	6.7111
87.8667	-0.0216	6.4087	0.0006	6.4093
87.9	-0.0242	6.1063	0.0006	6.1069
87.9333	-0.0239	5.8564	0	5.8564
87.9667	-0.0246	5.7118	0	5.7118
88	-0.0255	5.3962	0.0006	5.3968
88.0333	-0.0242	5.1989	0	5.1989
88.0667	-0.0226	4.9885	0.0006	4.9891
88.1	-0.0232	4.7124	0	4.7124
88.1333	-0.0226	4.4757	0.0006	4.4763
88.1667	-0.0236	4.3573	0	4.3573
88.2	-0.0223	4.1469	0.0006	4.1475
88.2333	-0.0239	3.9628	0.0006	3.9634
88.2667	-0.0252	3.8182	0.0006	3.8188
88.3	-0.0249	3.5815	0.0006	3.5821
88.3333	-0.0249	3.4237	0.0019	3.4256
88.3667	-0.0232	3.2659	0.0006	3.2665
88.4	-0.0242	3.1081	0.0006	3.1087
88.4333	-0.0265	3.0029	0	3.0029
88.4667	-0.0255	0	0.0006	0.0006
88.5	-0.0298	0.0048	0	0.0048
88.5333	-0.0101	0.0048	0.0019	0.0067
88.5667	-0.0104	0.0048	0	0.0048
88.6	-0.0101	0.0048	0.0006	0.0054
88.6333	-0.0134	0.0179	0.0006	0.0185
88.6667	-0.015	0	0	0
88.7	-0.0101	0	0.0006	0.0006
88.7333	-0.0246	0	0.0019	0.0019
88.7667	-0.0226	0.0179	0	0.0179
88.8	-0.0246	0.0311	0	0.0311
88.8333	-0.0232	0.0311	0	0.0311



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(1231)	(El IVI)	(2.10)	(LI IVI)
88.8667	-0.0242	0.0048	0	0.0048
88.9	-0.0252	0	0	0
88.9333	-0.0252	0	0	0
88.9667	-0.0216	0.0048	0	0.0048
89	-0.0226	0	0	0
89.0333	-0.0236	0	0.0006	0.0006
89.0667	-0.0236	0	0	0
89.1	-0.0213	0	0	0
89.1333	-0.0219	0.0048	0	0.0048
89.1667	-0.0367	0.0048	0.0006	0.0054
89.2	-0.0358	0	0	0
89.2333	-0.0384	0	0	0
89.2667	-0.0361	0.0048	0	0.0048
89.3	-0.0377	0	0.0006	0.0006
89.3333	-0.0348	0.0048	0.0006	0.0054
89.3667	-0.0114	0	0.0006	0.0006
89.4	-0.0114	0	0	0
89.4333	-0.0157	0	0	0
89.4667	-0.0173	0.0048	0	0.0048
89.5	-0.0209	0.0048	0.0006	0.0054
89.5333	-0.0213	0	0.0006	0.0006
89.5667	-0.0236	0	0	0
89.6	-0.0246	0.0048	0.0006	0.0054
89.6333	-0.0226	0.0048	0	0.0048
89.6667	-0.0236	0	0	0
89.7	-0.0269	0	0.0019	0.0019
89.7333	-0.0262	0	0	0
89.7667	-0.0252	0	0	0
89.8	-0.0262	0	0.0006	0.0006
89.8333	-0.0252	0.0048	0	0.0048
89.8667	-0.0269	0	0	0
89.9	-0.0269	0	0	0
89.9333	0.0452	0.0048	0	0.0048
89.9667	0.1226	0	0	0
90	0.1937	0	0	0
90.0333	0.2654	0.0048	0.0006	0.0054
90.0667	0.3408	0.0048	0	0.0048
90.1	0.4122	0	0	0
90.1333	0.4761	0	0.0006	0.0006
90.1667	0.533	9.157	0	9.157
90.2	0.585	10.6166	0	10.6166
90.2333	0.637	11.9447	0	11.9447
90.2667	0.6778	13.3386	0	13.3386



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
90.3	0.7166	14.5878	0.0006	14.5884
90.3333	0.7529	15.7845	0	15.7845
90.3667	0.7904	16.9416	0.0006	16.9422
90.4	0.8236	18.0988	0.0006	18.0994
90.4333	0.8569	19.1508	0.0006	19.1514
90.4667	0.8848	20.2948	0.0006	20.2954
90.5	0.9145	21.2547	0.0006	21.2553
90.5333	0.9444	22.2015	0	22.2015
90.5667	0.9688	23.1746	0	23.1746
90.6	0.9921	24.0162	0.0006	24.0168
90.6333	1.0162	24.9235	0.0006	24.9241
90.6667	1.0408	25.7519	0.0019	25.7539
90.7	1.0632	26.4883	0	26.4883
90.7333	1.0886	27.1984	0	27.1984
90.7667	1.1133	27.9743	0	27.9743
90.8	1.1373	28.6712	0	28.6712
90.8333	1.1534	29.3418	0.0006	29.3424
90.8667	1.1764	30.0914	0	30.0914
90.9	1.1932	30.8014	0	30.8014
90.9333	1.215	31.4852	0.0006	31.4858
90.9667	1.2258	32.1164	0.0006	32.117
91	1.2459	32.7739	0	32.7739
91.0333	1.264	33.4971	0	33.4971
91.0667	1.2765	34.1546	0	34.1546
91.1	1.2897	34.7201	0.0006	34.7207
91.1333	1.3028	35.4433	0	35.4433
91.1667	1.3157	35.9298	0.0006	35.9304
91.2	1.3338	36.6531	0.0006	36.6537
91.2333	1.3453	37.2711	0.0019	37.273
91.2667	1.3522	37.8497	0	37.8497
91.3	1.3687	38.3625	0.0006	38.3631
91.3333	1.3785	38.8754	0	38.8754
91.3667	1.3884	39.454	0.0006	39.4546
91.4	1.3996	40.0852	0.0019	40.0871
91.4333	1.4052	40.6111	0.0006	40.6117
91.4667	1.4167	40.953	0	40.953
91.5	1.4243	41.6368	0.0019	41.6387
91.5333	1.4381	42.268	0	42.268
91.5667	1.4447	42.7808	0	42.7808
91.6	1.4529	43.1885	0.0006	43.1891
91.6333	1.4582	43.8065	0	43.8065
91.6667	1.47	44.1353	0.0019	44.1372
91.7	1.4763	44.5561	0	44.5561



Project No. G100982213SAT-003

Time		Ch 2 High Flow		Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
91.7333	1.4802	45.0294	0.0006	45.03
91.7667	1.4862	45.516	0.0006	45.5166
91.8	1.497	46.0025	0.0006	46.0031
91.8333	1.5039	46.4759	0	46.4759
91.8667	1.5174	46.9362	0	46.9362
91.9	1.5293	47.4358	0	47.4358
91.9333	1.5398	47.8172	0.0006	47.8178
91.9667	1.5513	48.3958	0.0006	48.3964
92	1.5569	48.7245	0	48.7245
92.0333	1.5671	49.3163	0	49.3163
92.0667	1.5727	49.5267	0.0006	49.5273
92.1	1.5839	50.0526	0.0006	50.0532
92.1333	1.5902	50.4866	0	50.4866
92.1667	1.5981	50.8942	0	50.8942
92.2	1.605	51.3939	0	51.3939
92.2333	1.6116	51.7753	0	51.7753
92.2667	1.6175	52.2223	0.0006	52.2229
92.3	1.6228	52.4985	0.0006	52.4991
92.3333	1.6267	53.0113	0	53.0113
92.3667	1.6293	53.4584	0.0006	53.459
92.4	1.6376	53.8135	0	53.8135
92.4333	1.6392	54.2211	0	54.2211
92.4667	1.6409	54.5499	0.0019	54.5518
92.5	1.6507	54.9443	0	54.9443
92.5333	1.6544	55.5098	0.0006	55.5104
92.5667	1.6629	55.7859	0.0006	55.7865
92.6	1.6708	56.1015	0.0019	56.1034
92.6333	1.682	56.5223	0	56.5223
92.6667	1.6922	57.0614	0	57.0614
92.7	1.6958	57.2981	0.0019	57.3001
92.7333	1.7047	57.6137	0	57.6137
92.7667	1.7113	58.0214	0	58.0214
92.8	1.7189	58.6394	0.0006	58.64
92.8333	1.7245	58.8367	0.0006	58.8373
92.8667	1.7324	59.0602	0.0006	59.0608
92.9	1.7353 1.7426	59.389 59.7177	0.0006	59.3895
92.9333 92.9667			0.0006	59.7177
92.9667	1.7482	60.099		60.0996
93.0333	1.7524 1.757	60.3883 60.9406	0	60.3883 60.9406
93.0667	1.7613	61.1247	0	61.1247
93.0667	1.7613	61.1247	0.0019	61.4028
93.1333	1.7712	61.7822	0.0019	61.7841
30.1333	1.,,12	01.7022	0.0015	01.7041



Project No. G100982213SAT-003

Time (min)	Ch 1 dP	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow
(,	(100.1)	(2.111)	(2.11)	(=:,
93.1667	1.7758	62.2161	0.0006	62.2167
93.2	1.7807	62.4002	0	62.4002
93.2333	1.783	62.992	0.0006	62.9926
93.2667	1.786	63.255	0	63.255
93.3	1.7916	63.3733	0	63.3733
93.3333	1.7939	63.6495	0	63.6495
93.3667	1.7995	63.9256	0.0006	63.9262
93.4	1.8018	64.3727	0	64.3727
93.4333	1.8094	64.7146	0	64.7146
93.4667	1.8127	64.925	0.0006	64.9256
93.5	1.815	65.188	0	65.188
93.5333	1.8202	65.6482	0	65.6482
93.5667	1.8232	65.806	0	65.806
93.6	1.8294	66.2268	0.0006	66.2274
93.6333	1.8324	66.4898	0	66.4898
93.6667	1.8314	66.7922	0.0006	66.7928
93.7	1.8344	67.0684	0.0006	67.069
93.7333	1.8344	67.4234	0	67.4234
93.7667	1.8403	67.7653	0	67.7653
93.8	1.841	68.0283	0	68.0283
93.8333	1.8449	68.3308	0	68.3308
93.8667	1.8426	68.7253	0.0006	68.7259
93.9	1.8472	68.791	0	68.791
93.9333	1.8482	69.1198	0.0006	69.1203
93.9667	1.8508	69.409	0.0006	69.4096
94	1.8515	69.5537	0	69.5537
94.0333	1.8548	69.7509	0.0019	69.7529
94.0667	1.8548	70.0402	0	70.0402
94.1	1.8548	70.3032	0.0006	70.3038
94.1333	1.862	70.632	0.0006	70.6326
94.1667	1.863	70.8161	0	70.8161
94.2	1.8676	71.1711	0	71.1711
94.2333	1.8706	71.4078	0	71.4078
94.2667	1.8752 1.8755	71.6839	0.0006	71.6839 71.8029
94.3 94.3333	1.8785	71.8023 71.9864	0.0006	71.8029
94.3333	1.8841	72.2625	0.0006	72.2631
94.3667	1.8857	72.5124	0.0008	72.5124
94.4333	1.8884	72.7754	0.0019	72.7773
94.4667	1.892	73.2093	0.0019	73.2099
94.4667	1.8913	73.183	0.0006	73.1836
94.5333	1.8933	73.4986	0.0006	73.4992
94.5555	1.8979	73.6827	0.0008	73.6827
34.3007	1.05/5	73.0027	U	73.0627



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(1)	(El IVI)	(Li ivi)	(LI IVI)
94.6	1.8969	73.972	0	73.972
94.6333	1.9005	74.2218	0	74.2218
94.6667	1.9028	74.3665	0.0006	74.3671
94.7	1.9048	74.5769	0	74.5769
94.7333	1.9042	74.7873	0.0006	74.7879
94.7667	1.9081	74.9845	0	74.9845
94.8	1.9055	75.3264	0	75.3264
94.8333	1.9117	75.3659	0	75.3659
94.8667	1.9206	75.642	0	75.642
94.9	1.9252	75.7998	0	75.7998
94.9333	1.9305	76.076	0.0006	76.0766
94.9667	1.9407	76.5099	0.0006	76.5105
95	1.9453	76.5099	0	76.5099
95.0333	1.946	76.7334	0	76.7334
95.0667	1.9558	76.9438	0	76.9438
95.1	1.9588	77.0227	0.0006	77.0233
95.1333	1.9604	77.4041	0	77.4041
95.1667	1.9654	77.6013	0	77.6013
95.2	1.9683	77.7065	0.0006	77.7071
95.2333	1.971	78.2062	0	78.2062
95.2667	1.9759	78.2194	0	78.2194
95.3	1.9792	78.2851	0.0006	78.2857
95.3333	1.9815	78.6533	0	78.6533
95.3667	1.9871	79.0215	0	79.0215
95.4	1.9868	79.1924	0	79.1924
95.4333	1.9914	79.3371	0	79.3371
95.4667	1.995	79.3765	0	79.3765
95.5	1.9927	79.5212	0	79.5212
95.5333	1.9953	79.9551	0	79.9551
95.5667 95.6	1.9993 1.9976	80.0209 80.3628	0	80.0209 80.3628
95.6333	2.0036	80.3628	0.0019	80.3628
95.6667	2.0036	80.5337	0.0019	80.5343
95.7	2.0042	80.731	0.0008	80.731
95.7333	2.0049	80.994	0	80.731
95.7667	2.0072	81.1649	0.0006	81.1655
95.8	2.00111	81.3621	0.0008	81.3621
95.8333	2.0101	81.5725	0.0006	81.5731
95.8667	2.0101	81.7698	0.0008	81.7698
95.9	2.0144	82.0722	0	82.0722
95.9333	2.0157	82.2037	0	82.2037
95.9667	2.0137	82.1511	0	82.1511
96	2.018	82.3352	0	82.3352
20	/	32.3332	U	02.0002



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,,		(=====,		
96.0333	2.0217	82.401	0	82.401
96.0667	2.0273	82.664	0.0006	82.6646
96.1	2.0269	83.019	0.0006	83.0196
96.1333	2.0286	83.3083	0.0006	83.3089
96.1667	2.0325	82.9927	0	82.9927
96.2	2.0345	83.2426	0	83.2426
96.2333	2.0358	83.3741	0.0006	83.3747
96.2667	2.0345	83.5056	0	83.5056
96.3	2.0388	83.7291	0.0006	83.7297
96.3333	2.0378	83.9263	0.0019	83.9283
96.3667	2.0375	84.0447	0	84.0447
96.4	2.0391	84.2551	0.0006	84.2557
96.4333	2.0391	84.597	0.0006	84.5976
96.4667	2.0381	84.4523	0.0006	84.4529
96.5	2.0391	84.5444	0	84.5444
96.5333	2.0398	84.7416	0	84.7416
96.5667	2.0371	84.8863	0	84.8863
96.6	2.0388	85.1361	0.0006	85.1367
96.6333	2.0368	85.2808	0	85.2808
96.6667	2.0365	85.3597	0	85.3597
96.7	2.0338	85.5175	0	85.5175
96.7333	2.0322	85.7016	0.0006	85.7022
96.7667	2.0332	85.9514	0	85.9514
96.8	2.0299	86.0566	0.0006	86.0572
96.8333	2.0338	86.1881	0	86.1881
96.8667	2.0338	86.175	0.0006	86.1755
96.9 96.9333	2.0322	86.4379	0	86.4379
96.9667	2.0312	86.3853 86.5431	0.0006	86.3853 86.5437
96.9667	2.0329	86.7667	0.0008	86.7686
97.0333	2.0296	86.9376	0.0019	86.9382
97.0667	2.0292	86.9902	0.0032	86.9935
97.1	2.0232	87.0428	0.0006	87.0434
97.1333	2.0299	87.2269	0.0000	87.2269
97.1667	2.0306	87.6083	0.0006	87.6089
97.2	2.0273	87.4899	0.0006	87.4905
97.2333	2.0279	87.4899	0.0019	87.4918
97.2667	2.0273	87.6083	0.0006	87.6089
97.3	2.0273	87.8844	0.0006	87.885
97.3333	2.0266	87.8581	0	87.8581
97.3667	2.0259	87.8844	0	87.8844
97.4	2.0253	88.0817	0.0006	88.0823
97.4333	2.0282	88.3315	0	88.3315



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow		Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
97.4667	2.0269	88.4236	0.0006	88.4242
97.5	2.0256	88.4367	0	88.4367
97.5333	2.024	88.5419	0.0006	88.5425
97.5667	2.0256	88.634	0.0006	88.6345
97.6	2.0246	88.7128	0	88.7128
97.6333	2.022	88.7128	0.0006	88.7134
97.6667	2.0266	88.8575	0	88.8575
97.7	2.0246	89.0416	0.0006	89.0422
97.7333	2.0266	89.1073	0	89.1073
97.7667	2.021	89.3177	0	89.3177
97.8	2.0233	89.3966	0	89.3966
97.8333	2.0227	89.3309	0	89.3309
97.8667	2.0227	89.6465	0.0006	89.6471
97.9	2.0227	89.5544	0.0019	89.5563
97.9333	2.023	89.7911	0	89.7911
97.9667	2.0223	89.7122	0.0006	89.7128
98	2.0217	90.041	0.0006	90.0416
98.0333	2.0203	89.9095	0.0006	89.9101
98.0667	2.0227	90.0541	0.0006	90.0547
98.1	2.023	90.133	0	90.133
98.1333	2.02	90.3566	0	90.3566
98.1667	2.018	90.3829	0.0006	90.3835
98.2	2.0154	90.304	0.0006	90.3046
98.2333	2.018	90.5407	0	90.5407
98.2667	2.022	90.6196	0	90.6196
98.3	2.021	90.5407	0	90.5407
98.3333	2.019	90.7511	0.0006	90.7517
98.3667	2.0174	90.8168	0	90.8168
98.4	2.02	90.8826	0.0006	90.8832
98.4333	2.02	91.0798	0	91.0798
98.4667	2.0177	91.0272	0	91.0272
98.5	2.0154	91.185	0	91.185
98.5333	2.0171	91.3559	0.0006	91.3565
98.5667	2.0164	91.3296	0	91.3296
98.6	2.0174	91.4348	0	91.4348
98.6333	2.0184	91.5532	0.0006	91.5538
98.6667	2.0157	91.6715	0.0006	91.6721
98.7	2.0154	91.5795	0.0006	91.5801
98.7333	2.019	91.7241	0.0006	91.7247
98.7667	2.0157	91.8162	0	91.8162
98.8	2.0177	91.8162	0.0006	91.8168
98.8333	2.0174	91.8556	0	91.8556
98.8667	2.0151	91.9608	0	91.9608



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
, ,	(100.7)	(=,	(=)	1
98.9	2.0157	91.9608	0.0006	91.9614
98.9333	2.0128	92.2238	0.0006	92.2244
98.9667	2.0151	92.3027	0	92.3027
99	2.0148	92.3553	0	92.3553
99.0333	2.0115	92.4342	0	92.4342
99.0667	2.0144	92.5131	0	92.5131
99.1	2.0134	92.3816	0.0006	92.3822
99.1333	2.0157	92.7104	0	92.7104
99.1667	2.0095	92.6052	0	92.6052
99.2	2.0121	92.7498	0	92.7498
99.2333	2.0131	92.8287	0	92.8287
99.2667	2.0101	92.8945	0.0006	92.8951
99.3	2.0128	92.8682	0.0019	92.8701
99.3333	2.0121	92.8682	0.0019	92.8701
99.3667	2.0111	92.8156	0	92.8156
99.4	2.0098	92.8813	0	92.8813
99.4333	2.0092	93.2232	0.0006	93.2238
99.4667	2.0075	93.2495	0	93.2495
99.5	2.0111	93.3679	0.0006	93.3685
99.5333	2.0088	93.381	0	93.381
99.5667	2.0111	93.6046	0	93.6046
99.6	2.0115	93.4599	0	93.4599
99.6333	2.0121	93.3021	0.0006	93.3027
99.6667	2.0164	93.6046	0	93.6046
99.7	2.0151	93.6308	0.0006	93.6314
99.7333	2.0144	93.7492	0	93.7492
99.7667	2.0184	93.736	0	93.736
99.8	2.018	93.7492	0	93.7492
99.8333	2.0213	93.7492	0	93.7492
99.8667	2.0207	93.8544	0	93.8544
99.9	2.0213	93.9859	0.0006	93.9865
99.9333 99.9667	2.0227	94.0253	0.0006	94.0259
100	2.021	94.0122	0.0006	94.0128
	2.0233	94.0516 94.262	0	94.0516 94.262
100.0333	2.024	94.262	0	94.262
100.0667	2.0223	94.2489	0	94.2489
100.1	2.0239	94.4067	0	94.4067
100.1555	2.0227	94.4067	0	94.4067
100.1667	2.0282	94.4067	0	94.4067
100.2	2.0243	94.4198	0	94.4198
100.2333	2.0243	94.4198	0.0006	94.4198
100.2667	2.024	94.6565	0.0006	94.6571
100.3	2.0239	54.0303	0.0006	54.05/1



Project No. G100982213SAT-003

Time	Ch 1 dP			Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
100.3333	2.0263	94.7091	0.0006	94.7097
100.3667	2.0269	94.696	0.0006	94.6966
100.4	2.025	94.8275	0	94.8275
100.4333	2.0289	94.8801	0	94.8801
100.4667	2.0276	94.9327	0.0006	94.9333
100.5	2.0263	95.0905	0.0019	95.0924
100.5333	2.0309	94.8143	0.0019	94.8162
100.5667	2.0286	95.0642	0	95.0642
100.6	2.0286	95.051	0.0006	95.0516
100.6333	2.0266	95.1036	0.0006	95.1042
100.6667	2.0299	95.1825	0.0019	95.1844
100.7	2.0246	95.1299	0.0006	95.1305
100.7333	2.0282	95.1431	0	95.1431
100.7667	2.0286	95.3403	0.0006	95.3409
100.8	2.0259	95.1562	0	95.1562
100.8333	2.0273	95.2746	0	95.2746
100.8667	2.023	95.5376	0.0006	95.5382
100.9	2.0236	95.4192	0	95.4192
100.9333	2.0292	95.5376	0	95.5376
100.9667	2.0256	95.4981	0	95.4981
101	2.0256	95.5639	0.0006	95.5645
101.0333	2.0236	95.7743	0.0006	95.7749
101.0667	2.0253	95.6954	0	95.6954
101.1	2.0233	95.9189	0	95.9189
101.1333	2.023	95.7348	0	95.7348
101.1667	2.0203	95.7217	0.0006	95.7223
101.2	2.0203	95.8006	0	95.8006
101.2333	2.0171	95.9584	0.0019	95.9603
101.2667	1.9907	96.1293	0	96.1293
101.3	1.9588	95.8795	0.0019	95.8814
101.3333	1.9045	95.9189	0	95.9189
101.3667	1.8054	95.9584	0	95.9584
101.4	1.6455	95.8795	0	95.8795
101.4333	1.4957	95.7348	0.0006	95.7354
101.4667	1.3591	95.3009	0	95.3009
101.5	1.2347	94.9853	0.0006	94.9859
101.5333 101.5667	1.1215	94.4593	0.0006	94.4593
	1.0168	93.9727		93.9733
101.6 101.6333	0.9289	93.4468 92.8813	0	93.4468 92.8813
101.6333	0.8473	92.2764	0	92.8813
101.6667	0.7696	91.7636	0	91.7636
101.7333	0.6429	91.0272	0.0019	91.0291



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(IIIIII)	(psi)	(LPIVI)	(LPIVI)	(LPIVI)
101.7667	0.5932	90.1593	0.0006	90.1599
101.8	0.5429	89.7648	0.0006	89.7654
101.8333	0.4978	89.0679	0.0006	89.0685
101.8667	0.4586	88.1737	0	88.1737
101.9	0.4234	87.5031	0.0006	87.5037
101.9333	0.3941	86.7404	0	86.7404
101.9667	0.3618	85.9383	0	85.9383
102	0.3375	85.2676	0.0006	85.2682
102.0333	0.3108	84.4129	0.0006	84.4135
102.0667	0.2914	83.4924	0	83.4924
102.1	0.2677	82.8086	0	82.8086
102.1333	0.2536	82.0196	0.0006	82.0202
102.1667	0.2364	81.0203	0	81.0203
102.2	0.2193	80.3102	0	80.3102
102.2333	0.2045	79.5606	0.0006	79.5612
102.2667	0.194	78.3903	0	78.3903
102.3	0.1808	77.6408	0	77.6408
102.3333	0.1723	76.8912	0.0006	76.8918
102.3667	0.1604	76.1812	0.0006	76.1818
102.4	0.1522	75.116	0	75.116
102.4333	0.1413	74.5637	0.0006	74.5643
102.4667	0.1361	73.446	0.0006	73.4466
102.5	0.1239	72.7228	0.0006	72.7234
102.5333	0.1193	71.7628	0	71.7628
102.5667	0.1078	70.9213	0.0006	70.9219
102.6	0.1054	70.0665	0	70.0665
102.6333	0.0975	69.317	0	69.317
102.6667	0.087	68.4491	0.0006	68.4497
102.7	0.0827	67.6601	0.0019	67.662
102.7333	0.0762	66.8317	0	66.8317
102.7667	0.0696	65.8586	0.0006	65.8592
102.8	0.064	65.0828	0	65.0828
102.8333	0.0564	64.2675	0	64.2675
102.8667	0.0511	63.4391	0.0006	63.4397
102.9	0.0429	62.9262	0.0006	62.9268
102.9333	0.0367	61.8742	0.0006	61.8748
102.9667	0.0334	61.3351	0	61.3351
103	0.0281	60.4146	0.0006	60.4152
103.0333	0.0222	59.8492	0	59.8492
103.0667	0.0209	58.7315	0 0006	58.7315
103.1	0.0123	57.8899	0.0006	57.8905
103.1333	0.011	57.2061	0.0006	57.2067
103.1667	0.007	56.3251	0.0019	56.327



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow		Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
103.2	0.0008	55.6939	0	55.6939
103.2333	-0.0028	55.1547	0.0006	55.1553
103.2667	-0.0042	54.1422	0.0006	54.1428
103.3	-0.0078	53.4453	0	53.4453
103.3333	-0.0107	52.5642	0.0006	52.5648
103.3667	-0.014	51.8805	0	51.8805
103.4	-0.0186	50.8548	0.0019	50.8567
103.4333	-0.0173	50.2499	0.0006	50.2505
103.4667	-0.0223	49.645	0	49.645
103.5	-0.02	48.8297	0.0019	48.8316
103.5333	-0.0249	48.0933	0	48.0933
103.5667	-0.0252	47.1992	0	47.1992
103.6	-0.0288	46.5811	0.0006	46.5817
103.6333	-0.0282	45.8184	0	45.8184
103.6667	-0.0305	45.0031	0	45.0031
103.7	-0.0288	44.0958	0	44.0958
103.7333	-0.0328	43.5304	0.0006	43.531
103.7667	-0.0341	42.7151	0	42.7151
103.8	-0.0302	41.9393	0.0006	41.9399
103.8333	-0.0321	41.0845	0	41.0845
103.8667	-0.0325	40.4533	0.0006	40.4539
103.9	-0.0361	39.7564	0.0019	39.7583
103.9333	-0.0387	38.8754	0	38.8754
103.9667	-0.0364	38.2705	0	38.2705
104	-0.0361	37.6788	0.0006	37.6793
104.0333	-0.0371	36.9161	0.0006	36.9167
104.0667	-0.0374	36.2191	0.0006	36.2197
104.1	-0.0367	35.4564	0	35.4564
104.1333	-0.039	34.8384	0	34.8384
104.1667	-0.039	34.0889	0	34.0889
104.2	-0.0404	33.4051	0.0006	33.4057
104.2333	-0.0397	32.7345	0.0006	32.7351
104.2667	-0.0413	32.077	0.0006	32.0776
104.3	-0.0413	31.3669	0.0006	31.3675
104.3333	-0.0413	30.7357	0	30.7357
104.3667 104.4	-0.0427 -0.0407	29.973 29.3944	0	29.973 29.3944
104.4333 104.4667	-0.039 -0.042	28.8027 28.1452	0.0019 0.0006	28.8046 28.1458
104.4667	-0.042	28.1452	0.0006	27.5009
104.5	-0.0404	26.8697	0	26.8697
104.5555	-0.039	26.2779	0	26.2779
104.3667	-0.033	25.6336	0	25.6336
104.0	0.04	25.0550	U	25.0550



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow		Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
104.6333	-0.0384	25.0419	0	25.0419
104.6667	-0.0384	24.4107	0.0006	24.4113
104.0007	-0.0404	23.74	0.0008	23.74
104.7333	-0.042	23.1746	0	23.1746
104.7667	-0.0394	22.596	0	22.596
104.8	-0.0397	21.9517	0	21.9517
104.8333	-0.0387	21.452	0.0006	21.4526
104.8667	-0.0394	20.834	0	20.834
104.9	-0.0387	20.2159	0.0019	20.2178
104.9333	-0.0381	19.6768	0.0006	19.6774
104.9667	-0.039	19.1245	0	19.1245
105	-0.0374	18.4933	0	18.4933
105.0333	-0.0407	17.9673	0	17.9673
105.0667	-0.0397	17.4808	0.0019	17.4827
105.1	-0.0374	16.9022	0	16.9022
105.1333	-0.0367	16.363	0	16.363
105.1667	-0.0358	15.9028	0.0006	15.9034
105.2	-0.039	15.4294	0	15.4294
105.2333	-0.0367	14.9166	0	14.9166
105.2667	-0.0407	14.43	0.0006	14.4306
105.3	-0.0371	13.9698	0.0006	13.9704
105.3333	-0.0397	13.3912	0	13.3912
105.3667	-0.0387	13.0099	0.0006	13.0105
105.4	-0.0361	12.5102	0	12.5102
105.4333	-0.0377	12.0368	0.0006	12.0374
105.4667	-0.0384	11.6423	0.0006	11.6429
105.5	-0.0364	11.1689	0	11.1689
105.5333	-0.0348	10.7744	0.0006	10.775
105.5667	-0.0341	10.3668	0	10.3668
105.6	-0.0374	10.0249	0	10.0249
105.6333	-0.0331	9.6041	0.0006	9.6047
105.6667	-0.0328	9.2359	0	9.2359
105.7	-0.0328	8.9071	0	8.9071
105.7333	-0.0331	8.539	0	8.539
105.7667	-0.0331	8.1839	0	8.1839
105.8 105.8333	-0.0321 -0.0374	7.8289 7.5264	0	7.8289 7.5264
105.8333	-0.0374	7.2503	0.0006	7.2509
105.8667	-0.0334	7.0004	0.0008	7.2309
105.9	-0.0321	6.7506	0	6.7506
105.9667	-0.0308	6.343	0	6.343
105.9667	-0.0321	6.1983	0.0006	6.1989
106.0333	-0.0311	5.909	0.0006	5.9096



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
106.0667	-0.0328	5.6329	0.0006	5.6335
106.1	-0.0338	5.3699	0.0006	5.3705
106.1333	-0.0288	5.1595	0	5.1595
106.1667	-0.0288	5.0148	0	5.0148
106.2	-0.0311	4.7518	0.0006	4.7524
106.2333	-0.0315	4.5546	0	4.5546
106.2667	-0.0338	4.4231	0.0006	4.4237
106.3	-0.0285	4.2258	0	4.2258
106.3333	-0.0285	4.0549	0	4.0549
106.3667	-0.0279	3.8708	0	3.8708
106.4	-0.0292	3.7262	0.0019	3.7281
106.4333	-0.0298	3.5684	0	3.5684
106.4667	-0.0272	3.45	0	3.45
106.5	-0.0292	3.2528	0.0019	3.2547
106.5333	-0.0269	3.1739	0	3.1739
106.5667	-0.0315	3.0029	0	3.0029
106.6	-0.0272	0	0.0006	0.0006
106.6333	-0.0275	0	0	0
106.6667	-0.0285	0	0	0
106.7	-0.0269	0	0	0
106.7333	-0.0279	0.0048	0.0006	0.0054
106.7667	-0.0292	0	0.0006	0.0006
106.8	-0.0255	0	0	0
106.8333	-0.0272	0	0	0
106.8667	-0.0246	0	0.0006	0.0006
106.9	-0.0252	0.0048	0.0006	0.0054
106.9333	-0.0249	0	0.0006	0.0006
106.9667	-0.0265	0.0048	0.0006	0.0054
107	-0.0288	0	0.0006	0.0006
107.0333	-0.0285	0	0.0006	0.0006
107.0667	-0.0255	0	0	0
107.1	-0.0275	0	0.0006	0.0006
107.1333	-0.0255	0	0.0019	0.0019
107.1667	-0.0255	0.0048	0.0006	0.0054
107.2	-0.0334	0	0.0019	0.0019
107.2333	-0.0305	0.0048	0	0.0048
107.2667	-0.0308	0.0048	0	0.0048
107.3	-0.0321	0.0048	0	0.0048
107.3333	-0.0288	0	0.0006	0.0006
107.3667	-0.0262	0	0	0
107.4	-0.016	0.0048	0.0006	0.0054
107.4333	-0.0213	0.0048	0	0.0048
107.4667	-0.0219	0.0048	0	0.0048



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
107.5	-0.0259	0	0.0006	0.0006
107.5333	-0.0074	0.0048	0.0006	0.0054
107.5667	-0.0101	0	0.0006	0.0006
107.6	-0.0111	0	0	0
107.6333	-0.0124	0.0048	0	0.0048
107.6667	-0.0147	0.0048	0	0.0048
107.7	-0.014	0.0179	0	0.0179
107.7333	-0.017	0	0.0006	0.0006
107.7667	-0.014	0	0	0
107.8	-0.0157	0	0	0
107.8333	-0.015	0.0048	0	0.0048
107.8667	-0.0348	0	0	0
107.9	-0.0295	0	0.0006	0.0006
107.9333	-0.0315	0.0048	0.0006	0.0054
107.9667	-0.0371	0.0179	0	0.0179
108	-0.0311	0.0048	0	0.0048
108.0333	-0.0331	0	0	0
108.0667	-0.0338	0	0.0006	0.0006
108.1	-0.0328	0	0	0
108.1333	-0.0341	0	0	0
108.1667	-0.0285	0.0179	0	0.0179
108.2	-0.0265	0.0048	0.0006	0.0054
108.2333	-0.0305	0	0.0006	0.0006
108.2667	-0.0282	0.0048	0.0006	0.0054
108.3	-0.0282	0.0048	0.0006	0.0054
108.3333	-0.0295	0.0048	0	0.0048
108.3667	-0.0236	0.0048	0	0.0048
108.4	-0.0255	0	0	0
108.4333	-0.0242	0	0	0
108.4667	-0.0249	0	0	0
108.5	-0.0239	0	0	0
108.5333	-0.0236	0.0048	0.0006	0.0054
108.5667	-0.0265	0	0	0
108.6	-0.0236	0.0048	0	0.0048
108.6333	-0.0226	0	0.0006	0.0006
108.6667	-0.0216	0	0	0
108.7	-0.0196	0.0048	0	0.0048
108.7333	-0.0216	0	0	0
108.7667	-0.0209	0	0.0006	0.0006
108.8	-0.0186	0.0048	0	0.0048
108.8333	0.0413	0.0048	0	0.0048
108.8667	0.115	0.0048	0	0.0048
108.9	0.1818	0	0	0



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,				
108.9333	0.2414	0	0	0
108.9667	0.3023	0	0.0006	0.0006
109	0.3536	0	0	0
109.0333	0.4063	0	0.0006	0.0006
109.0667	0.4547	0	0.0006	0.0006
109.1	0.4991	8.4469	0.0006	8.4475
109.1333	0.5439	9.0518	0	9.0518
109.1667	0.584	9.5646	0.0006	9.5652
109.2	0.6251	9.9723	0	9.9723
109.2333	0.6623	10.4457	0	10.4457
109.2667	0.7005	12.3918	0	12.3918
109.3	0.7341	13.023	0.0019	13.0249
109.3333	0.768	13.6936	0.0006	13.6942
109.3667	0.8006	14.3117	0	14.3117
109.4	0.8341	14.8771	0	14.8771
109.4333	0.8644	15.5478	0.0006	15.5484
109.4667	0.8931	16.1526	0	16.1526
109.5	0.9174	16.7049	0	16.7049
109.5333	0.9474	17.2704	0	17.2704
109.5667	0.9757	17.7964	0.0019	17.7983
109.6	1.0043	18.3355	0	18.3355
109.6333	1.027	18.822	0	18.822
109.6667	1.056	19.3217	0	19.3217
109.7	1.0774	19.8872	0	19.8872
109.7333	1.1027	20.3869	0	20.3869
109.7667	1.1251	20.7945	0.0006	20.7951
109.8	1.1472	21.3205	0	21.3205
109.8333	1.1705	21.715	0.0006	21.7156
109.8667	1.1936	22.2147	0	22.2147
109.9	1.2179	22.6092	0	22.6092
109.9333	1.2357	23.0431	0.0006	23.0437
109.9667	1.2531	23.4376	0	23.4376
110	1.2752	23.8452	0.0019	23.8472
110.0333	1.2939	24.2529	0	24.2529
110.0667	1.3153	24.6342	0	24.6342
110.1	1.3321	25.0813	0.0006	25.0819
110.1333	1.3483	25.4495	0	25.4495
110.1667	1.3667	25.844	0	25.844
110.2	1.3828	26.2516	0	26.2516
110.2333	1.4006	26.6724	0	26.6724
110.2667	1.419	27.0012	0.0006	27.0018
110.3	1.4384	27.3299	0.0006	27.3305
110.3333	1.4559	27.7507	0	27.7507



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(1231)	(Li ivi)	(2.10)	(Li ivi)
110.3667	1.472	28.0926	0.0006	28.0932
110.4	1.4921	28.4213	0.0006	28.4219
110.4333	1.5148	28.7895	0	28.7895
110.4667	1.5349	29.1051	0.0006	29.1057
110.5	1.5556	29.4733	0.0019	29.4752
110.5333	1.5813	29.8678	0.0019	29.8697
110.5667	1.5994	30.2097	0.0006	30.2103
110.6	1.6201	30.5647	0	30.5647
110.6333	1.6409	30.9066	0	30.9066
110.6667	1.6606	31.2617	0	31.2617
110.7	1.6744	31.6167	0.0006	31.6173
110.7333	1.6922	31.9586	0	31.9586
110.7667	1.7083	32.3137	0.0019	32.3156
110.8	1.7258	32.7082	0	32.7082
110.8333	1.7442	32.9711	0	32.9711
110.8667	1.759	33.3656	0	33.3656
110.9	1.7742	33.7338	0	33.7338
110.9333	1.7926	33.9968	0	33.9968
110.9667	1.8081	34.3124	0.0006	34.313
111	1.8202	34.6412	0.0006	34.6418
111.0333	1.8347	34.9436	0	34.9436
111.0667	1.8489	35.1935	0	35.1935
111.1	1.862	35.5485	0	35.5485
111.1333	1.8742	35.8378	0.0006	35.8384
111.1667	1.8884	36.2323	0	36.2323
111.2	1.9005	36.4427	0	36.4427
111.2333	1.916	36.7057	0.0006	36.7063
111.2667	1.9256	36.9687	0.0006	36.9693
111.3	1.94	37.3763	0	37.3763
111.3333	1.9506	37.5867	0	37.5867
111.3667	1.9595	37.9943	0	37.9943
111.4	1.9716	38.3099	0	38.3099
111.4333	1.9805	38.5729	0	38.5729
111.4667	1.9911	38.8228	0	38.8228
111.5	2.0006	39.0989	0	39.0989
111.5333	2.0148	39.3751	0.0006	39.3757
111.5667	2.018	39.6644	0.0006	39.665
111.6	2.0329	39.9405	0.0006	39.9411
111.6333	2.0358	40.0983	0	40.0983
111.6667	2.0355	40.4402	0	40.4402
111.7	2.0361	40.6506	0	40.6506
111.7333	2.0345	40.8741	0	40.8741
111.7667	2.0338	41.2292	0.0006	41.2298



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(111111)	(psi)	(LFIVI)	(LFIVI)	(LFIVI)
111.8	2.0368	41.5185	0	41.5185
111.8333	2.0375	41.7026	0	41.7026
111.8667	2.0355	41.9393	0	41.9393
111.9	2.0345	42.1234	0	42.1234
111.9333	2.0388	42.268	0	42.268
111.9667	2.0381	42.4653	0	42.4653
112	2.0408	42.6756	0.0006	42.6762
112.0333	2.0437	42.8992	0	42.8992
112.0667	2.0427	43.2805	0	43.2805
112.1	2.0361	43.3726	0.0006	43.3732
112.1333	2.0312	43.4778	0.0019	43.4797
112.1667	2.0276	43.6619	0	43.6619
112.2	2.0233	43.846	0.0006	43.8466
112.2333	2.0259	44.0564	0	44.0564
112.2667	2.0259	44.1221	0	44.1221
112.3	2.0246	44.3983	0.0006	44.3989
112.3333	2.02	44.4114	0.0006	44.412
112.3667	2.024	44.7007	0	44.7007
112.4	2.0246	44.7928	0	44.7928
112.4333	2.0217	44.99	0.0019	44.9919
112.4667	2.0227	45.1609	0	45.1609
112.5	2.021	45.3056	0	45.3056
112.5333	2.0243	45.4108	0.0006	45.4114
112.5667	2.0203	45.5949	0.0006	45.5955
112.6	2.023	45.7132	0.0006	45.7138
112.6333 112.6667	2.0227	45.8053	0.0006	45.8053 46.0952
112.6667	2.0246	46.0946 46.0157	0.0006	46.0952
112.7333	2.0227	46.2129	0.0006	46.2135
112.7667	2.023	46.2129	0.0006	46.3187
112.7667	2.0217	46.4496	0.0008	46.4496
112.8333	2.021	46.5943	0.0006	46.5949
112.8667	2.021	46.7126	0.0000	46.7126
112.9	2.0207	46.8047	0	46.8047
112.9333	2.0243	47.0019	0	47.0019
112.9667	2.0243	47.1466	0	47.1466
113	2.0246	47.3307	0	47.3307
113.0333	2.0246	47.2518	0.0006	47.2523
113.0667	2.0246	47.3964	0.0000	47.3964
113.1	2.0282	47.5279	0	47.5279
113.1333	2.0253	47.6068	0.0006	47.6074
113.1667	2.0286	47.804	0.0000	47.804
113.2	2.0276	47.8961	0	47.8961
			-	



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
()	(1231)	(Li ivi)	(2.10)	(11111)
113.2333	2.0263	47.9355	0.0006	47.9361
113.2667	2.0282	48.1591	0.0006	48.1597
113.3	2.0253	48.1854	0.0006	48.186
113.3333	2.0309	48.2117	0.0006	48.2123
113.3667	2.0309	48.4878	0.0019	48.4897
113.4	2.0263	48.5404	0	48.5404
113.4333	2.0282	48.5536	0.0019	48.5555
113.4667	2.0306	48.7114	0	48.7114
113.5	2.0306	48.764	0.0006	48.7646
113.5333	2.0335	49.0007	0.0006	49.0013
113.5667	2.0296	48.8823	0	48.8823
113.6	2.0282	49.0007	0	49.0007
113.6333	2.0315	49.027	0.0006	49.0276
113.6667	2.0309	49.3163	0	49.3163
113.7	2.0312	49.2505	0	49.2505
113.7333	2.0338	49.4872	0	49.4872
113.7667	2.0338	49.4609	0.0006	49.4615
113.8	2.0352	49.4872	0	49.4872
113.8333	2.0309	49.645	0	49.645
113.8667	2.0332	49.6976	0.0006	49.6982
113.9	2.0338	49.9343	0.0006	49.9349
113.9333	2.0348	49.8685	0	49.8685
113.9667	2.0345	49.9343	0.0019	49.9362
114	2.0358	50.0526	0	50.0526
114.0333	2.0368	50.1184	0	50.1184
114.0667	2.0335	50.1578	0	50.1578
114.1	2.0338	50.1447	0.0019	50.1466
114.1333	2.0352	50.3682	0	50.3682
114.1667	2.0391	50.263	0	50.263
114.2	2.0381	50.3945	0.0006	50.3951
114.2333	2.0365	50.4734	0.0006	50.474
114.2667 114.3	2.0368	50.526	0.0006	50.526
	2.0361	50.6575 50.7496		50.6581 50.7496
114.3333 114.3667	2.0381 2.0375	50.7496	0	50.7496
114.3667	2.0375	50.7496	0	50.7496
114.4	2.0391	50.8548	0	50.8548
114.4667		51.0126	0	
114.4667	2.0371 2.0394	50.9468	0	51.0126 50.9468
114.5	2.0394	50.9468	0	50.9468
114.5667	2.0378	51.0652	0.0006	51.0658
114.5667	2.0352	51.052	0.0008	51.053
114.6333	2.0352	51.052	0	51.052
114.0333	2.0301	31.1441	U	31.1441



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,		,		
114.6667	2.0384	51.2098	0	51.2098
114.7	2.0378	51.2361	0	51.2361
114.7333	2.0375	51.3939	0.0019	51.3958
114.7667	2.0371	51.3545	0	51.3545
114.8	2.0368	51.3676	0.0006	51.3682
114.8333	2.0365	51.4465	0.0019	51.4484
114.8667	2.0335	51.5517	0.0006	51.5523
114.9	2.0315	51.5254	0	51.5254
114.9333	2.0342	51.5517	0	51.5517
114.9667	2.0309	51.7095	0	51.7095
115	2.0322	51.7358	0	51.7358
115.0333	2.0289	51.8279	0.0006	51.8285
115.0667	2.0296	51.7095	0.0006	51.7101
115.1	2.0266	51.9857	0	51.9857
115.1333	2.0279	51.9462	0	51.9462
115.1667	2.0236	51.9199	0.0006	51.9205
115.2	2.025	51.8147	0	51.8147
115.2333	2.0273	51.9988	0	51.9988
115.2667	2.0256	52.0777	0.0006	52.0783
115.3	2.0243	52.0383	0	52.0383
115.3333	2.021	52.104	0.0006	52.1046
115.3667	2.0223	52.1435	0	52.1435
115.4	2.021	52.0646	0	52.0646
115.4333	2.0213	52.2092	0	52.2092
115.4667	2.021	52.2355	0	52.2355
115.5	2.0233	52.196	0.0006	52.1966
115.5333	2.0203	52.2486	0.0006	52.2492
115.5667	2.0243	52.2881	0.0006	52.2887
115.6	2.0217	52.2881	0	52.2881
115.6333	2.022	52.3538	0	52.3538
115.6667	2.0171	52.2881	0	52.2881
115.7	2.0207	52.3933	0	52.3933
115.7333	2.0203	52.4985	0	52.4985
115.7667	2.0203	52.4722	0	52.4722
115.8	2.0213	52.4196	0	52.4196
115.8333	2.0207	52.4853	0.0006	52.4859
115.8667	2.0167	52.4196	0	52.4196
115.9	2.0164	52.5642	0	52.5642
115.9333	2.0157	52.5905	0.0006	52.5911
115.9667	2.0203	52.5642	0	52.5642
116	2.0217	52.6168	0	52.6168
116.0333	2.0217	52.6168	0	52.6168
116.0667	2.0207	52.6563	0	52.6563



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(111111)	(psi)	(LFIVI)	(LFIVI)	(LFIVI)
116.1	2.0223	52.722	0	52.722
116.1333	2.021	52.6694	0.0006	52.67
116.1667	2.0236	52.8798	0.0006	52.8804
116.2	2.024	52.8272	0.0006	52.8278
116.2333	2.023	52.7615	0	52.7615
116.2667	2.0246	52.893	0	52.893
116.3	2.024	52.8404	0.0006	52.841
116.3333	2.0259	52.9061	0	52.9061
116.3667	2.0233	53.0113	0.0006	53.0119
116.4	2.0269	52.9719	0	52.9719
116.4333	2.0259	53.0113	0.0006	53.0119
116.4667	2.0282	53.0771	0	53.0771
116.5	2.0289	53.1034	0	53.1034
116.5333	2.0246	52.9982	0	52.9982
116.5667	2.0282	53.1165	0	53.1165
116.6	2.0289	53.0771	0	53.0771
116.6333	2.0263	53.1691	0	53.1691
116.6667	2.0309	53.1428	0.0006	53.1434
116.7	2.0299	53.1954	0	53.1954
116.7333	2.0292	53.2612	0	53.2612
116.7667	2.0296	53.2612	0	53.2612
116.8	2.0282	53.2875	0	53.2875
116.8333	2.0292	53.8661	0.0006	53.8667
116.8667	2.0299	53.6951	0	53.6951
116.9	2.0055	53.7609	0.0006	53.7615
116.9333	1.9167	53.6688	0	53.6688
116.9667	1.8113	53.6294	0	53.6294
117	1.7152	53.3664	0.0019	53.3683
117.0333	1.6234	53.3138	0.0006	53.3144
117.0667	1.5424	53.0245	0	53.0245
117.1	1.4615	52.722	0	52.722
117.1333	1.3878	52.6168	0	52.6168
117.1667	1.3176	52.196	0.0006	52.1966
117.2 117.2333	1.2505 1.1863	51.8279 51.6306	0.0006	51.8279 51.6312
117.2333	1.1297	51.6306		51.6312
117.2667	1.1297	50.8811	0.0006	
117.3	1.0761	50.8811	0.0006	50.8817 50.5135
117.3667	0.9734	50.5129	0.0006	50.5135
117.3667	0.9734	49.6187	0	49.6187
117.4	0.928	49.2505	0	49.8187
117.4333	0.8842	48.9349	0.0006	48.9355
117.4667	0.8401	48.3037	0.0006	48.3037
117.5	0.8042	40.3037	U	46.3037



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(,	(1001)	(2.11)	(2.11)	(=: 111)
117.5333	0.7654	47.7777	0.0006	47.7783
117.5667	0.7301	47.3438	0.0006	47.3444
117.6	0.6972	46.8836	0	46.8836
117.6333	0.6656	46.4365	0	46.4365
117.6667	0.634	45.9894	0	45.9894
117.7	0.6044	45.4502	0	45.4502
117.7333	0.5761	45.0031	0.0006	45.0037
117.7667	0.5478	44.3983	0	44.3983
117.8	0.5238	44.0169	0	44.0169
117.8333	0.5007	43.2937	0.0006	43.2943
117.8667	0.4764	42.9912	0	42.9912
117.9	0.452	42.4653	0	42.4653
117.9333	0.4333	41.7289	0.0006	41.7295
117.9667	0.4106	41.3344	0	41.3344
118	0.3901	40.7032	0	40.7032
118.0333	0.3697	40.1903	0	40.1903
118.0667	0.352	39.5329	0.0006	39.5335
118.1	0.3368	39.0595	0	39.0595
118.1333	0.3197	38.4809	0	38.4809
118.1667	0.3046	37.968	0	37.968
118.2	0.2888	37.3763	0.0006	37.3769
118.2333	0.2694	36.8898	0	36.8898
118.2667	0.2615	36.3112	0	36.3112
118.3	0.2427	35.772	0.0006	35.7726
118.3333	0.2312	35.1672	0	35.1672
118.3667	0.22	34.6412	0.0019	34.6431
118.4	0.2068	34.2072	0	34.2072
118.4333 118.4667	0.196 0.1858	33.6286	0.0006	33.6286
118.4667	0.1858	33.0106 32.3794	0.0006	33.0112 32.38
118.5333	0.1726	31.9192	0.0006	31.9198
118.5667	0.1542	31.288	0.0006	31.2886
118.5667	0.1342	30.7225	0.0008	30.7225
118.6333	0.1374	30.236	0.0006	30.7223
118.6667	0.1374	29.6311	0.0008	29.6311
118.7	0.1193	29.0788	0.0006	29.0794
118.7333	0.1078	28.4871	0.0006	28.4877
118.7667	0.1068	28.0006	0.0000	28.0006
118.8	0.0992	27.4088	0	27.4088
118.8333	0.0332	26.896	0.0006	26.8966
118.8667	0.0857	26.3305	0.0000	26.3305
118.9	0.0794	25.7256	0	25.7256
118.9333	0.0729	25.2128	0	25.2128
100000000000000000000000000000000000000	arvenuary to			



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,		,,		
118.9667	0.0669	24.6737	0	24.6737
119	0.0613	24.1214	0.0006	24.122
119.0333	0.0561	23.5559	0	23.5559
119.0667	0.0521	23.0168	0.0006	23.0174
119.1	0.0488	22.504	0.0006	22.5046
119.1333	0.0449	22.0043	0	22.0043
119.1667	0.0403	21.4257	0.0019	21.4276
119.2	0.0357	20.926	0	20.926
119.2333	0.0307	20.3343	0.0006	20.3349
119.2667	0.0265	19.7951	0.0006	19.7957
119.3	0.0228	19.2297	0.0006	19.2303
119.3333	0.0215	18.7694	0	18.7694
119.3667	0.0182	18.2303	0	18.2303
119.4	0.0126	17.7043	0	17.7043
119.4333	0.0107	17.2572	0.0006	17.2578
119.4667	0.008	16.7707	0.0006	16.7713
119.5	0.009	16.2578	0	16.2578
119.5333	0.0051	15.8239	0	15.8239
119.5667	0.0041	15.2979	0	15.2979
119.6	-0.0018	14.8114	0	14.8114
119.6333	-0.0035	14.3643	0.0006	14.3649
119.6667	-0.0002	13.904	0	13.904
119.7	-0.0058	13.457	0	13.457
119.7333	-0.0055	13.0362	0.0006	13.0368
119.7667	-0.0088	12.5102	0.0006	12.5108
119.8	-0.0121	12.0894	0	12.0894
119.8333	-0.0147	11.6686	0	11.6686
119.8667	-0.0107	11.2872	0	11.2872
119.9	-0.0114	10.827	0	10.827
119.9333 119.9667	-0.0157 -0.0147	10.4457 10.0512	0.0006	10.4463 10.0512
120			0	
	-0.015	9.6567	0	9.6567
120.0333 120.0667	-0.015 -0.017	9.2753 8.9466	0	9.2753 8.9466
120.0667	-0.017	8.631	0.0006	8.6316
120.1	-0.0176	8.1971	0.0006	8.1977
120.1333	-0.0208	7.8946	0.0008	7.8946
120.1667	-0.0183	7.6053	0.0019	7.6072
120.2	-0.0203	7.3292	0.0019	7.3292
120.2333	-0.0242	6.9741	0.0006	6.9747
120.2007	-0.0213	6.6848	0.0006	6.6854
120.3	-0.0213	6.4481	0.0008	6.4481
120.3553	-0.0236	6.1589	0	6.1589
120.3007	-0.0220	0.1365	U	0.1363



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(,		(=====,		
120.4	-0.0236	5.8696	0	5.8696
120.4333	-0.0209	5.6329	0	5.6329
120.4667	-0.0216	5.383	0	5.383
120.5	-0.0236	5.12	0.0006	5.1206
120.5333	-0.0236	4.9096	0.0006	4.9102
120.5667	-0.0216	4.6729	0	4.6729
120.6	-0.0252	4.5283	0.0006	4.5289
120.6333	-0.0239	4.2653	0.0006	4.2659
120.6667	-0.0252	4.0943	0	4.0943
120.7	-0.0262	3.8577	0	3.8577
120.7333	-0.0229	3.7393	0.0006	3.7399
120.7667	-0.0255	3.5815	0	3.5815
120.8	-0.0265	3.3974	0	3.3974
120.8333	-0.0269	3.2791	0.0006	3.2797
120.8667	-0.0239	3.0818	0	3.0818
120.9	-0.0229	2.9766	0	2.9766
120.9333	-0.0272	0	0	0
120.9667	-0.0282	0.0048	0	0.0048
121	-0.0239	0	0.0006	0.0006
121.0333	-0.0242	0	0.0006	0.0006
121.0667	-0.0252	0.0311	0.0006	0.0317
121.1	-0.0229	0.0048	0	0.0048
121.1333	-0.0269	0.0048	0	0.0048
121.1667	-0.0232	0	0	0
121.2	-0.0259	0	0	0
121.2333	-0.0262	0.0048	0.0019	0.0067
121.2667	-0.0259	0	0.0019	0.0019
121.3	-0.0229	0.0048	0	0.0048
121.3333	-0.0269	0.0179	0.0006	0.0185
121.3667 121.4	-0.0269 -0.0246	0.0179	0.0006	0.0185
		0		
121.4333 121.4667	-0.017	_	0.0006	0.0006 0.0048
121.4667	-0.019 -0.0183	0.0048	0	0.0048
121.5333	-0.0183	0	0.0006	0.0006
121.55667	-0.019	0	0.0008	0.0000
121.5007	-0.02	0	0.0006	0.0006
121.6333	-0.017	0.0048	0.0006	0.0054
121.6667	-0.017	0.0048	0.0006	0.0004
121.0007	-0.0133	0	0.0008	0.0000
121.7333	-0.0229	0	0	0
121.7667	-0.0223	0	0	0
121.7667	-0.0223	0	0	0
121.0	0.0202	U	U	U



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
121.8333	-0.0239	0.0048	0.0006	0.0054
121.8667	-0.0219	0.0048	0	0.0048
121.9	-0.0229	0.0048	0	0.0048
121.9333	-0.0249	0	0	0
121.9667	-0.0242	0	0	0
122	-0.0239	0	0	0
122.0333	-0.0255	0.0048	0.0019	0.0067
122.0667	-0.0236	0	0	0
122.1	-0.0328	0.0048	0.0006	0.0054
122.1333	-0.0351	0	0.0019	0.0019
122.1667	-0.0361	0.0048	0.0006	0.0054
122.2	-0.0328	0	0.0019	0.0019
122.2333	-0.0315	0.0048	0	0.0048
122.2667	-0.0305	0	0.0006	0.0006
122.3	-0.0311	0	0.0006	0.0006
122.3333	-0.0305	0.0048	0.0019	0.0067
122.3667	-0.0285	0	0.0006	0.0006
122.4	-0.0219	0.0048	0.0006	0.0054
122.4333	-0.0223	0	0	0
122.4667	-0.0252	0	0	0
122.5	-0.0229	0	0.0019	0.0019
122.5333 122.5667	-0.0252 -0.0265	0	0.0006	0.0006
122.5667	-0.0265	0.0048	0.0006	0.0008
122.6333	-0.0246	0.0048	0	0.0048
122.6667	-0.0292	0	0.0006	0.0006
122.0007	-0.0249	0.0048	0.0006	0.0054
122.7333	-0.0255	0.0048	0.0006	0.0034
122.7667	-0.0269	0	0.0006	0.0006
122.7007	-0.0205	0	0.0000	0.0000
122.8333	-0.0272	0	0.0006	0.0006
122.8667	-0.0236	0	0	0
122.9	-0.0249	0	0	0
122.9333	-0.0262	0	0.0006	0.0006
122.9667	-0.0242	0.0048	0.0006	0.0054
123	-0.0239	0.0048	0	0.0048
123.0333	-0.0226	0.0179	0	0.0179
123.0667	-0.0269	0.0048	0	0.0048
123.1	-0.0249	0	0.0006	0.0006
123.1333	-0.0246	0.0048	0.0006	0.0054
123.1667	-0.0232	0	0	0
123.2	-0.0213	0	0.0006	0.0006
123.2333	-0.0219	0.0048	0	0.0048



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(,	(1001)	(2.111)	(2.11)	(=:,
123.2667	-0.0239	0	0	0
123.3	0.0176	0	0.0006	0.0006
123.3333	0.1002	0.0048	0	0.0048
123.3667	0.2002	0	0.0006	0.0006
123.4	0.3003	0	0	0
123.4333	0.3974	0.0048	0	0.0048
123.4667	0.4869	0	0.0006	0.0006
123.5	0.5695	8.3417	0	8.3417
123.5333	0.6452	9.9854	0.0006	9.986
123.5667	0.7153	11.6028	0.0019	11.6048
123.6	0.7812	13.1545	0	13.1545
123.6333	0.8407	14.601	0	14.601
123.6667	0.8937	16.0212	0.0006	16.0217
123.7	0.9434	17.3493	0.0006	17.3499
123.7333	0.9908	18.7431	0	18.7431
123.7667	1.0379	19.9792	0.0006	19.9798
123.8	1.0823	21.2021	0.0006	21.2027
123.8333	1.1228	22.4119	0.0006	22.4125
123.8667	1.163	23.5296	0	23.5296
123.9	1.1998	24.6342	0	24.6342
123.9333	1.234	25.6073	0	25.6073
123.9667 124	1.2726 1.3048	26.6856 27.6981	0	26.6856 27.6981
124.0333	1.3328	28.6843	0	
124.0333	1.3328	28.6843	0.0006	28.6843 29.5923
124.0667	1.391	30.5516	0.0008	30.5516
124.1333	1.4207	31.4326	0	31.4326
124.1555	1.448	32.34	0	32.34
124.2	1.4753	33.2604	0.0006	33.261
124.2333	1.5	34.1152	0.0000	34.1152
124.2667	1.523	34.9436	0	34.9436
124.3	1.548	35.8509	0.0006	35.8515
124.3333	1.5658	36.6268	0	36.6268
124.3667	1.5872	37.4158	0.0006	37.4164
124.4	1.6129	38.231	0	38.231
124.4333	1.6303	39.0069	0	39.0069
124.4667	1.6471	39.7301	0	39.7301
124.5	1.6705	40.5059	0.0006	40.5065
124.5333	1.6863	41.3081	0	41.3081
124.5667	1.7034	42.0576	0.0019	42.0595
124.6	1.7208	42.7151	0.0006	42.7157
124.6333	1.7337	43.4383	0	43.4383
124.6667	1.7524	44.1484	0	44.1484



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,				
124.7	1.7679	44.8585	0	44.8585
124.7333	1.7837	45.4371	0	45.4371
124.7667	1.7939	46.134	0.0006	46.1346
124.8	1.811	46.7652	0.0006	46.7658
124.8333	1.8268	47.5016	0	47.5016
124.8667	1.8397	48.0933	0.0019	48.0952
124.9	1.8482	48.6588	0	48.6588
124.9333	1.8594	49.3163	0.0006	49.3169
124.9667	1.8722	49.8948	0.0006	49.8954
125	1.8824	50.526	0	50.526
125.0333	1.8963	51.052	0	51.052
125.0667	1.9084	51.7095	0.0006	51.7101
125.1	1.9167	52.3012	0.0006	52.3018
125.1333	1.9246	52.8667	0.0006	52.8673
125.1667	1.9341	53.4321	0.0006	53.4327
125.2	1.9453	54.0107	0.0006	54.0113
125.2333	1.9529	54.471	0.0006	54.4716
125.2667	1.9631	55.1021	0	55.1021
125.3	1.9703	55.615	0	55.615
125.3333	1.9782	56.0358	0	56.0358
125.3667	1.9881	56.6801	0.0006	56.6807
125.4	1.9963	57.1535	0	57.1535
125.4333	2.0009	57.7189	0	57.7189
125.4667	2.0075	58.166	0	58.166
125.5	2.0171	58.6657	0.0006	58.6663
125.5333	2.0197	59.126	0	59.126
125.5667	2.0213	59.6651	0	59.6651
125.6	2.0243	60.1253	0.0006	60.1259
125.6333 125.6667	2.0259	60.6513	0	60.6513
125.6667	2.0259	61.0195 61.414	0	61.0195 61.414
125.7	2.0273	61.94	0	61.94
125.7667	2.023	62.3345	0	62.3345
125.7667	2.0213	62.8079	0.0006	62.8085
125.8333	2.0227	63.1892	0.0006	63.1898
125.8667	2.0259	63.6626	0.0008	63.6626
125.8667	2.0256	64.0571	0.0006	64.0577
125.9333	2.0269	64.3595	0.0000	64.3595
125.9667	2.0286	64.7277	0	64.7277
125.3007	2.0302	65.1485	0	65.1485
126.0333	2.0276	65.451	0	65.451
126.0667	2.0270	65.8455	0.0006	65.8461
126.0667	2.0232	66.3583	0.0006	66.3589
120.1	2.0312	00.3363	0.0000	00.5565



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(,	(100.7)	(=,	1	(,
126.1333	2.0335	66.6345	0	66.6345
126.1667	2.0338	66.9369	0.0006	66.9375
126.2	2.0342	67.3051	0	67.3051
126.2333	2.0345	67.647	0	67.647
126.2667	2.0381	68.0152	0.0006	68.0158
126.3	2.0384	68.3965	0	68.3965
126.3333	2.0355	68.7779	0	68.7779
126.3667	2.0361	69.0409	0.0006	69.0414
126.4	2.0338	69.3696	0.0019	69.3715
126.4333	2.0338	69.7378	0.0006	69.7384
126.4667	2.0335	69.9745	0.0006	69.9751
126.5	2.0332	70.3164	0.0006	70.317
126.5333	2.0312	70.5662	0.0019	70.5681
126.5667	2.0322	70.8555	0	70.8555
126.6	2.0296	71.2369	0.0006	71.2375
126.6333	2.0302	71.3947	0.0006	71.3953
126.6667	2.0319	71.6445	0	71.6445
126.7	2.0315	72.0653	0.0006	72.0659
126.7333	2.0273	72.302	0.0006	72.3026
126.7667	2.0282	72.5913	0	72.5913
126.8	2.0276	72.8543	0.0006	72.8549
126.8333	2.0279	73.1041	0.0006	73.1047
126.8667	2.0266	73.3803	0	73.3803
126.9	2.0246	73.617	0.0006	73.6176
126.9333	2.0263	73.9852	0.0006	73.9857
126.9667	2.0269	74.2613	0	74.2613
127	2.024	74.4848	0.0006	74.4854
127.0333	2.0246	74.59	0	74.59
127.0667	2.0243	74.8793	0	74.8793
127.1	2.0227	75.1818	0	75.1818
127.1333	2.0253	75.4842	0	75.4842
127.1667	2.023	75.5631	0	75.5631
127.2	2.0197	75.8261	0	75.8261
127.2333	2.02	76.0234	0.0006	76.024
127.2667	2.0187	76.1812	0.0006	76.1818
127.3	2.0236	76.523	0	76.523
127.3333	2.0227	76.7071	0.0006	76.7077
127.3667	2.022	76.9175	0	76.9175
127.4	2.0187	77.1016	0	77.1016
127.4333	2.023	77.3252	0.0006	77.3258
127.4667	2.0187	77.5224	0.0019	77.5243
127.5	2.0187	77.746	0.0006	77.7466
127.5333	2.0207	77.9169	0.0006	77.9175



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow		Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
127.5667	2.018	78.1668	0	78.1668
127.6	2.018	78.3509	0.0006	78.3515
127.6333	2.0197	78.5087	0	78.5087
127.6667	2.0207	78.8111	0.0006	78.8117
127.7	2.0174	78.9426	0.0006	78.9432
127.7333	2.02	79.2319	0	79.2319
127.7667	2.0187	79.4949	0	79.4949
127.8	2.0184	79.5343	0.0006	79.5349
127.8333	2.0177	79.7184	0.0019	79.7203
127.8667	2.018	79.8499	0.0006	79.8505
127.9	2.0217	80.1392	0	80.1392
127.9333	2.02	80.3365	0	80.3365
127.9667	2.0151	80.4417	0.0006	80.4423
128	2.0157	80.7441	0.0006	80.7447
128.0333	2.0167	80.9019	0.0019	80.9038
128.0667	2.0187	81.0466	0	81.0466
128.1	2.0197	81.2307	0	81.2307
128.1333	2.0194	81.4279	0	81.4279
128.1667	2.0207	81.5199	0	81.5199
128.2	2.0167	81.5594	0.0006	81.56
128.2333	2.0167	81.8355	0	81.8355
128.2667	2.019	81.8618	0.0006	81.8624
128.3	2.0171	82.0065	0	82.0065
128.3333	2.0171	82.2563	0	82.2563
128.3667	2.0174	82.4141	0	82.4141
128.4	2.0141	82.5588	0	82.5588
128.4333	2.0164	82.7297	0.0006	82.7303
128.4667	2.0157	82.927	0	82.927
128.5	2.0164	83.019	0.0006	83.0196
128.5333	2.0171	83.1768	0.0006	83.1774
128.5667	2.0141	83.4267	0	83.4267
128.6	2.0124	83.4004	0	83.4004
128.6333	2.0167	83.6371	0	83.6371
128.6667	2.0148	83.7686	0	83.7686
128.7	2.0148	83.808	0	83.808
128.7333	2.0157	84.1104	0.0006	84.111
128.7667	2.018	84.1762	0	84.1762
128.8	2.0151	84.2419	0	84.2419
128.8333	2.0148	84.2945	0.0019	84.2965
128.8667	2.0207	84.6233	0.0006	84.6239
128.9	2.0144	84.597	0	84.597
128.9333	2.018	84.8205	0.0006	84.8211
128.9667	2.0203	84.9652	0	84.9652



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(,	(100.1)	(2.111)	(2.10)	(=:,
129	2.0207	85.0704	0.0006	85.071
129.0333	2.018	85.3334	0.0006	85.334
129.0667	2.022	85.4386	0.0006	85.4392
129.1	2.0227	85.5175	0	85.5175
129.1333	2.0203	85.6753	0	85.6753
129.1667	2.022	85.6358	0	85.6358
129.2	2.0227	85.7805	0.0006	85.7811
129.2333	2.022	86.0698	0.0006	86.0704
129.2667	2.021	86.0172	0.0006	86.0178
129.3	2.022	86.2276	0	86.2276
129.3333	2.0203	86.2933	0	86.2933
129.3667	2.0223	86.4905	0	86.4905
129.4	2.0194	86.5431	0.0006	86.5437
129.4333	2.0223	86.7141	0	86.7141
129.4667	2.0203	86.7535	0.0006	86.7541
129.5	2.022	87.0954	0.0006	87.096
129.5333	2.0197	87.0297	0	87.0297
129.5667	2.0227	87.2138	0	87.2138
129.6	2.022	87.3321	0.0006	87.3327
129.6333	2.0207	87.3058	0	87.3058
129.6667	2.0213	87.4242	0.0006	87.4248
129.7	2.018	87.6083	0.0006	87.6089
129.7333	2.0194	87.6609	0.0006	87.6615
129.7667	2.0197	87.8713	0	87.8713
129.8	2.022	87.9633	0.0006	87.9639
129.8333	2.0203	88.0159	0	88.0159
129.8667	2.021	88.0948	0	88.0948
129.9	2.0203	88.2132	0.0006	88.2138
129.9333	2.0184	88.2132	0	88.2132
129.9667	2.0213	88.463	0	88.463
130	2.0223	88.463	0	88.463
130.0333	2.0213	88.6734	0	88.6734
130.0667	2.022	88.7523	0	88.7523
130.1	2.0213	88.8312	0	88.8312
130.1333	2.0223	88.818	0	88.818
130.1667	2.0207	89.0679	0.0006	89.0685
130.2	2.0187	89.1731	0	89.1731
130.2333	2.0223	89.2388	0	89.2388
130.2667	2.019	89.2783	0.0006	89.2789
130.3	2.0217	89.3046	0	89.3046
130.3333	2.0184	89.4492	0.0006	89.4498
130.3667	2.0177	89.6202	0.0006	89.6208
130.4	2.0197	89.5544	0	89.5544



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
(,	(100.7)	(=,	(=)	(,
130.4333	2.021	89.607	0	89.607
130.4667	2.021	89.8043	0.0006	89.8049
130.5	2.0171	89.8437	0	89.8437
130.5333	2.0207	89.8963	0	89.8963
130.5667	2.018	90.0673	0	90.0673
130.6	2.0164	89.9226	0	89.9226
130.6333	2.0213	90.1199	0	90.1199
130.6667	2.0171	90.1725	0.0006	90.1731
130.7	1.966	88.9758	8.3928	97.3686
130.7333	1.888	90.2514	0	90.2514
130.7667	1.7166	90.2645	0	90.2645
130.8	1.5625	90.0804	0	90.0804
130.8333	1.4213	89.7385	0	89.7385
130.8667	1.2913	89.4229	0	89.4229
130.9	1.1751	89.1468	0	89.1468
130.9333	1.0668	88.6997	0	88.6997
130.9667	0.973	88.3447	0	88.3447
131	0.8829	87.7003	0.0006	87.7009
131.0333	0.8032	87.1875	0	87.1875
131.0667	0.7361	86.5037	0	86.5037
131.1	0.6722	86.004	0.0006	86.0046
131.1333	0.6156	85.2808	0	85.2808
131.1667	0.5662	84.6233	0	84.6233
131.2	0.5188	84.0315	0	84.0315
131.2333	0.479	83.1637	0.0006	83.1643
131.2667	0.4392	82.5982	0.0006	82.5988
131.3	0.4069	81.9144	0.0006	81.915
131.3333	0.3776	81.0466	0	81.0466
131.3667	0.3493	80.3891	0.0006	80.3897
131.4	0.3253	79.5475	0	79.5475
131.4333 131.4667	0.3013	78.7454	0.0006	78.746
131.4667	0.2805	77.9432	0.0006	77.9432
131.5	0.2621	77.1542 76.5099	0.0006	77.1548 76.5099
131.5667	0.2305	75.6026	0	75.6026
131.5667	0.2303	74.7873	0	74.7873
131.6333	0.2167	73.9983	0.0006	73.9989
131.6667	0.2033	73.2093	0.0008	73.2093
131.7	0.1775	72.3414	0	72.3414
131.7333	0.1773	71.605	0.0006	71.6056
131.7667	0.1575	70.632	0.0006	70.6326
131.8	0.1373	69.9219	0.0008	69.9219
131.8333	0.1463	69.0014	0.0006	69.002
131.0333	0.141/	35.0014	0.0000	03.002



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
,		,,		
131.8667	0.1311	68.3045	0	68.3045
131.9	0.1259	67.3971	0.0019	67.399
131.9333	0.114	66.6345	0	66.6345
131.9667	0.1097	65.9244	0.0006	65.925
132	0.1018	64.9776	0	64.9776
132.0333	0.0926	64.0966	0	64.0966
132.0667	0.0841	63.5574	0	63.5574
132.1	0.0801	62.6632	0	62.6632
132.1333	0.0712	61.9794	0	61.9794
132.1667	0.0636	61.1905	0.0006	61.1911
132.2	0.0597	60.4146	0	60.4146
132.2333	0.0518	59.5993	0.0006	59.5999
132.2667	0.0446	58.7709	0	58.7709
132.3	0.0403	58.0477	0	58.0477
132.3333	0.0307	57.2061	0	57.2061
132.3667	0.0255	56.5223	0.0006	56.5229
132.4	0.0218	55.7202	0.0006	55.7208
132.4333	0.0169	54.9706	0	54.9706
132.4667	0.0113	54.3132	0	54.3132
132.5	0.006	53.4716	0.0006	53.4722
132.5333	0.0034	52.722	0.0006	52.7226
132.5667	-0.0005	52.012	0.0006	52.0126
132.6	-0.0055	51.2887	0	51.2887
132.6333	-0.0061	50.4471	0.0006	50.4477
132.6667	-0.0097	49.6713	0	49.6713
132.7	-0.0144	48.9744	0	48.9744
132.7333	-0.0167	48.238	0.0006	48.2386
132.7667	-0.0186	47.4884	0	47.4884
132.8	-0.0239	46.6469	0.0006	46.6475
132.8333 132.8667	-0.0213 -0.0252	46.1077 45.3056	0.0006	46.1083 45.3056
132.8667		44.5035	0.0006	44.5041
132.9	-0.0265	43.7671		
132.9333	-0.0272 -0.0272	43.7671	0	43.7671 43.0175
132.9667	-0.0272	42.3601	0	42.3601
133.0333	-0.0318	41.6368	0	41.6368
133.0667	-0.0318	40.9662	0.0006	40.9668
133.0667	-0.0334	40.1115	0.0008	40.9668
133.1333	-0.0348	39.4277	0	39.4277
133.1667	-0.0338	38.7307	0.0006	38.7313
133.2	-0.0331	38.0206	0.0008	38.0206
133.2333	-0.0344	37.2711	0.0006	37.2717
133.2667	-0.0341	36.5216	0.0008	36.5216
133.2007	-0.0304	30.3210	U	30.3210



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
133.3	-0.0361	35.8641	0	35.8641
133.3333	-0.0407	35.2198	0	35.2198
133.3667	-0.0394	34.536	0.0006	34.5366
133.4	-0.04	33.7996	0	33.7996
133.4333	-0.0397	33.1815	0.0006	33.1821
133.4667	-0.0404	32.5241	0.0006	32.5247
133.5	-0.0407	31.8929	0.0006	31.8935
133.5333	-0.0407	31.2222	0	31.2222
133.5667	-0.0407	30.5253	0	30.5253
133.6	-0.039	29.8941	0	29.8941
133.6333	-0.0404	29.1709	0.0019	29.1728
133.6667	-0.0413	28.5265	0.0006	28.5271
133.7	-0.04	27.9348	0.0006	27.9354
133.7333	-0.0404	27.3168	0	27.3168
133.7667	-0.0433	26.7382	0.0006	26.7388
133.8	-0.0446	26.1859	0	26.1859
133.8333	-0.0433	25.5284	0	25.5284
133.8667	-0.04	24.9235	0	24.9235
133.9	-0.0384	24.2792	0.0006	24.2798
133.9333	-0.042	23.7137	0	23.7137
133.9667	-0.0436	23.0563	0.0006	23.0569
134	-0.04	22.4908	0	22.4908
134.0333	-0.04	21.8991	0	21.8991
134.0667	-0.044	21.3599	0.0006	21.3605
134.1	-0.041	20.7945	0	20.7945
134.1333	-0.04	20.0976	0	20.0976
134.1667	-0.0417	19.5847	0	19.5847
134.2	-0.0397	19.085	0	19.085
134.2333	-0.0446	18.5327	0	18.5327
134.2667	-0.039	17.941	0	17.941
134.3	-0.0427	17.4413	0.0006	17.4419
134.3333	-0.04	16.8759	0.0006	16.8765
134.3667	-0.0367	16.3893	0	16.3893
134.4	-0.041	15.8634	0	15.8634
134.4333	-0.042	15.3242	0	15.3242
134.4667	-0.0387	14.8771	0.0006	14.8777



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
0	-0.0249	0	0	0
0.0333	-0.0272	0	0	0
0.0667	-0.0265	0	0.0006	0.0006
0.1	-0.0259	0	0.0019	0.0019
0.1333	-0.0229	0	0.0006	0.0006
0.1667	-0.0265	0	0	0
0.2	-0.0242	0	0	0
0.2333	-0.0265	0	0	0
0.2667	-0.0239	0.0131	0.0006	0.0137
0.3	-0.0252	0	0.0006	0.0006
0.3333	-0.0275	0.0131	0.0006	0.0137
0.3667	-0.0259	0	0	0
0.4	-0.0265	0.0131	0.0019	0.0151
0.4333	-0.0272 -0.0275	0 0.0131	0.0006 0.0006	0.0006 0.0137
0.4667	-0.0273	0.0131	0.0008	0.0137
0.5333	-0.0292	0.0203	0	0.0203
0.5667	-0.0292	0.0131	0	0.0131
0.6	-0.0292	0.0151	0	0.0131
0.6333	-0.0282	0	0.0019	0.0019
0.6667	-0.0288	0.0131	0.0019	0.0151
0.7	-0.0282	0	0	0
0.7333	-0.0285	0.0131	0	0.0131
0.7667	-0.0262	0.0131	0	0.0131
0.8	-0.0279	0	0.0006	0.0006
0.8333	-0.0259	0.0131	0	0.0131
0.8667	-0.0272	0.0131	0.0006	0.0137
0.9	-0.0292	0.0263	0	0.0263
0.9333	-0.0259	0.0131	0	0.0131
0.9667	-0.0279	0.0131	0	0.0131
1	-0.0282	0	0	0
1.0333	-0.0269	0.0263	0	0.0263
1.0667	-0.0255	0	0	0
1.1 1.1333	-0.0282 -0.0285	0.0263	0.0006	0 0.0269
1.1667	-0.0285	0.0263	0.0006	0.0289
1.1007	-0.0283	0.0131	0.0000	0.0137
1.2333	-0.0275	0.0131	0.0006	0.0137
1.2667	-0.0246	0.0131	0.0000	0.0137
1.3	-0.0275	0	0	0
1.3333	-0.0308	0	0.0006	0.0006
1.3667	-0.0285	0	0	0
1.4	-0.0282	0	0.0006	0.0006
1.4333	-0.0262	0.0131	0	0.0131



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
1.4667	-0.0295	0	0.0006	0.0006
1.5	-0.0259	0.0131	0	0.0131
1.5333	-0.0262	0.0131	0.0019	0.0151
1.5667	-0.0252	0.0131	0	0.0131
1.6	-0.0285	0.0131	0.0006	0.0137
1.6333	-0.0288	0.0131	0.0006	0.0137
1.6667	-0.0265	0.0263	0.0019	0.0282
1.7	-0.0295	0.0131	0.0006	0.0137
1.7333	-0.0252	0.0131	0.0006	0.0137
1.7667	-0.0302	0.0131	0.0006	0.0137
1.8	-0.0272	0.0131	0.0006	0.0137
1.8333 1.8667	-0.0285	0.0131	0	0.0131
1.8667	-0.0282 -0.0279	0.0131	0.0006 0.0006	0.0006 0.0137
1.9333	-0.0262	0.0131	0.0000	0.0137
1.9667	-0.0262	0.0131	0	0.0131
2	-0.0292	0.0131	0	0.0131
2.0333	-0.0272	0	0	0
2.0667	-0.0259	0.0131	0.0006	0.0137
2.1	-0.0223	0.0131	0	0.0131
2.1333	-0.0176	0.0131	0	0.0131
2.1667	-0.0028	0	0	0
2.2	0.0146	0.0131	0	0.0131
2.2333	0.0255	0.0263	0	0.0263
2.2667	0.0574	0.0131	0	0.0131
2.3	0.1696	0.0131	0	0.0131
2.3333	0.2694	0.0131	0.0006	0.0137
2.3667	0.3618	0.0131	0	0.0131
2.4	0.4431	0.0131	0.0006	0.0137
2.4333 2.4667	0.5139 0.5758	8.9287 10.7828	0.0019	8.9306 10.7828
2.4007	0.6317	12.5711	0.0006	12.5717
2.5333	0.6857	14.1623	0.0000	14.1623
2.5667	0.7374	15.6745	0	15.6745
2.6	0.7841	17.1209	0.0006	17.1215
2.6333	0.8302	18.5017	0	18.5017
2.6667	0.8694	19.8298	0.0019	19.8317
2.7	0.9102	21.1053	0	21.1053
2.7333	0.9467	22.394	0	22.394
2.7667	0.9809	23.538	0	23.538
2.8	1.0181	24.7609	0.0019	24.7628
2.8333	1.0468	25.8655	0.0006	25.8661
2.8667	1.077	26.8912	0.0006	26.8918
2.9	1.1063	27.8906	0.0006	27.8912



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
2.9333	1.1363	29.074	0.0006	29.0746
2.9667	1.161	29.9682	0	29.9682
3	1.1834	30.9939	0.0006	30.9945
3.0333	1.209	31.9275	0.0006	31.9281
3.0667	1.2324	32.8612	0	32.8612
3.1	1.2535	33.7685	0.0006	33.7691
3.1333	1.2752	34.689	0	34.689
3.1667	1.2956	35.5963	0.0006	35.5969
3.2	1.3163	36.4116	0.0006	36.4122
3.2333	1.3348	37.2269	0	37.2269
3.2667	1.3565	38.1342	0	38.1342
3.3	1.3723	38.8311	0	38.8311
3.3333 3.3667	1.391 1.4059	39.6727 40.488	0.0006	39.6733 40.488
3.4	1.4039	41.1981	0.0006	41.1987
3.4333	1.4384	41.9082	0.0000	41.1987
3.4667	1.4526	42.7103	0	42.7103
3.5	1.4661	43.4073	0	43.4073
3.5333	1.4753	44.0253	0.0006	44.0259
3.5667	1.4901	44.7748	0.0006	44.7754
3.6	1.5026	45.4718	0	45.4718
3.6333	1.5145	46.1292	0	46.1292
3.6667	1.528	46.7473	0	46.7473
3.7	1.5385	47.4311	0.0006	47.4317
3.7333	1.5497	48.0886	0	48.0886
3.7667	1.5589	48.7329	0.0006	48.7335
3.8	1.5704	49.3115	0	49.3115
3.8333	1.5757	49.9953	0.0006	49.9959
3.8667	1.5921	50.587	0	50.587
3.9	1.5977	51.1524	0	51.1524
3.9333	1.6066	51.7705	0	51.7705
3.9667	1.6168	52.3228	0.0006	52.3234
4 0222	1.6218	52.9014	0	52.9014
4.0333 4.0667	1.632	53.4931 54.0717	0 0006	53.4931 54.0723
4.0667	1.6405 1.6478	54.624	0.0006	54.6246
4.1333	1.655	55.1237	0.0006	55.1243
4.1667	1.6626	55.7285	0.0000	55.7285
4.1007	1.6692	56.2414	0	56.2414
4.2333	1.6741	56.82	0	56.82
4.2667	1.6853	57.2539	0	57.2539
4.3	1.6899	57.7668	0	57.7668
4.3333	1.6965	58.2664	0	58.2664
4.3667	1.7004	58.753	0.0006	58.7536



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow		Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
4.4	1.705	59.1212	0	59.1212
4.4333	1.7143	59.7655	0	59.7655
4.4667	1.7152	60.1863	0.0006	60.1869
4.5	1.7225	60.6202	0.0006	60.6208
4.5333	1.7277	61.1462	0.0019	61.1481
4.5667	1.733	61.5933	0	61.5933
4.6	1.735	62.093	0.0019	62.0949
4.6333	1.7442	62.5007	0.0006	62.5013
4.6667	1.7478	62.8951	0	62.8951
4.7	1.7498	63.1976	0.0006	63.1982
4.7333	1.7498	63.8156	0.0019	63.8175
4.7667	1.7567	64.0786	0.0006	64.0792
4.8 4.8333	1.7607 1.7663	64.552 64.9991	0	64.552 64.9991
4.8667	1.7715	65.3541	0	65.3541
4.8007	1.7713	65.7618	0	65.7618
4.9333	1.7725	66.1563	0	66.1563
4.9667	1.7817	66.6165	0.0019	66.6184
5	1.7814	66.9716	0.0006	66.9722
5.0333	1.7844	67.4055	0.0006	67.4061
5.0667	1.7926	67.8263	0	67.8263
5.1	1.7929	68.1813	0.0006	68.1819
5.1333	1.7952	68.5101	0.0006	68.5107
5.1667	1.8002	68.9046	0	68.9046
5.2	1.7979	69.3385	0	69.3385
5.2333	1.8008	69.6278	0.0032	69.631
5.2667	1.8058	69.9697	0	69.9697
5.3	1.8113	70.351	0.0006	70.3516
5.3333	1.8146	70.7061	0	70.7061
5.3667 5.4	1.8298 1.8512	71.1137 71.3373	0.0006	71.1137 71.3379
5.4333	1.8624	71.8238	0.0008	71.8238
5.4667	1.8768	72.1657	0	72.1657
5.5	1.8897	72.547	0.0006	72.5476
5.5333	1.9032	72.9021	0.0006	72.9027
5.5667	1.9117	73.244	0	73.244
5.6	1.9209	73.599	0	73.599
5.6333	1.9338	74.0067	0	74.0067
5.6667	1.941	74.3091	0	74.3091
5.7	1.9509	74.8351	0	74.8351
5.7333	1.9568	75.1375	0.0019	75.1395
5.7667	1.9644	75.6372	0	75.6372
5.8	1.9736	75.795	0.0006	75.7956
5.8333	1.9911	76.3079	0.0006	76.3085



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
5.8667	2.0085	76.7287	0	76.7287
5.9	2.0256	77.11	0	77.11
5.9333	2.0411	77.3861	0	77.3861
5.9667	2.0569	77.7806	0.0006	77.7812
6	2.0687	78.2014	0.0006	78.202
6.0333	2.0816	78.4513	0.0006	78.4519
6.0667	2.0944	78.8326	0.0006	78.8332
6.1	2.1039	79.2271	0.0006	79.2277
6.1333	2.1184	79.6479	0.0006	79.6485
6.1667	2.125	80.1081	0	80.1081
6.2	2.1336	80.4106	0.0006	80.4112
6.2333	2.1461	80.8445	0	80.8445
6.2667	2.153	81.3048	0.0006	81.3054
6.3 6.3333	2.1632 2.1708	81.7124 82.0938	0.0006	81.713 82.0938
6.3667	2.1767	82.383	0.0006	82.3836
6.4	2.1846	82.7644	0.0006	82.765
6.4333	2.1928	83.2904	0.0019	83.2923
6.4667	2.1971	83.5928	0.0015	83.5928
6.5	2.2007	84.0136	0.0006	84.0142
6.5333	2.2089	84.3818	0	84.3818
6.5667	2.2129	84.6448	0	84.6448
6.6	2.2175	84.9735	0	84.9735
6.6333	2.2221	85.4995	0	85.4995
6.6667	2.2264	85.894	0.0006	85.8946
6.7	2.232	86.1307	0	86.1307
6.7333	2.231	86.5647	0	86.5647
6.7667	2.2343	87.0118	0	87.0118
6.8	2.2409	87.1958	0	87.1958
6.8333	2.2402	87.6298	0.0006	87.6304
6.8667	2.2442	88.0243	0	88.0243
6.9	2.2458	88.3267	0.0006	88.3273
6.9333	2.2494	88.6686	0.0006	88.6692
6.9667	2.2494	89.142 89.2735	0	89.142
7 7.0333	2.2534	89.2735 89.8258	0.0006	89.2735 89.8264
7.0667	2.2547	89.9836	0.0006	89.9842
7.0007	2.257	90.3781	0.0000	90.3781
7.1333	2.2573	90.6674	0	90.6674
7.1667	2.2609	91.0093	0	91.0093
7.2	2.2669	91.3643	0	91.3643
7.2333	2.2738	91.5353	0	91.5353
7.2667	2.2767	92.1138	0	92.1138
7.3	2.2856	92.3637	0.0006	92.3643



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
7.3333	2.2916	92.7582	0.0006	92.7588
7.3667	2.2975	92.9291	0	92.9291
7.4	2.3047	93.2579	0.0006	93.2585
7.4333	2.309	93.5998	0	93.5998
7.4667	2.3097	94.1521	0.0006	94.1527
7.5	2.3143	94.4545	0.0006	94.4551
7.5333	2.3199	94.7832	0	94.7832
7.5667	2.3235	94.9673	0	94.9673
7.6	2.3268	95.1777	0	95.1777
7.6333	2.3314	95.5722	0.0006	95.5728
7.6667	2.3353	95.9536	0	95.9536
7.7 7.7333	2.3386	96.2297 96.6637	0.0006	96.2303 96.6637
7.7667	2.3426	96.6637	0	96.6637
7.7007	2.3455	97.0844	0	97.0844
7.8333	2.3468	97.3606	0	97.3606
7.8667	2.3508	97.663	0.0006	97.6636
7.9	2.3511	97.8997	0.0006	97.9003
7.9333	2.3528	98.1627	0	98.1627
7.9667	2.3564	98.5178	0.0006	98.5184
8	2.3557	98.978	0	98.978
8.0333	2.3577	99.3857	0	99.3857
8.0667	2.3577	99.6092	0.0006	99.6098
8.1	2.361	99.8722	0.0006	99.8728
8.1333	2.3633	99.9905	0	99.9905
8.1667	2.3597	100.4508	0	100.4508
8.2	2.3636	100.4771	0	100.4771
8.2333	2.3656	101.0294	0	101.0294
8.2667	2.3666	101.4107	0	101.4107
8.3	2.3653	101.5028	0	101.5028
8.3333 8.3667	2.3659 2.3725	101.7789 101.8184	0.0006	101.7795 101.819
8.4	2.3738	102.2654	0.0008	102.2654
8.4333	2.3781	102.7257	0.0006	102.7263
8.4667	2.384	102.9098	0.0000	102.9098
8.5	2.3877	103.1333	0	103.1333
8.5333	2.3913	103.3174	0	103.3174
8.5667	2.3923	103.6988	0	103.6988
8.6	2.3959	103.8171	0.0019	103.819
8.6333	2.3979	104.0407	0	104.0407
8.6667	2.4005	104.422	0	104.422
8.7	2.4035	104.422	0	104.422
8.7333	2.4008	104.777	0.0006	104.7776
8.7667	2.4064	105.0663	0.0006	105.0669



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
8.8	2.4068	105.5266	0.0006	105.5272
8.8333	2.4094	105.5923	0.0000	105.5923
8.8667	2.4104	105.8816	0.0006	105.8822
8.9	2.4074	106.263	0.0006	106.2636
8.9333	2.4087	106.3419	0	106.3419
8.9667	2.4107	106.4734	0.0006	106.474
9	2.4127	106.8679	0.0006	106.8684
9.0333	2.4153	107.1177	0.0019	107.1196
9.0667	2.417	107.3412	0.0006	107.3418
9.1	2.417	107.6437	0	107.6437
9.1333	2.4196	107.6568	0.0006	107.6574
9.1667	2.4186	108.1565	0	108.1565
9.2	2.4179	108.1039	0	108.1039
9.2333	2.4209	108.5116	0	108.5116
9.2667	2.4186	108.7877	0	108.7877
9.3	2.4235	109.0639	0	109.0639
9.3333	2.4225	109.1559	0.0006	109.1565
9.3667	2.4219	109.3137	0	109.3137
9.4	2.4186	109.3663	0	109.3663
9.4333	2.4235	109.4583	0.0006	109.4589
9.4667	2.4193	109.958	0	109.958
9.5 9.5333	2.4212 2.4206	109.958 110.2868	0.0006	109.958 110.2874
9.5667	2.4209	110.484	0.0006	110.2874
9.6	2.4199	110.444	0.0008	110.4848
9.6333	2.4199	110.7339	0	110.7339
9.6667	2.4209	111.1021	0	111.1021
9.7	2.4229	111.3782	0.0006	111.3788
9.7333	2.4189	111.444	0.0006	111.4446
9.7667	2.4206	111.4045	0.0019	111.4064
9.8	2.4232	111.9436	0	111.9436
9.8333	2.4202	111.9305	0.0006	111.9311
9.8667	2.4239	112.1277	0	112.1277
9.9	2.4186	112.3907	0.0006	112.3913
9.9333	2.4202	112.588	0	112.588
9.9667	2.4209	112.7458	0	112.7458
10	2.4183	113.0219	0.0006	113.0225
10.0333	2.4216	113.2981	0.0006	113.2987
10.0667	2.415	113.2192	0	113.2192
10.1	2.4186	113.5479	0	113.5479
10.1333	2.4163	113.6531	0	113.6531
10.1667 10.2	2.412 2.4133	113.8898 113.9687	0.0006	113.8898 113.9693
10.2	2.4133	113.9687		114.1265
10.2333	2.4146	114.1265	0	114.1265



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
10.2667	2.415	114.3895	0	114.3895
10.3	2.4146	114.5604	0	114.5604
10.3333	2.411	114.784	0	114.784
10.3667	2.4127	115.1127	0	115.1127
10.4	2.413	115.1653	0	115.1653
10.4333	2.412	115.3626	0	115.3626
10.4667	2.4114	115.6387	0.0019	115.6406
10.5	2.4091	115.6124	0	115.6124
10.5333	2.41	115.9149	0.0006	115.9155
10.5667	2.4104	116.0727	0.0019	116.0746
10.6	2.4071	116.1516	0	116.1516
10.6333	2.411	116.3357	0.0006	116.3363
10.6667	2.4048	116.5329	0	116.5329
10.7	2.4058	116.6776	0.0006	116.6782
10.7333	2.4061	116.7433	0.0019	116.7433
10.7667 10.8	2.4058 2.4054	117.0589 117.1509	0.0019	117.0608 117.1515
10.8333	2.4012	117.1309	0.0008	117.1313
10.8667	2.4012	117.4402	0	117.4402
10.3007	2.4012	117.7032	0	117.7032
10.9333	2.3995	117.6243	0	117.6243
10.9667	2.3995	117.8479	0.0019	117.8498
11	2.3975	117.9662	0.0006	117.9668
11.0333	2.3969	118.1503	0.0006	118.1509
11.0667	2.3979	118.2161	0.0006	118.2167
11.1	2.3998	118.5054	0.0006	118.506
11.1333	2.4015	118.6895	0	118.6895
11.1667	2.4005	118.7947	0	118.7947
11.2	2.4038	118.8341	0	118.8341
11.2333	2.4002	119.1497	0	119.1497
11.2667	2.3995	119.1629	0	119.1629
11.3	2.3982	119.3338	0	119.3338
11.3333	2.4012	119.3733	0.0006	119.3738
11.3667	2.3965	119.6625	0	119.6625
11.4	2.4008	119.6231	0.0006	119.6237
11.4333 11.4667	2.4008	119.7809 120.0307	0.0006	119.7815 120.0313
11.4667	2.4018	120.0307	0.0009	120.0313
11.5333	2.4035	120.2806	0.0019	120.131
11.5667	2.4033	120.3858	0.0006	120.2864
11.6	2.4035	120.491	0.0000	120.491
11.6333	2.4015	120.7277	0	120.7277
11.6667	2.4015	120.7277	0	120.7277
11.7	2.4041	120.6882	0	120.6882



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
(,	(1001)	(2.111)	(2.111)	(2. 171)
11.7333	2.4018	121.0038	0	121.0038
11.7667	2.4008	121.2142	0.0006	121.2148
11.8	2.3998	121.3852	0.0006	121.3858
11.8333	2.3933	121.5167	0.0006	121.5173
11.8667	2.3936	121.5956	0	121.5956
11.9	2.3919	121.7008	0	121.7008
11.9333 11.9667	2.3903 2.3867	121.9243 122.0558	0.0006	121.9243 122.0564
12	2.3893	121.9506	0.0008	121.9506
12.0333	2.389	122.2925	0	122.2925
12.0667	2.3893	122.424	0	122.424
12.1	2.3886	122.5818	0.0006	122.5824
12.1333	2.3844	122.6344	0	122.6344
12.1667	2.385	122.7001	0	122.7001
12.2	2.3857	122.9368	0	122.9368
12.2333	2.3827	123.0157	0	123.0157
12.2667	2.3824	123.1998	0	123.1998
12.3	2.3814	123.4365	0	123.4365
12.3333	2.3814	123.3708	0.0006	123.3714
12.3667	2.3847	123.6601 123.5943	0.0019 0.0006	123.662 123.5949
12.4 12.4333	2.3817 2.3834	123.8705	0.0006	123.8711
12.4667	2.3844	123.8573	0.0008	123.8573
12.5	2.385	123.9625	0	123.9625
12.5333	2.3844	124.3702	0.0006	124.3708
12.5667	2.384	124.4228	0.0006	124.4233
12.6	2.387	124.5148	0	124.5148
12.6333	2.3863	124.4754	0	124.4754
12.6667	2.389	124.6989	0.0006	124.6995
12.7	2.3863	124.883	0.0006	124.8836
12.7333 12.7667	2.3919	124.9224	0.0006	124.923 125.0013
12.7667	2.3923	125.0013 125.1065	0	125.1065
12.8333	2.3919	125.1003	0	125.0934
12.8667	2.3923	125.4353	0	125.4353
12.9	2.3969	125.5273	0.0006	125.5279
12.9333	2.3982	125.7509	0	125.7509
12.9667	2.4002	125.8955	0.0006	125.8961
13	2.4002	126.0139	0	126.0139
13.0333	2.4008	126.0402	0.0006	126.0408
13.0667	2.3989	126.2374	0.0006	126.238
13.1	2.4002	126.3032	0.0006	126.3038
13.1333	2.4028	126.2637	0	126.2637
13.1667	2.3989	126.5662	0	126.5662



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
13.2	2.4012	126.4347	0	126.4347
13.2333	2.4041	126.7766	0.0019	126.7785
13.2667	2.4005	126.8292	0.0006	126.8298
13.3	2.4035	126.8686	0.0006	126.8692
13.3333	2.3995	127.0264	0	127.0264
13.3667	2.3982	127.2368	0.0019	127.2387
13.4	2.3962	127.3025	0	127.3025
13.4333	2.3959	127.3814	0.0006	127.382
13.4667	2.3989	127.5655	0	127.5655
13.5	2.3952	127.5787	0	127.5787
13.5333	2.3959	127.605	0	127.605
13.5667	2.3989	127.8285	0.0006	127.8285 127.8686
13.6 13.6333	2.3959 2.3956	127.868 128.1178	0.0006	128.1184
13.6667	2.3959	128.3019	0.0006	128.3025
13.7	2.3972	128.1441	0.0006	128.1447
13.7333	2.3962	128.2493	0.0000	128.2493
13.7667	2.3979	128.5386	0.0006	128.5392
13.7667	2.3998	128.4597	0.0006	128.4603
13.8333	2.3975	128.6307	0.0019	128.6326
13.8667	2.3995	128.6701	0.0015	128.6701
13.9	2.4002	128.8411	0	128.8411
13.9333	2.4035	128.7359	0.0006	128.7365
13.9667	2.4002	128.8411	0	128.8411
14	2.4021	128.8937	0.0019	128.8956
14.0333	2.4038	129.2619	0	129.2619
14.0667	2.4008	129.1567	0.0006	129.1573
14.1	2.4008	129.3408	0	129.3408
14.1333	2.3998	129.1435	0.0019	129.1454
14.1667	2.4008	129.5249	0	129.5249
14.2	2.3982	129.6958	0	129.6958
14.2333	2.4015	129.7615	0	129.7615
14.2667	2.3475	129.8404	0	129.8404
14.3	2.1188	129.801	0	129.801
14.3333	1.9065	129.6958	0.0006	129.6964
14.3667	1.7067	129.3013	0.0006	129.3019
14.4	1.5339	129.0515	0.0019	129.0534
14.4333	1.3759	128.7753	0.0006	128.7759
14.4667	1.2304	128.3545	0	128.3545
14.5	1.104	127.7496	0	127.7496
14.5333	0.9892	127.171	0.0006	127.1716
14.5667	0.8888	126.461	0.0019	126.4629
14.6	0.7933	125.7772	0.0019	125.7791
14.6333	0.7137	125.2643	0.0006	125.2649



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
14.6667	0.6386	124.2781	0.0019	124.28
14.7	0.5692	123.6075	0.0006	123.6081
14.7333	0.5109	122.7133	0.0006	122.7139
14.7667	0.4556	122.0689	0.0006	122.0695
14.8	0.4109	121.2537	0.0006	121.2543
14.8333	0.3645	120.3595	0.0006	120.3601
14.8667	0.3296	119.2681	0	119.2681
14.9	0.295	118.558	0	118.558
14.9333	0.269	117.7295	0.0006	117.7301
14.9667	0.2391	116.454	0.0006	116.4546
15	0.2187	115.6387	0	115.6387
15.0333	0.1986	114.521	0.0006	114.5216
15.0667 15.1	0.1805 0.166	113.64 112.8247	0.0006 0.0019	113.6406 112.8266
15.1333	0.1499	111.7859	0.0019	111.7859
15.1667	0.1377	110.7339	0	110.7339
15.2	0.1206	109.6687	0	109.6687
15.2333	0.1101	108.722	0	108.722
15.2667	0.1005	107.7357	0	107.7357
15.3	0.0867	106.9204	0	106.9204
15.3333	0.0778	105.7633	0.0006	105.7639
15.3667	0.0692	104.777	0	104.777
15.4	0.0581	103.896	0.0006	103.8966
15.4333	0.0518	102.9098	0	102.9098
15.4667	0.0426	101.9236	0	101.9236
15.5	0.039	100.9242	0	100.9242
15.5333	0.0334	100.0037	0.0019	100.0056
15.5667	0.0222	98.9386	0.0019	98.9405
15.6	0.0176	98.0181	0.0006	98.0187
15.6333	0.011	97.1633	0	97.1633
15.6667 15.7	0.008	96.1245 95.1383	0.0006	96.1251 95.1389
15.7333	0.0021	94.1784	0.0008	94.1803
15.7667	-0.0048	93.2842	0.0006	93.2848
15.8	-0.0081	92.2979	0.0019	92.2999
15.8333	-0.0104	91.3643	0.0015	91.3643
15.8667	-0.0137	90.4833	0.0019	90.4852
15.9	-0.0186	89.6285	0.0019	89.6305
15.9333	-0.0206	88.5897	0.0019	88.5916
15.9667	-0.0232	87.6429	0.0006	87.6435
16	-0.0269	86.8277	0.0006	86.8283
16.0333	-0.0279	85.894	0.0006	85.8946
16.0667	-0.0325	84.9341	0.0019	84.936
16.1	-0.0308	83.961	0	83.961



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
16.1333	-0.0318	83.1983	0.0006	83.1989
16.1667	-0.0305	82.1464	0.0006	82.1469
16.2	-0.0341	81.2522	0.0019	81.2541
16.2333	-0.0348	80.3843	0.0006	80.3849
16.2667	-0.0311	79.4375	0.0006	79.4381
16.3	-0.0364	78.5565	0.0006	78.5571
16.3333	-0.0361	77.6623	0.0006	77.6629
16.3667	-0.0381	76.6629	0	76.6629
16.4	-0.0364	75.7424	0.0019	75.7443
16.4333 16.4667	-0.0407	75.006	0 0010	75.006
16.4667	-0.0413 -0.0436	74.0461 73.1125	0.0019 0.0006	74.048 73.1131
16.5333	-0.0430	72.2315	0.0006	72.2321
16.5667	-0.044	71.3373	0.0000	71.3373
16.6	-0.0423	70.3905	0.0006	70.3911
16.6333	-0.0417	69.6541	0.0006	69.6547
16.6667	-0.0433	68.7205	0.0006	68.7211
16.7	-0.0433	67.9183	0.0006	67.9189
16.7333	-0.044	66.9321	0	66.9321
16.7667	-0.0453	66.0905	0.0019	66.0924
16.8	-0.0446	65.2095	0	65.2095
16.8333	-0.0492	64.4731	0	64.4731
16.8667	-0.0456	63.5132	0.0006	63.5138
16.9	-0.0479	62.7111	0.0006	62.7116
16.9333 16.9667	-0.0476 -0.0499	61.9221 60.9621	0.0006 0.0006	61.9227 60.9627
17	-0.0499	60.1337	0.0008	60.3627
17.0333	-0.0469	59.371	0.0019	59.3729
17.0667	-0.0479	58.4768	0.0019	58.4788
17.1	-0.0489	57.6616	0	57.6616
17.1333	-0.0453	56.7805	0.0019	56.7824
17.1667	-0.0469	56.0047	0.0006	56.0053
17.2	-0.0453	55.2026	0.0019	55.2045
17.2333	-0.0492	54.4004	0.0006	54.401
17.2667	-0.0489	53.5588	0	53.5588
17.3	-0.0469	52.6778	0	52.6778
17.3333	-0.0473	51.9283	0	51.9283
17.3667	-0.0473	51.1393	0	51.1393
17.4 17.4333	-0.0463	50.2977	0.0006	50.2983
17.4333	-0.0486 -0.0489	49.5613 48.7197	0.0006	49.5613 48.7203
17.4667	-0.0489	48.036	0.0006	48.0366
17.5333	-0.0506	47.247	0.0000	47.247
17.5667	-0.045	46.4448	0	46.4448



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
		, ,		
17.6	-0.0502	45.6427	0	45.6427
17.6333	-0.0423	44.8143	0.0006	44.8149
17.6667	-0.0463	44.1305	0	44.1305
17.7	-0.0489	43.3284	0.0019	43.3303
17.7333	-0.0423	42.5131	0.0006	42.5137
17.7667	-0.045	41.7767	0.0019	41.7786
17.8 17.8333	-0.0443 -0.0436	41.0403 40.3039	0.0019 0.0006	41.0422 40.3045
17.8667	-0.0436	39.5149	0.0006	39.5149
17.8667	-0.044	38.8574	0.0006	38.858
17.9333	-0.045	38.1211	0.0000	38.1211
17.9667	-0.0466	37.3584	0.0006	37.359
18	-0.0456	36.6351	0.0019	36.6371
18.0333	-0.0456	35.9119	0.0019	35.9138
18.0667	-0.0473	35.2544	0.0006	35.255
18.1	-0.0456	34.5575	0	34.5575
18.1333	-0.0453	33.8211	0.0006	33.8217
18.1667	-0.0476	33.0716	0	33.0716
18.2	-0.0446	32.4404	0.0019	32.4423
18.2333	-0.0456	31.7566	0.0006	31.7572
18.2667	-0.043	31.0991	0	31.0991
18.3	-0.0436	30.389	0.0006	30.3896
18.3333	-0.044	29.6789	0.0006	29.6795
18.3667	-0.0446	29.0083	0.0019	29.0102
18.4 18.4333	-0.0433 -0.0436	28.3377 27.7065	0.0006 0.0006	28.3383 27.7071
18.4667	-0.0430	27.0753	0.0006	27.7071
18.5	-0.0417	26.4836	0.0000	26.4836
18.5333	-0.044	25.8129	0	25.8129
18.5667	-0.04	25.1949	0.0019	25.1968
18.6	-0.042	24.5242	0	24.5242
18.6333	-0.0397	23.972	0.0006	23.9726
18.6667	-0.0404	23.3408	0	23.3408
18.7	-0.0423	22.6964	0.0006	22.697
18.7333	-0.0427	22.1573	0.0019	22.1592
18.7667	-0.0394	21.5656	0	21.5656
18.8	-0.042	20.9738	0.0006	20.9744
18.8333	-0.0394	20.3952	0.0006	20.3958
18.8667 18.9	-0.0358	19.7903 19.2512	0.0006	19.7903 19.2518
18.9333	-0.0384 -0.0397	18.6726	0.0008	18.6745
18.9667	-0.0397	18.0809	0.0019	18.0815
19.3007	-0.041	17.5286	0.0000	17.5286
19.0333	-0.0423	17.0026	0.0006	17.0032
	0.0 123	17.0020	0.0000	20052



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
19.0667	-0.0397	16.4766	0	16.4766
19.1	-0.0394	15.9243	0	15.9243
19.1333	-0.039	15.4246	0	15.4246
19.1667	-0.0384	14.8986	0.0019	14.9006
19.2	-0.0374	14.4253	0.0019	14.4272
19.2333 19.2667	-0.0387	13.9387 13.4653	0.0006	13.9387 13.4659
19.2007	-0.0413 -0.0354	12.9262	0.0006	12.9268
19.3333	-0.0354	12.4528	0.0006	12.4534
19.3667	-0.0358	12.1109	0.0006	12.1115
19.4	-0.0364	11.5718	0.0019	11.5737
19.4333	-0.0358	11.1773	0.0006	11.1779
19.4667	-0.0371	10.7959	0.0006	10.7965
19.5	-0.0371	10.3225	0.0000	10.3225
19.5333	-0.0344	9.9149	0.0006	9.9155
19.5667	-0.0364	9.5862	0.0006	9.5867
19.6	-0.0351	9.1259	0.0006	9.1265
19.6333	-0.0354	8.784	0.0006	8.7846
19.6667	-0.0334	8.429	0	8.429
19.7	-0.0341	8.1265	0.0019	8.1284
19.7333	-0.0318	7.7583	0.0006	7.7589
19.7667	-0.0308	7.4822	0	7.4822
19.8	-0.0325	7.1272	0.0006	7.1278
19.8333	-0.0351	6.8379	0.0006	6.8385
19.8667	-0.0305	6.5749	0.0006	6.5755
19.9	-0.0315	6.2987	0	6.2987
19.9333	-0.0288	6.0357	0.0006	6.0363
19.9667	-0.0341	5.7596	0.0006	5.7602
20	-0.0325	5.4834	0.0006	5.484
20.0333	-0.0298 -0.0318	5.2599 5.0889	0.0019	5.2618
20.0667	-0.0318	4.8785	0	5.0889 4.8785
20.1333	-0.0333	4.6419	0.0006	4.6425
20.1553	-0.0331	4.4315	0.0000	4.4315
20.2	-0.0311	4.2474	0	4.2474
20.2333	-0.0315	4.0764	0	4.0764
20.2667	-0.0298	3.8266	0	3.8266
20.3	-0.0305	3.6951	0	3.6951
20.3333	-0.0321	3.5767	0	3.5767
20.3667	-0.0305	3.4584	0	3.4584
20.4	-0.0318	3.248	0.0019	3.2499
20.4333	-0.0318	3.1165	0.0006	3.1171
20.4667	-0.0315	2.9587	0.0006	2.9593
20.5	-0.0298	0.0131	0.0006	0.0137



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
20.5333	-0.0318	0.0263	0	0.0263
20.5667	-0.0279	0	0.0019	0.0019
20.6	-0.0308	0.0131	0.0006	0.0137
20.6333	-0.0305	0.0131	0	0.0131
20.6667	-0.0292	0.0131	0	0.0131
20.7	-0.0308	0	0	0
20.7333	-0.0285 -0.0315	0.0263 0.0131	0.0019	0.0282 0.0131
20.7667	-0.0313	0.0131	0	0.0131
20.8333	-0.0298	0	0	0
20.8667	-0.0298	0.0131	0.0006	0.0137
20.9	-0.0302	0.0131	0.0006	0.0137
20.9333	-0.0321	0.0131	0.0006	0.0137
20.9667	-0.0279	0	0	0
21	-0.0272	0	0	0
21.0333	-0.0295	0.0131	0.0019	0.0151
21.0667	-0.0295	0.0131	0.0006	0.0137
21.1 21.1333	-0.0298 -0.0272	0.0131	0.0019 0.0006	0.0151 0.0006
21.1333	-0.0272	0.0131	0.0008	0.0006
21.2	-0.0292	0.0131	0.0032	0.0164
21.2333	-0.0295	0.0131	0	0.0131
21.2667	-0.0269	0.0131	0	0.0131
21.3	-0.0269	0.0131	0.0006	0.0137
21.3333	-0.0259	0.0131	0	0.0131
21.3667	-0.0272	0.0131	0.0006	0.0137
21.4	-0.0288	0.0131	0.0006	0.0137
21.4333	-0.0288	0.0131	0	0.0131
21.4667 21.5	-0.0255 -0.0272	0.0131 0.0131	0.0006	0.0137 0.0137
21.5333	-0.0272	0.0131	0.0006	0.0006
21.5667	-0.0269	0.0131	0	0.0131
21.6	-0.0252	0.0131	0	0.0131
21.6333	-0.0295	0.0131	0.0019	0.0151
21.6667	-0.0265	0.0263	0	0.0263
21.7	-0.0288	0.0131	0.0006	0.0137
21.7333	-0.0298	0	0	0
21.7667	-0.0292	0.0263	0.0006	0.0269
21.8	-0.0288	0.0263	0.0006	0.0269
21.8333 21.8667	-0.0265 -0.0275	0.0131 0.0131	0.0019 0.0019	0.0151 0.0151
21.8667	-0.0275	0.0131	0.0019	0.0131
21.9333	-0.0242	0.0131	0	0.0131
21.9667	-0.0246	0.0263	0	0.0263



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
22	-0.0285	0.0131	0.0006	0.0137
22.0333	-0.0242	0.0131	0.0019	0.0151
22.0667	-0.0272	0.0131	0.0015	0.0131
22.1	-0.0259	0.0131	0	0.0131
22.1333	-0.0292	0.0131	0	0.0131
22.1667	-0.0242	0.0131	0	0.0131
22.2	-0.0295	0.0131	0	0.0131
22.2333	-0.0308	0.0263	0.0019	0.0282
22.2667	-0.0311	0.0131	0	0.0131
22.3	-0.0265	0	0.0006	0.0006
22.3333	-0.0269	0.0131	0	0.0131
22.3667	-0.0275	0	0	0
22.4	-0.0249	0.0131	0	0.0131
22.4333	-0.0265	0.0131	0.0019	0.0151
22.4667 22.5	-0.0305 -0.0275	0.0131 0.0131	0.0019	0.0131 0.0151
22.5333	-0.0273	0.0131	0.0019	0.0131
22.5667	-0.0262	0.0131	0.0006	0.0137
22.6	-0.0279	0.0131	0.0000	0.0137
22.6333	-0.0249	0.0131	0.0006	0.0137
22.6667	-0.0272	0.0131	0.0006	0.0137
22.7	-0.0302	0	0.0006	0.0006
22.7333	-0.0186	0.0263	0.0006	0.0269
22.7667	-0.0239	0	0.0006	0.0006
22.8	-0.0242	0	0.0006	0.0006
22.8333	-0.0255	0.0263	0.0006	0.0269
22.8667	-0.0223	0.0131	0.0019	0.0151
22.9	-0.0236	0	0	0
22.9333	-0.0292	0.0263	0.0006	0.0269
22.9667	-0.0285	0	0	0
23 23.0333	-0.0295 -0.0285	0.0131 0.0263	0	0.0131
23.0667	-0.0283	0.0263	0.0006	0.0269
23.1	-0.0288	0.0131	0.0006	0.0203
23.1333	-0.0259	0.0131	0	0.0131
23.1667	-0.0265	0	0.0006	0.0006
23.2	-0.0295	0.0263	0	0.0263
23.2333	-0.0292	0.0131	0	0.0131
23.2667	-0.0285	0.0263	0	0.0263
23.3	-0.0282	0.0263	0	0.0263
23.3333	-0.0262	0	0.0019	0.0019
23.3667	-0.0311	0.0131	0	0.0131
23.4	-0.0285	0.0131	0.0019	0.0151
23.4333	-0.0262	0.0131	0	0.0131



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
23.4667	-0.0279	0.0131	0.0019	0.0151
23.5	-0.0236	0	0	0
23.5333	-0.0269	0.0131	0	0.0131
23.5667	-0.0246	0.0131	0.0006	0.0137
23.6	-0.0242	0.0131	0	0.0131
23.6333	-0.0279	0.0131	0.0006	0.0137
23.6667	-0.0298	0.0131	0.0006	0.0137
23.7	-0.0255	0.0131	0.0006	0.0137
23.7333	-0.0295	0	0.0006	0.0006
23.7667	-0.0285	0.0131	0.0019	0.0151
23.8 23.8333	-0.0279 -0.0282	0.0131	0.0006	0.0137
23.8667	-0.0282	0.0131 0.0131	0.0019 0.0019	0.0151 0.0151
23.9	-0.0288	0.0131	0.0006	0.0131
23.9333	-0.0282	0.0131	0.0000	0.0137
23.9667	-0.0285	0.0131	0	0.0131
24	-0.02	0.0263	0.0006	0.0269
24.0333	0.0528	0	0	0
24.0667	0.1469	0.0263	0.0006	0.0269
24.1	0.2312	0.0131	0	0.0131
24.1333	0.3062	0.0131	0.0006	0.0137
24.1667	0.3776	0.0131	0	0.0131
24.2	0.4458	0.0131	0.0006	0.0137
24.2333	0.509	9.31	0.0006	9.3106
24.2667	0.5722	10.5855	0.0019	10.5874
24.3	0.6275	11.769	0.0019	11.7709
24.3333 24.3667	0.6827	12.8604	0.0006	12.861
24.3667	0.7334 0.7841	13.9913 15.0564	0.0008	13.9919 15.0564
24.4333	0.8341	16.0558	0.0006	16.0564
24.4667	0.8789	16.9894	0.0006	16.99
24.5	0.9181	17.9494	0.0006	17.95
24.5333	0.9628	18.883	0.0019	18.8849
24.5667	0.9994	19.7772	0	19.7772
24.6	1.0382	20.6056	0	20.6056
24.6333	1.0731	21.4735	0.0019	21.4754
24.6667	1.108	22.2362	0.0006	22.2368
24.7	1.1409	23.0252	0	23.0252
24.7333	1.1768	23.8273	0.0006	23.8279
24.7667	1.2113	24.5768	0.0006	24.5774
24.8	1.2436	25.2475	0.0019	25.2494
24.8333 24.8667	1.2729 1.3081	26.0891 26.7597	0.0006	26.0897 26.7597
24.8667	1.3081	26.7597	0	25.7597
24.9	1.33//	27.404	0	27.404



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
24.9333	1.3657	28.0878	0	28.0878
24.9555	1.3924	28.7453	0.0006	28.7459
25	1.4223	29.4554	0.0006	29.456
25.0333	1.4506	30.126	0.0006	30.1266
25.0667	1.4766	30.7309	0	30.7309
25.1	1.4977	31.3095	0.0006	31.3101
25.1333	1.528	32.0196	0.0006	32.0202
25.1667	1.5457	32.5587	0	32.5587
25.2	1.5704	33.2031	0.0006	33.2037
25.2333	1.5931	33.7816	0.0019	33.7836
25.2667	1.6149	34.3602	0.0019	34.3622
25.3	1.6372	34.9914	0.0019	34.9933
25.3333	1.6613	35.5569	0	35.5569
25.3667	1.678	36.0697	0.0006	36.0703
25.4	1.7004 1.7172	36.6746	0	36.6746
25.4333 25.4667	1.7172	37.2926 37.766	0.0019	37.2926 37.7679
25.4667	1.7416	38.3183	0.0019	38.3202
25.5333	1.7778	38.8574	0.0019	38.8594
25.5667	1.7959	39.436	0.0019	39.4379
25.6	1.8143	39.8831	0	39.8831
25.6333	1.8308	40.4354	0	40.4354
25.6667	1.8466	40.9877	0.0019	40.9896
25.7	1.8617	41.4348	0.0006	41.4354
25.7333	1.8798	41.9213	0	41.9213
25.7667	1.8956	42.3684	0	42.3684
25.8	1.9124	42.855	0.0006	42.8556
25.8333	1.9288	43.2495	0	43.2495
25.8667	1.9387	43.8017	0.0019	43.8037
25.9	1.9575	44.2094	0.0006	44.21
25.9333 25.9667	1.9723 1.9888	44.7222 45.1562	0.0006	44.7228 45.1568
25.9667	2.0006	45.5507	0.0009	45.5526
26.0333	2.0174	45.9977	0.0006	45.9983
26.0667	2.0296	46.4317	0.0006	46.4323
26.1	2.0417	46.8262	0.0006	46.8268
26.1333	2.0556	47.2996	0.0006	47.3002
26.1667	2.0651	47.6809	0	47.6809
26.2	2.077	48.1675	0.0006	48.168
26.2333	2.0895	48.483	0.0032	48.4863
26.2667	2.0997	49.0353	0.0006	49.0359
26.3	2.1086	49.4035	0	49.4035
26.3333	2.1171	49.6928	0	49.6928
26.3667	2.1309	50.1531	0.0006	50.1537



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
26.4	2.1388	50.5607	0.0019	50.5626
26.4333	2.1497	50.8763	0.0006	50.8769
26.4667	2.1606	51.4286	0.0006	51.4292
26.5	2.1717	51.7573	0	51.7573
26.5333	2.1859	52.0729	0	52.0729
26.5667	2.1971	52.4543	0.0006	52.4549
26.6	2.2099	52.8882	0.0006	52.8888
26.6333	2.2247	53.2958	0	53.2958
26.6667	2.2359	53.664	0	53.664
26.7	2.2455	54.0848	0	54.0848
26.7333	2.2573	54.4004	0	54.4004
26.7667	2.2675	54.8081	0	54.8081
26.8	2.2758	55.3209	0	55.3209
26.8333	2.2827	55.5576	0.0006	55.5582
26.8667	2.2883	55.9784	0.0006	55.979
26.9	2.2978	56.3203	0.0019	56.3222
26.9333	2.3064	56.6622	0.0006	56.6628
26.9667	2.3106	57.175 57.438	0	57.175
27 27.0333	2.3182 2.3287	57.7668	0.0006	57.438 57.7674
27.0667	2.3376	58.1481	0.0008	58.1481
27.0007	2.3413	58.5557	0	58.5557
27.1333	2.3413	58.7661	0	58.7661
27.1667	2.3564	59.2658	0.0019	59.2677
27.2	2.36	59.5814	0.0019	59.5833
27.2333	2.3643	59.897	0.0006	59.8976
27.2667	2.3692	60.2915	0.0006	60.2921
27.3	2.3735	60.5413	0.0032	60.5446
27.3333	2.3804	60.949	0.0006	60.9496
27.3667	2.3857	61.1331	0.0019	61.135
27.4	2.3903	61.475	0.0006	61.4756
27.4333	2.3952	61.9352	0.0006	61.9358
27.4667	2.3969	62.2508	0.0006	62.2514
27.5	2.4005	62.5664	0	62.5664
27.5333	2.4074	62.8425	0.0019	62.8445
27.5667	2.4071	63.237	0.0006	63.2376
27.6	2.414	63.4606	0	63.4606
27.6333	2.4143	63.8419	0.0006	63.8425
27.6667	2.4196	64.0918	0.0006	64.0924
27.7	2.4212	64.3153	0	64.3153
27.7333	2.4229	64.6835	0	64.6835
27.7667	2.4252	64.9728	0.0019	64.9747
27.8	2.4328	65.2621	0.0006	65.2627
27.8333	2.4331	65.5645	0.0019	65.5665



Project No. G100982213SAT-003

Time	Ch 1 dP	•	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
27.8667	2.4347	65.7092	0	65.7092
27.9	2.4357	66.1168	0	66.1168
27.9333	2.4249	66.5508	0	66.5508
27.9667	2.3929	67.1031	0.0019	67.105
28	2.3396	68.0893	0.0006	68.0899
28.0333	2.2807	69.1018	0	69.1018
28.0667	2.2224	70.0354	0	70.0354
28.1	2.1717	71.0217	0.0006	71.0223
28.1333	2.1207	71.7975	0.0006	71.7981
28.1667	2.0776	72.6128	0.0019	72.6147
28.2 28.2333	2.0444	73.336 73.8752	0.0006	73.3366 73.8758
28.2667	1.9888	74.4538	0.0006	74.4544
28.3	1.9697	75.1638	0.0019	75.1658
28.3333	1.9483	75.7556	0.0006	75.7562
28.3667	1.9331	76.321	0	76.321
28.4	1.9285	76.9522	0.0006	76.9528
28.4333	1.9279	77.3993	0	77.3993
28.4667	1.9288	77.8595	0.0006	77.8601
28.5	1.9331	78.5302	0.0006	78.5308
28.5333	1.9358	78.9247	0	78.9247
28.5667	1.9414	79.5427	0.0006	79.5433
28.6	1.9516	80.1213	0.0019	80.1232
28.6333	1.9627	80.6867	0.0019	80.6886
28.6667	1.9743	81.1996	0.0006	81.2002
28.7	1.9861	81.6072	0	81.6072
28.7333 28.7667	1.997 2.0069	82.1727 82.8433	0.0006	82.1732 82.8433
28.8	2.0138	83.2246	0	83.2246
28.8333	2.0289	83.8032	0.0019	83.8051
28.8667	2.0384	84.2898	0.0019	84.2917
28.9	2.0421	84.8683	0.0006	84.8689
28.9333	2.047	85.4075	0.0006	85.4081
28.9667	2.0556	85.9466	0.0006	85.9472
29	2.0612	86.4858	0.0006	86.4864
29.0333	2.0684	86.9723	0	86.9723
29.0667	2.07	87.5903	0.0006	87.5909
29.1	2.077	87.8796	0.0019	87.8815
29.1333	2.077	88.353	0	88.353
29.1667	2.0835	88.8396	0.0019	88.8415
29.2	2.0901	88.7081	0.0006	88.7087
29.2333 29.2667	2.0951 2.0997	89.3261 89.8389	0.0006	89.3261 89.8395
29.2667	2.1076	90.4175	0.0008	90.4194
29.3	2.10/0	30.41/3	0.0019	30.4134



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
29.3333	2.1082	90.8646	0.0006	90.8652
29.3333	2.1082	91.3512	0.0006	91.3518
29.3007	2.1150	91.6142	0.0008	91.6142
29.4333	2.1178	92.2716	0.0006	92.2722
29.4667	2.1201	92.6267	0.0006	92.6273
29.5	2.124	93.1395	0.0006	93.1401
29.5333	2.1303	93.6392	0.0000	93.6392
29.5667	2.1336	94.0995	0.0006	94.1001
29.6	2.1349	94.4677	0.0019	94.4696
29.6333	2.1395	95.0068	0.0019	95.0087
29.6667	2.1441	95.3092	0.0006	95.3098
29.7	2.1484	95.8352	0.0006	95.8358
29.7333	2.1494	96.3875	0	96.3875
29.7667	2.1569	96.8346	0.0019	96.8365
29.8	2.1638	97.2554	0	97.2554
29.8333	2.1704	97.7156	0.0019	97.7175
29.8667	2.1741	98.097	0.0006	98.0976
29.9	2.1806	98.7282	0	98.7282
29.9333	2.1849	99.0701	0	99.0701
29.9667	2.1885	99.5829	0.0019	99.5848
30	2.1941	99.9905	0	99.9905
30.0333	2.1964	100.2667	0	100.2667
30.0667	2.1997	100.7664	0	100.7664
30.1	2.2047	101.3187	0.0006	101.3193
30.1333	2.2093	101.5948	0.0006	101.5954
30.1667	2.2093	102.1076	0	102.1076
30.2	2.2159	102.5416	0.0019	102.5435
30.2333 30.2667	2.2139	102.9492 103.4489	0.0006	102.9492 103.4495
30.2007	2.2195	103.8829	0.0008	103.8829
30.3333	2.2182	104.2248	0.0019	104.2267
30.3667	2.2191	104.5929	0.0006	104.5935
30.4	2.2198	104.9874	0	104.9874
30.4333	2.2218	105.4477	0	105.4477
30.4667	2.2228	105.7764	0	105.7764
30.5	2.2224	106.2367	0.0006	106.2373
30.5333	2.2208	106.6312	0.0006	106.6318
30.5667	2.2228	107.1045	0.0006	107.1051
30.6	2.2247	107.3281	0	107.3281
30.6333	2.2254	107.8804	0.0019	107.8823
30.6667	2.2267	108.2354	0.0006	108.236
30.7	2.229	108.6825	0	108.6825
30.7333	2.2274	109.0507	0	109.0507
30.7667	2.2254	109.248	0.0006	109.2486



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
30.8	2.2234	109.5372	0	109.5372
30.8333	2.2257	110.0369	0	110.0369
30.8667	2.2264	110.3131	0.0019	110.315
30.9	2.2241	110.7733	0.0019	110.7752
30.9333	2.2254	111.1678	0.0019	111.1697
30.9667	2.2195	111.5623	0.0006	111.5629
31 31.0333	2.2191	111.8122 112.2198	0.0019	111.8141 112.2198
31.0667	2.2228	112.6274	0.0006	112.2198
31.1	2.2201	112.7984	0.0008	112.7984
31.1333	2.2131	113.0745	0.0019	113.0764
31.1667	2.2182	113.4164	0	113.4164
31.2	2.2188	113.7846	0.0019	113.7865
31.2333	2.2191	114.2054	0.0019	114.2073
31.2667	2.207	114.3895	0.0019	114.3914
31.3	2.2004	114.9286	0.0006	114.9292
31.3333	2.1905	114.9286	0.0006	114.9292
31.3667	2.1826	115.402	0.0019	115.4039
31.4	2.1767	115.7439	0	115.7439
31.4333	2.1635	116.0595	0.0006	116.0601
31.4667	2.1569	116.2831	0.0006	116.2837
31.5	2.1474	116.6907	0	116.6907
31.5333	2.1326	116.7959	0.0006	116.7965
31.5667	2.1257	117.0194	0	117.0194
31.6 31.6333	2.1174 2.1076	117.2298 117.5323	0.0006 0.0019	117.2304 117.5342
31.6667	2.1076	117.8742	0.00015	117.8748
31.7	2.1118	118.2029	0.0006	118.2035
31.7333	2.1224	118.3607	0.0019	118.3626
31.7667	2.1296	118.4922	0.0006	118.4928
31.8	2.1319	118.8078	0	118.8078
31.8333	2.1362	119.1892	0.0019	119.1911
31.8667	2.1395	119.3075	0.0006	119.3081
31.9	2.1434	119.7809	0.0019	119.7828
31.9333	2.1457	119.8203	0.0006	119.8209
31.9667	2.151	120.2411	0.0006	120.2417
32	2.1513	120.3463	0.0019	120.3482
32.0333	2.1553	120.491	0.0006	120.4916
32.0667	2.1602	120.9118	0.0006	120.9124
32.1	2.1592	121.0959	0 0006	121.0959
32.1333 32.1667	2.1619 2.1629	121.5167 121.5561	0.0006 0.0019	121.5173 121.558
32.1667	2.1629	121.9506	0.0019	121.558
32.2333	2.1642	122.2399	0.0006	122.2405
32.2333	2.1042	122.2333	0.0000	122.2403



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
32.2667	2.1642	122.4766	0	122.4766
32.3	2.1671	122.7659	0.0006	122.7665
32.3333	2.1648	122.8316	0.0006	122.8322
32.3667	2.1658	123.1735	0	123.1735
32.4	2.1675	123.2524	0.0019	123.2543
32.4333	2.1665	123.5154	0.0006	123.516
32.4667	2.1671	123.8705	0	123.8705
32.5	2.1675	124.1335	0	124.1335
32.5333	2.1698	124.4754	0.0006	124.4759
32.5667	2.1668	124.6068	0	124.6068
32.6	2.1694	124.7909	0.0019	124.7929
32.6333	2.1648	125.1591	0.0019	125.161
32.6667	2.1655	125.3038	0.0019	125.3057
32.7	2.1638	125.3301	0	125.3301
32.7333	2.1629	125.7377	0.0006	125.7383
32.7667	2.1632 2.1638	125.9218 126.2637	0	125.9218
32.8 32.8333	2.1638	126.2506	0.0019	126.2637 126.2525
32.8667	2.1629	126.2374	0.0019	126.2323
32.8667	2.1629	126.724	0.0008	126.724
32.9333	2.1619	126.9212	0	126.9212
32.9667	2.1615	127.2894	0.0006	127.29
33	2.1599	127.4735	0.0019	127.4754
33.0333	2.1586	127.6313	0.0006	127.6319
33.0667	2.1569	127.8811	0.0006	127.8817
33.1	2.155	128.2756	0.0006	128.2762
33.1333	2.154	128.5386	0.0006	128.5392
33.1667	2.1606	128.5518	0.0006	128.5524
33.2	2.1606	128.6701	0	128.6701
33.2333	2.1625	128.9463	0.0006	128.9469
33.2667	2.1592	129.1172	0	129.1172
33.3	2.1615	129.2882	0	129.2882
33.3333	2.1589	129.5249	0.0019	129.5268
33.3667	2.1579	129.7221	0.0006	129.7227
33.4	2.154	129.7089	0.0032	129.7122
33.4333	2.1576	129.9851	0	129.9851
33.4667	2.156	130.2086	0.0006	130.2092
33.5	2.1606	130.4059	0	130.4059
33.5333 33.5667	2.1586	130.4716 130.6952	0.0006	130.4722
	2.156		0.0006	130.6958
33.6 33.6333	2.1583 2.155	130.8267 131.1291	0.0006	130.8273 131.1297
33.6667	2.153	131.1291	0.0006	131.1297
33.7	2.1527	131.5499	0.0000	131.5499
33.7	2.1333	131.3433	U	131.3433



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
33.7333	2.1507	131.6683	0.0019	131.6702
33.7667	2.1497	131.8787	0.0019	131.8806
33.8	2.15	132.0102	0.0032	132.0134
33.8333	2.1481	132.2205	0.0006	132.2211
33.8667	2.1513	132.5887	0	132.5887
33.9	2.1457	132.5361	0.0006	132.5367
33.9333	2.1454	132.5624	0.0006	132.563
33.9667	2.1467	133.0227	0.0006	133.0233
34	2.1448	133.0227	0	133.0227
34.0333	2.1405	133.2988	0.0019	133.3007
34.0667	2.1395	133.4172	0.0006	133.4178
34.1	2.1428	133.4566	0.0006	133.4572
34.1333	2.1408	133.7196	0	133.7196
34.1667	2.1355	134.0089	0	134.0089
34.2	1.943	133.8774	0	133.8774
34.2333 34.2667	1.7307	133.93	0.0019 0	133.9319 133.6013
34.2007	1.5372 1.3657	133.6013 133.5881	0	133.5881
34.3333	1.2146	133.0358	0.0032	133.0391
34.3667	1.078	132.5887	0.0006	132.5893
34.4	0.9592	131.9707	0.0006	131.9713
34.4333	0.8565	131.379	0.0019	131.3809
34.4667	0.7657	130.4585	0	130.4585
34.5	0.6841	130.064	0.0019	130.0659
34.5333	0.6143	129.1172	0.0019	129.1191
34.5667	0.5534	128.4466	0	128.4466
34.6	0.5004	127.5129	0	127.5129
34.6333	0.4461	126.5399	0	126.5399
34.6667	0.4073	125.6588	0.0006	125.6594
34.7	0.3697	124.5542	0	124.5542
34.7333	0.3398	123.9757	0.0006	123.9763
34.7667	0.3102	122.6607	0.0006	122.6613
34.8	0.2852	121.9506	0	121.9506
34.8333	0.2634	120.754	0	120.754
34.8667	0.2443	120.0307	0	120.0307
34.9	0.2226	118.9919 118.0188	0.0006	118.9925
34.9333	0.2085	118.0188	0	118.0188
34.9667 35	0.1963 0.1815	117.0194	0	117.0194 116.1647
35.0333	0.167	115.1647	0.0019	115.1935
35.0667	0.1565	114.3238	0.0019	114.3257
35.1	0.1496	113.2849	0.0013	113.2849
35.1333	0.1413	112.2592	0.0006	112.2598
35.1667	0.1301	111.4308	0	111.4308



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
35.2	0.1222	110.3131	0	110.3131
35.2333	0.1147	109.4978	0.0032	109.501
35.2667	0.1071	108.5773	0.0006	108.5779
35.3	0.1012	107.4596	0.0006	107.4602
35.3333	0.0949	106.4339	0	106.4339
35.3667	0.0883	105.4477	0.0006	105.4483
35.4	0.0841	104.6455	0	104.6455
35.4333	0.0798	103.633	0	103.633
35.4667	0.0735	102.5021	0	102.5021
35.5	0.0679	101.5291	0.0006	101.5297
35.5333	0.065	100.8716	0	100.8716
35.5667	0.0646	99.5829	0.0006	99.5835
35.6	0.0574	98.7939	0	98.7939
35.6333	0.0577	97.926	0.0006	97.9266
35.6667	0.0541	96.9793	0.0006	96.9798
35.7	0.0525	95.9141	0	95.9141
35.7333	0.0482	94.9279	0.0006	94.9285
35.7667	0.0455	94.0074	0.0019	94.0093
35.8	0.0416	93.1132	0.0006	93.1138
35.8333	0.0409	92.2716	0.0006	92.2722
35.8667	0.0383	91.3775	0.0006	91.3781
35.9	0.0337	90.3386	0.0019	90.3405
35.9333	0.0347	89.5628	0	89.5628
35.9667	0.0307	88.5634	0	88.5634
36 36.0333	0.0294	87.5509 86.5384	0.0019	87.5528 86.5384
36.0667	0.0291	85.6573	0.0006	85.6579
36.1	0.0281	84.9341	0.0008	84.9341
36.1333	0.0232	83.9479	0.0006	83.9485
36.1667	0.0202	83.1457	0.0006	83.1463
36.2	0.0170	82.2515	0.0006	82.2521
36.2333	0.0176	81.3048	0.0006	81.3054
36.2667	0.0153	80.4632	0.0006	80.4638
36.3	0.0153	79.5427	0.0000	79.5427
36.3333	0.0153	78.5565	0.0019	78.5584
36.3667	0.0139	77.7017	0.0006	77.7023
36.4	0.0123	76.8207	0	76.8207
36.4333	0.012	76.0054	0	76.0054
36.4667	0.01	75.1244	0.0006	75.125
36.5	0.011	74.2565	0.0006	74.2571
36.5333	0.0113	73.3886	0	73.3886
36.5667	0.0093	72.4813	0	72.4813
36.6	0.0087	71.6923	0.0006	71.6929
36.6333	0.0077	70.877	0	70.877



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
36.6667	0.0047	69.996	0.0006	69.9966
36.7	0.006	69.115	0	69.115
36.7333	0.0041	68.1419	0.0006	68.1425
36.7667	-0.0005	67.3135	0.0019	67.3154
36.8	-0.0009	66.4456	0.0019	66.4475
36.8333	-0.0002	65.5645	0.0006	65.5651
36.8667	-0.0045	64.6835	0.0006	64.6841
36.9	-0.0005	63.9208	0.0006	63.9214
36.9333	-0.0018	62.9872	0.0006	62.9878
36.9667	-0.0074	62.093	0.0019	62.0949
37	-0.0051	61.3829	0.0019	61.3848
37.0333	-0.0055	60.4361	0	60.4361
37.0667 37.1	-0.0058 -0.0065	59.7524 58.8976	0.0006	59.7524 58.8982
37.1333	-0.0063	58.1218	0.0006	58.1224
37.1667	-0.0037	57.1487	0.0000	57.1487
37.2	-0.0107	56.3992	0.0019	56.4011
37.2333	-0.0084	55.7154	0	55.7154
37.2667	-0.0094	54.979	0	54.979
37.3	-0.0107	54.0191	0.0006	54.0197
37.3333	-0.0104	53.3221	0.0006	53.3227
37.3667	-0.0137	52.4411	0.0006	52.4417
37.4	-0.0137	51.6258	0	51.6258
37.4333	-0.0147	50.7842	0.0006	50.7848
37.4667	-0.017	50.061	0.0006	50.0616
37.5	-0.0163	49.2194	0.0006	49.22
37.5333	-0.0173	48.4962	0	48.4962
37.5667	-0.0173	47.7467	0.0019	47.7486
37.6	-0.0213	46.8919	0	46.8919
37.6333	-0.0176	46.1555	0.0019	46.1575
37.6667	-0.0209 -0.0216	45.3534	0.0006	45.3534
37.7 37.7333	-0.0216	44.6039 43.828	0.0008	44.6045 43.828
37.7667	-0.0136	43.0522	0.0019	43.0541
37.7007	-0.0206	42.3947	0.0019	42.3966
37.8333	-0.017	41.6189	0.0006	41.6195
37.8667	-0.0209	40.7773	0.0006	40.7779
37.9	-0.019	40.1198	0.0006	40.1204
37.9333	-0.0183	39.3834	0	39.3834
37.9667	-0.0232	38.647	0.0019	38.649
38	-0.0232	37.9896	0	37.9896
38.0333	-0.0203	37.1085	0.0019	37.1104
38.0667	-0.0209	36.5431	0	36.5431
38.1	-0.0193	35.7936	0.0006	35.7942



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
38.1333	-0.0236	35.0572	0	35.0572
38.1667	-0.0246	34.4917	0	34.4917
38.2	-0.0265	33.7422	0	33.7422
38.2333	-0.0252	33.019	0.0006	33.0196
38.2667 38.3	-0.0255 -0.0269	32.3615 31.6119	0.0019	32.3634 31.6125
38.3333	-0.0249	30.9545	0.0019	30.9564
38.3667	-0.0259	30.297	0.0015	30.297
38.4	-0.0279	29.6395	0	29.6395
38.4333	-0.0282	28.9294	0	28.9294
38.4667	-0.0295	28.2982	0.0006	28.2988
38.5	-0.0269	27.667	0.0006	27.6676
38.5333	-0.0249	27.0227	0.0006	27.0233
38.5667	-0.0252	26.3915	0.0006	26.3921
38.6	-0.0272	25.7603	0.0006	25.7609
38.6333	-0.0249	25.116	0.0006	25.1166
38.6667	-0.0279	24.5505	0	24.5505
38.7	-0.0252	23.8668	0.0006	23.8674
38.7333 38.7667	-0.0262	23.3276	0.0006	23.3282
38.8	-0.0269 -0.0265	22.749 22.131	0.0006	22.7496 22.1316
38.8333	-0.0259	21.5261	0.0019	21.528
38.8667	-0.0269	20.9475	0.0006	20.9481
38.9	-0.0279	20.3821	0.0006	20.3827
38.9333	-0.0308	19.8166	0	19.8166
38.9667	-0.0305	19.1855	0	19.1855
39	-0.0272	18.6332	0.0032	18.6364
39.0333	-0.0315	18.1203	0.0006	18.1209
39.0667	-0.0265	17.5154	0.0019	17.5174
39.1	-0.0285	17.042	0	17.042
39.1333	-0.0288	16.5161	0	16.5161
39.1667 39.2	-0.0302 -0.0279	15.9769 15.4772	0.0006 0.0006	15.9775 15.4778
39.2333	-0.0279	14.9381	0.0008	14.9381
39.2667	-0.0265	14.4253	0.0019	14.4272
39.3	-0.0305	13.9913	0.0006	13.9919
39.3333	-0.0279	13.5048	0	13.5048
39.3667	-0.0279	13.0182	0.0006	13.0188
39.4	-0.0282	12.5185	0.0006	12.5191
39.4333	-0.0279	12.0583	0.0019	12.0602
39.4667	-0.0302	11.6507	0	11.6507
39.5	-0.0259	11.2167	0	11.2167
39.5333	-0.0265	10.8091	0.0006	10.8097
39.5667	-0.0315	10.3488	0	10.3488



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
39.6	-0.0288	9.9675	0.0006	9.9681
39.6333	-0.0275	9.5599	0.0019	9.5618
39.6667	-0.0272	9.2048	0.0019	9.2067
39.7	-0.0279	8.8761	0.0019	8.878
39.7333	-0.0295	8.521	0.0006	8.5216
39.7667	-0.0285	8.1397	0.0006	8.1403
39.8	-0.0282	7.8109	0	7.8109
39.8333	-0.0282	7.5216	0.0006	7.5222
39.8667	-0.0285	7.2061	0.0006	7.2066
39.9	-0.0282	6.851	0	6.851
39.9333	-0.0305	6.6275	0	6.6275
39.9667	-0.0288	6.3382	0.0019	6.3401
40	-0.0288	6.062	0.0006	6.0626
40.0333 40.0667	-0.0305 -0.0282	5.7859	0.0006	5.7865 5.5498
40.0667	-0.0282	5.5492 5.3651	0.0006	5.3651
40.1333	-0.0233	5.0758	0.0019	5.0777
40.1667	-0.0295	4.9048	0.0006	4.9054
40.2	-0.0282	4.6945	0.0006	4.6951
40.2333	-0.0295	4.4446	0	4.4446
40.2667	-0.0302	4.2474	0.0019	4.2493
40.3	-0.0288	4.0764	0	4.0764
40.3333	-0.0269	3.9186	0.0006	3.9192
40.3667	-0.0288	3.7608	0	3.7608
40.4	-0.0262	3.5899	0.0006	3.5905
40.4333	-0.0279	3.4189	0.0032	3.4222
40.4667	-0.0269	3.3006	0.0019	3.3025
40.5	-0.0295	3.1691	0	3.1691
40.5333	-0.0269	3.0244	0.0019	3.0264
40.5667	-0.0288	0	0	0
40.6 40.6333	-0.0262 -0.0255	0.0131	0.0006	0.0137
40.6667	-0.0253	0.0131	0.0006	0.0137
40.0007	-0.0252	0.0131	0.0006	0.0137
40.7333	-0.0255	0.0131	0.0006	0.0006
40.7667	-0.0285	0	0	0
40.8	-0.0279	0	0	0
40.8333	-0.0311	0.0131	0	0.0131
40.8667	-0.0252	0	0.0006	0.0006
40.9	-0.0288	0	0	0
40.9333	-0.0272	0.0131	0.0032	0.0164
40.9667	-0.0295	0.0263	0.0019	0.0282
41	-0.0186	0.0131	0.0006	0.0137
41.0333	-0.0232	0	0.0019	0.0019



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
41.0667	-0.0183	0.0131	0	0.0131
41.1	-0.0219	0.0263	0.0019	0.0282
41.1333	-0.02	0	0.0019	0.0019
41.1667	-0.0213	0.0131	0	0.0131
41.2	-0.0275	0.0131	0.0032	0.0164
41.2333	-0.0282	0.0131	0.0006	0.0137
41.2667	-0.0232	0	0	0
41.3	-0.0249	0.0263	0	0.0263
41.3333	-0.0275	0.0263	0.0006	0.0269
41.3667	-0.0354	0.0131	0	0.0131
41.4	-0.0417	0.0131	0.0019	0.0151
41.4333 41.4667	-0.0394 -0.0354	0.0131 0.0131	0.0006	0.0137 0.0131
41.4667	-0.0334	0.0131	0.0006	0.0131
41.5333	-0.0397	0.0131	0.0000	0.0137
41.5667	-0.0413	0.0131	0.0019	0.0151
41.6	-0.04	0	0.0006	0.0006
41.6333	-0.0387	0.0131	0	0.0131
41.6667	-0.0377	0.0131	0.0006	0.0137
41.7	-0.0407	0.0263	0.0006	0.0269
41.7333	-0.0367	0	0.0006	0.0006
41.7667	-0.0354	0.0131	0.0006	0.0137
41.8	-0.0351	0.0131	0	0.0131
41.8333	-0.0331	0.0263	0.0006	0.0269
41.8667	-0.0239	0.0131	0.0019	0.0151
41.9	-0.0302	0.0131	0.0006	0.0137
41.9333	-0.0249	0.0263	0.0006	0.0269
41.9667 42	-0.0292	0.0131	0.0010	0.0131
42.0333	-0.0259 -0.0255	0.0263 0.0131	0.0019 0.0019	0.0282 0.0151
42.0553	-0.0233	0.0131	0.0019	0.0131
42.1	-0.0265	0.0131	0.0019	0.0019
42.1333	-0.0232	0	0.0019	0.0019
42.1667	-0.0275	0.0263	0	0.0263
42.2	-0.0262	0.0131	0.0006	0.0137
42.2333	-0.0288	0	0.0019	0.0019
42.2667	-0.0282	0.0131	0.0006	0.0137
42.3	-0.0269	0.0131	0.0006	0.0137
42.3333	-0.0279	0.0394	0.0006	0.04
42.3667	-0.0252	0.0263	0.0006	0.0269
42.4	-0.0275	0.0131	0.0019	0.0151
42.4333	-0.0269	0.0131	0.0019	0.0151
42.4667	-0.0242	0.0131	0	0.0131
42.5	-0.0252	0.0263	0.0006	0.0269



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
42.5333	-0.0219	0	0.0006	0.0006
42.5667	-0.0255	0	0.0019	0.0019
42.6	-0.0272	0	0.0006	0.0006
42.6333	-0.0232	0	0.0006	0.0006
42.6667	-0.0269	0.0263	0.0006	0.0269
42.7	0.0627	0	0.0019	0.0019
42.7333	0.216	0	0.0006	0.0006
42.7667	0.3457	0.0131	0.0006	0.0137
42.8	0.4622	0.0131	0	0.0131
42.8333 42.8667	0.5662	9.0996	0	9.0996
42.8667	0.6591 0.7436	11.2956 13.3338	0.0006 0.0019	11.2962 13.3357
42.9	0.7436	15.2274	0.0019	15.228
42.9667	0.8233	17.1078	0.0006	17.1084
43	0.9625	18.8304	0.0006	18.831
43.0333	1.0254	20.5136	0	20.5136
43.0667	1.0889	22.131	0	22.131
43.1	1.1435	23.709	0	23.709
43.1333	1.1942	25.1554	0.0006	25.156
43.1667	1.2456	26.6019	0.0006	26.6025
43.2	1.2963	27.9169	0.0006	27.9175
43.2333	1.3381	29.2844	0.0019	29.2864
43.2667	1.3808	30.6257	0.0019	30.6276
43.3	1.4213	31.9275	0.0006	31.9281
43.3333	1.4592	33.1505	0.0006	33.1511
43.3667	1.495	34.4917	0.0006	34.4923
43.4 43.4333	1.5326 1.5592	35.7278 36.9113	0.0006	35.7278 36.9119
43.4667	1.5944	38.0816	0.0019	38.0835
43.5	1.6241	39.2782	0.0006	39.2788
43.5333	1.655	40.3565	0.0006	40.3571
43.5667	1.681	41.4874	0.0019	41.4893
43.6	1.7083	42.5394	0.0019	42.5413
43.6333	1.738	43.6308	0.0006	43.6314
43.6667	1.763	44.6433	0.0006	44.6439
43.7	1.7853	45.7085	0.0006	45.7091
43.7333	1.8058	46.6552	0.0006	46.6558
43.7667	1.8291	47.6152	0.0006	47.6158
43.8	1.8541	48.5619	0	48.5619
43.8333	1.8749	49.3904	0.0006	49.391
43.8667	1.8989	50.2977	0.0006	50.2983 51.2182
43.9 43.9333	1.9209 1.9394	51.2182 52.0335	0.0019	52.0354
43.9667	1.9588	52.9408	0.0019	52.9414
43.3007	1.5500	32.3400	0.0006	32.3414



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
44	1.9772	53.6114	0.0006	53.612
44.0333	1.9943	54.5714	0.0019	54.5733
44.0667	2.0154	55.4524	0.0015	55.4524
44.1	2.0282	56.2677	0	56.2677
44.1333	2.0437	57.0698	0.0019	57.0717
44.1667	2.0598	57.8457	0.0019	57.8476
44.2	2.0743	58.2664	0.0006	58.267
44.2333	2.0921	59.0817	0.0006	59.0823
44.2667	2.1036	60.1337	0.0006	60.1343
44.3	2.1171	60.9753	0.0006	60.9759
44.3333	2.1237	61.7643	0.0006	61.7649
44.3667	2.1355	62.1851	0.0000	62.1851
44.4	2.1602	62.9214	0.0019	62.9234
44.4333	2.1629	63.6184	0.0015	63.6184
44.4667	2.176	64.4731	0	64.4731
44.5	2.1882	65.2489	0.0006	65.2495
44.5333	2.1994	65.9459	0.0019	65.9478
44.5667	2.2103	66.6428	0.0006	66.6434
44.6	2.2168	67.0242	0.0006	67.0248
44.6333	2.2211	68.0235	0.0006	68.0241
44.6667	2.2372	68.6021	0.0006	68.6027
44.7	2.2409	69.0624	0.0006	69.063
44.7333	2.2537	69.5621	0.0006	69.5627
44.7667	2.2616	70.1669	0	70.1669
44.8	2.2672	70.8376	0.0006	70.8382
44.8333	2.2725	71.574	0.0006	71.5746
44.8667	2.2814	72.4419	0	72.4419
44.9	2.2853	72.6654	0.0019	72.6673
44.9333	2.2988	73.4149	0.0006	73.4155
44.9667	2.3011	73.9672	0	73.9672
45	2.3083	74.4406	0	74.4406
45.0333	2.3106	75.0718	0.0032	75.075
45.0667	2.3166	75.5452	0.0006	75.5458
45.1	2.3245	75.9265	0	75.9265
45.1333	2.3297	76.6235	0.0006	76.6241
45.1667	2.335	77.3336	0.0019	77.3355
45.2	2.3386	77.8069	0.0006	77.8075
45.2333	2.3422	78.6091	0.0006	78.6097
45.2667	2.3488	78.7669	0.0019	78.7688
45.3	2.3541	79.4901	0.0006	79.4907
45.3333	2.3524	79.8714	0.0019	79.8734
45.3667	2.3626	80.4369	0.0006	80.4375
45.4	2.361	80.8182	0	80.8182
45.4333	2.3696	81.5546	0	81.5546



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
45.4667	2.3666	81.8834	0.0019	81.8853
45.5	2.3699	82.554	0.0019	82.5559
45.5333	2.3771	82.817	0.0006	82.8176
45.5667	2.3761	83.3956	0	83.3956
45.6	2.3821	83.9742	0.0006	83.9748
45.6333	2.3801	84.5396	0	84.5396
45.6667	2.384	84.9209	0.0019	84.9229
45.7	2.3923	85.2628	0.0006	85.2634
45.7333	2.3923	85.9466	0.0019	85.9485
45.7667	2.389	86.2754	0	86.2754
45.8	2.3929	86.5252	0.0006	86.5258
45.8333	2.3916	87.0381	0.0019	87.04
45.8667	2.3959	87.7876	0	87.7876
45.9	2.3942	88.1295	0	88.1295
45.9333	2.3965	88.6029	0	88.6029
45.9667	2.3972	89.1289	0.0019	89.1308
46	2.4002	89.6285	0.0006	89.6291
46.0333	2.4002	89.8258	0.0032	89.829
46.0667	2.4008	90.2992	0	90.2992
46.1	2.4035	90.8646	0	90.8646
46.1333	2.4041	90.9435	0.0006	90.9441
46.1667	2.4041	91.5484	0	91.5484
46.2	2.4041	92.0087	0.0006	92.0092
46.2333	2.4081	92.3374	0.0006	92.338
46.2667 46.3	2.4051 2.4041	92.653 93.0475	0.0006	92.6536 93.0475
46.3333	2.4041	93.5209	0	93.5209
46.3667	2.4037	94.0469	0	94.0469
46.3667	2.4054	94.3099	0.0006	94.3105
46.4333	2.412	94.6649	0.0000	94.6649
46.4667	2.4081	95.1646	0.0006	95.1652
46.5	2.4123	95.5591	0.0006	95.5597
46.5333	2.4107	95.8484	0.0006	95.849
46.5667	2.411	96.0062	0	96.0062
46.6	2.41	96.6505	0.0006	96.6511
46.6333	2.4143	96.9398	0.0006	96.9404
46.6667	2.413	97.2422	0	97.2422
46.7	2.4143	97.7156	0	97.7156
46.7333	2.4163	98.0312	0	98.0312
46.7667	2.4193	98.0444	0.0006	98.045
46.8	2.4143	98.5046	0	98.5046
46.8333	2.4176	98.9386	0	98.9386
46.8667	2.4143	99.1621	0	99.1621
46.9	2.4163	99.5829	0.0006	99.5835



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
46.9333	2.4127	00.0116	0	00.0116
46.9667	2.4127	99.9116 100.4376	0.0006	99.9116 100.4382
40.3007	2.4193	100.8979	0.0019	100.4382
47.0333	2.4219	100.6875	0.0019	100.6894
47.0667	2.4209	101.4239	0.0015	101.4239
47.1	2.4196	101.8052	0.0006	101.8058
47.1333	2.416	101.8578	0.0019	101.8597
47.1667	2.4183	102.4101	0	102.4101
47.2	2.4209	102.7388	0.0006	102.7394
47.2333	2.4193	103.0676	0	103.0676
47.2667	2.4199	103.1596	0	103.1596
47.3	2.4219	103.4095	0	103.4095
47.3333	2.4206	103.8566	0.0006	103.8572
47.3667	2.4206	103.9486	0.0019	103.9505
47.4	2.4193	104.4483	0.0019	104.4502
47.4333	2.4156	104.9743	0.0006	104.9749
47.4667	2.4209	104.8559 105.2504	0.0006	104.8565
47.5 47.5333	2.4199 2.4176	105.2504	0.0006	105.2504 105.3825
47.5667	2.4178	105.6975	0.0006	105.5825
47.6	2.4199	106.2893	0.0006	106.2899
47.6333	2.4156	106.4865	0.0006	106.4871
47.6667	2.4199	106.618	0.0019	106.6199
47.7	2.4153	106.8679	0.0006	106.8684
47.7333	2.4156	107.1308	0.0006	107.1314
47.7667	2.4127	107.2623	0.0006	107.2629
47.8	2.4153	107.6305	0	107.6305
47.8333	2.4133	107.7226	0	107.7226
47.8667	2.4133	108.1828	0.0006	108.1834
47.9	2.4156	108.6694	0.0006	108.67
47.9333	2.4123	108.5247	0.0019	108.5266
47.9667	2.4156	109.1691	0.0019	109.171
48 48.0333	2.414 2.4117	109.0244 109.2085	0.0006 0.0019	109.025 109.2104
48.0667	2.4117	109.4846	0.0019	109.2104
48.0007	2.413	109.8265	0	109.8265
48.1333	2.4068	110.0632	0	110.0632
48.1667	2.4081	110.4314	0	110.4314
48.2	2.4081	110.4051	0.0019	110.407
48.2333	2.4087	110.6681	0	110.6681
48.2667	2.4094	110.8917	0.0006	110.8923
48.3	2.4087	111.6018	0.0006	111.6024
48.3333	2.4077	111.9305	0.0006	111.9311
48.3667	2.411	111.9436	0	111.9436



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
48.4	2.4061	112.062	0.0019	112.0639
48.4333	2.4097	112.0094	0.0006	112.01
48.4667	2.4071	112.1935	0	112.1935
48.5	2.4104	112.6143	0.0019	112.6162
48.5333	2.4084	112.7195	0.0006	112.7201
48.5667	2.4077	112.9825	0.0006	112.9831
48.6	2.4074	113.0482	0.0006	113.0488
48.6333	2.4074	113.3901	0.0006	113.3907
48.6667	2.4077	113.7452	0.0006	113.7458
48.7	2.4074	113.7846	0.0019	113.7865
48.7333	2.4068	113.9424	0	113.9424
48.7667 48.8	2.4074	114.1265 114.6919	0.0006	114.1271 114.6925
48.8333	2.4074	114.8497	0.0006	114.8503
48.8667	2.4001	114.8892	0.0019	114.8911
48.9	2.4048	115.0075	0.0013	115.0075
48.9333	2.4054	115.5204	0.0019	115.5223
48.9667	2.4025	115.4415	0	115.4415
49	2.4025	115.5861	0.0006	115.5867
49.0333	2.4018	115.5993	0	115.5993
49.0667	2.4035	115.836	0.0019	115.8379
49.1	2.4025	116.1253	0.0019	116.1272
49.1333	2.4002	116.1384	0.0019	116.1403
49.1667	2.4028	116.6644	0.0006	116.665
49.2	2.3995	116.98	0.0019	116.9819
49.2333	2.3965	116.6776	0.0006	116.6782
49.2667	2.4012	116.8091	0.0006	116.8097
49.3	2.3952	117.3087	0.0006	117.3093
49.3333	2.3959	117.3482	0	117.3482
49.3667	2.3952	117.4797	0	117.4797
49.4	2.3989	117.6243	0.0006	117.6249
49.4333 49.4667	2.3962	117.8347 118.2555	0	117.8347 118.2555
49.4667	2.3926	118.2555	0.0006	118.2555
49.5333	2.3933	118.7684	0.0008	118.7684
49.5667	2.3959	118.4396	0.0006	118.4402
49.6	2.389	118.8604	0.0006	118.861
49.6333	2.3929	119.439	0.0006	119.4396
49.6667	2.3893	119.5573	0.0006	119.5579
49.7	2.3913	119.1892	0.0006	119.1898
49.7333	2.3906	119.2155	0	119.2155
49.7667	2.3942	119.7151	0	119.7151
49.8	2.3972	119.5836	0.0019	119.5856
49.8333	2.391	119.8598	0	119.8598



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
49.8667	2.3926	120.1754	0.0019	120.1773
49.9	2.3913	120.0702	0.0006	120.0708
49.9333	2.3926	120.3595	0	120.3595
49.9667 50	2.3936	120.32 120.5173	0.0006	120.3206 120.5192
50.0333	2.3952	120.8723	0.0019	120.8723
50.0667	2.389	120.8723	0.0019	120.8723
50.0007	2.3929	120.9644	0.0019	120.9663
50.1333	2.3942	121.0827	0	121.0827
50.1667	2.4005	121.2537	0.0006	121.2543
50.2	2.3959	121.3852	0.0006	121.3858
50.2333	2.4002	121.7139	0.0006	121.7145
50.2667	2.4015	121.9112	0.0006	121.9117
50.3	2.4025	121.7402	0.0006	121.7408
50.3333	2.4012	122.2399	0.0019	122.2418
50.3667	2.4061	122.7396	0.0006	122.7402
50.4	2.4064	122.8579	0	122.8579
50.4333	2.4077	122.7396	0	122.7396
50.4667	2.4051	122.8842	0.0019	122.8861
50.5	2.4025	123.042	0	123.042
50.5333	2.4051	123.0683	0.0006	123.0689
50.5667	2.4091	123.042	0.0006	123.0426
50.6	2.4041	123.2393	0	123.2393
50.6333 50.6667	2.4044 2.4054	123.3445 123.4234	0.0006	123.3451 123.4234
50.6667	2.4054	123.5286	0.0006	123.5292
50.7333	2.4044	123.8047	0.0019	123.8066
50.7667	2.4044	123.8573	0.0006	123.8579
50.8	2.4035	123.8836	0.0019	123.8855
50.8333	2.4021	124.0677	0.0006	124.0683
50.8667	2.4074	124.2387	0	124.2387
50.9	2.4035	124.5542	0	124.5542
50.9333	2.4015	124.4096	0.0006	124.4102
50.9667	2.4044	124.5017	0	124.5017
51	2.3985	124.8567	0.0019	124.8586
51.0333	2.4035	124.9487	0.0006	124.9493
51.0667	2.4021	124.9619	0.0006	124.9625
51.1	2.4051	125.146	0	125.146
51.1333	2.4035	125.1591	0.0019	125.161
51.1667	2.4012	125.3169	0	125.3169
51.2	2.3969	125.6325	0.0019	125.6344
51.2333 51.2667	2.4015 2.3942	125.6588 125.6588	0 0006	125.6588 125.6594
51.2667	2.3942	125.6588	0.0006	125.6594
51.3	2.39/5	125.935	0.0006	125.9356



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
E1 2222	2 2062	125 0076	0.0006	125 0002
51.3333 51.3667	2.3962 2.3985	125.9876 125.9744	0.0006	125.9882 125.9744
51.3667	2.3962	126.3821	0	126.3821
51.4333	2.3975	126.3032	0.0006	126.3038
51.4667	2.4002	126.4084	0.0006	126.409
51.5	2.3995	126.5136	0.0019	126.5155
51.5333	2.3995	126.6451	0.0013	126.6451
51.5667	2.3985	126.7108	0.0019	126.7127
51.6	2.3975	126.8423	0.0019	126.8442
51.6333	2.3989	127.079	0.0006	127.0796
51.6667	2.3949	127.1447	0.0006	127.1453
51.7	2.3969	127.1316	0	127.1316
51.7333	2.3962	127.4209	0.0006	127.4215
51.7667	2.3969	127.4603	0.0006	127.4609
51.8	2.4002	127.3551	0.0006	127.3557
51.8333	2.4021	127.6444	0	127.6444
51.8667	2.4025	127.7102	0	127.7102
51.9	2.4028	127.7628	0.0019	127.7647
51.9333	2.4051	128.0126	0	128.0126
51.9667	2.4041	128.3282	0	128.3282
52	2.4058	128.1967	0.0019	128.1986
52.0333	2.4097	128.3545	0	128.3545
52.0667	2.4051	128.4203	0.0019	128.4222
52.1	2.4048	128.6044	0.0006	128.605
52.1333	2.3959	128.6044	0	128.6044
52.1667	2.3439	128.6964	0	128.6964
52.2 52.2333	2.1487 1.9233	128.7885 129.0252	0.0006	128.7891 129.0258
52.2667	1.7185	128.6307	0.0006	128.6313
52.2007	1.5319	128.5649	0.0000	128.5649
52.3333	1.3667	127.8154	0.0006	127.816
52.3667	1.2133	127.697	0.0006	127.6976
52.4	1.0826	126.816	0	126.816
52.4333	0.9599	126.2374	0	126.2374
52.4667	0.8503	125.6851	0	125.6851
52.5	0.7532	125.2512	0	125.2512
52.5333	0.663	124.3833	0	124.3833
52.5667	0.5942	123.831	0	123.831
52.6	0.5251	122.8974	0.0006	122.898
52.6333	0.4652	122.3056	0.0006	122.3062
52.6667	0.4102	121.4772	0	121.4772
52.7	0.3628	120.8066	0	120.8066
52.7333	0.322	119.6888	0.0006	119.6894
52.7667	0.2842	118.7947	0	118.7947



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
52.8	0.2499	117.9136	0	117.9136
52.8333	0.2233	116.8617	0.0019	116.8636
52.8667	0.1973	115.9017	0	115.9017
52.9	0.1762	115.047	0	115.047
52.9333	0.1555	114.0871	0	114.0871
52.9667	0.1367	113.0219	0.0006	113.0225
53	0.1206	112.1277	0.0006	112.1283
53.0333	0.1041	110.9443	0.0006	110.9449
53.0667	0.091	110.1816	0.0006	110.1822
53.1	0.0801	109.1165	0.0019	109.1184
53.1333	0.0673	108.0513	0.0006	108.0519
53.1667	0.061	106.789	0.0006	106.7896
53.2	0.0485	106.092	0.0006	106.0926
53.2333	0.0442	105.0269	0	105.0269
53.2667	0.037	104.1459	0.0006	104.1465
53.3	0.0222	103.3043	0.0006	103.3049
53.3333	0.0189	102.1734	0.0019	102.1753
53.3667	0.0097	101.3055	0.0006	101.3061
53.4	0.0044	100.4245	0	100.4245
53.4333	-0.0012	99.2936	0.0006	99.2942
53.4667	-0.0071	98.1101	0.0006	98.1107
53.5	-0.0084	97.3343	0.0006	97.3349
53.5333 53.5667	-0.0163	96.427	0	96.427 95.3881
53.6	-0.018 -0.0223	95.3881 94.2441	0.0032	94.2473
53.6333	-0.0223	93.5077	0.0032	93.5083
53.6667	-0.0272	92.6661	0.0000	92.6661
53.7	-0.0298	91.7062	0.0006	91.7068
53.7333	-0.0238	90.6411	0.0000	90.6411
53.7667	-0.0328	89.7732	0.0006	89.7738
53.8	-0.0367	88.6292	0.0006	88.6298
53.8333	-0.0371	87.8665	0	87.8665
53.8667	-0.0334	86.8671	0	86.8671
53.9	-0.0404	86.0518	0	86.0518
53.9333	-0.043	85.0524	0.0006	85.053
53.9667	-0.04	83.9873	0	83.9873
54	-0.0417	83.0931	0.0006	83.0937
54.0333	-0.0453	82.3962	0	82.3962
54.0667	-0.0473	81.3442	0.0006	81.3448
54.1	-0.0492	80.4895	0.0006	80.4901
54.1333	-0.0496	79.5822	0.0006	79.5828
54.1667	-0.0479	78.6748	0	78.6748
54.2	-0.0509	77.728	0.0006	77.7286
54.2333	-0.0509	76.8602	0.0006	76.8608



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
54.2667	-0.0476	75.8871	0	75.8871
54.3	-0.0512	75.0586	0.0019	75.0606
54.3333	-0.0486	74.0856	0.0019	74.0875
54.3667	-0.0515	73.0993	0.0006	73.0999
54.4 54.4333	-0.0506	72.3761	0	72.3761
54.4667	-0.0529 -0.0509	71.5082 70.5088	0.0019 0.0006	71.5101 70.5094
54.4667	-0.0539	69.7067	0.0008	69.7086
54.5333	-0.0558	68.7599	0.0019	68.7605
54.5667	-0.0519	67.9183	0.0019	67.9203
54.6	-0.0519	66.9847	0.0019	66.9866
54.6333	-0.0506	66.1826	0.0019	66.1826
54.6667	-0.0522	65.2752	0	65.2752
54.7	-0.0509	64.3942	0	64.3942
54.7333	-0.0522	63.5658	0	63.5658
54.7667	-0.0519	62.6322	0.0019	62.6341
54.8	-0.0552	61.7643	0	61.7643
54.8333	-0.0466	60.9227	0.0019	60.9246
54.8667	-0.0499	60.0285	0	60.0285
54.9	-0.0506	59.1869	0.0006	59.1875
54.9333	-0.0519	58.3453	0.0019	58.3473
54.9667	-0.0509	57.5038	0.0006	57.5044
55	-0.0499	56.6753	0.0006	56.6759
55.0333	-0.0496	55.8074	0.0006	55.808
55.0667	-0.0492	54.9922	0	54.9922
55.1	-0.0496	54.1243	0	54.1243
55.1333	-0.0479	53.2958	0	53.2958
55.1667	-0.0496	52.4806	0	52.4806
55.2	-0.0496	51.6916	0	51.6916
55.2333 55.2667	-0.0479 -0.0463	50.85	0.0006	50.8506 49.9558
55.3	-0.0469	49.9558 49.18	0.0006	49.9338
55.3333	-0.0486	48.3252	0.0000	48.3252
55.3667	-0.0486	47.5889	0	47.5889
55.4	-0.0476	46.7341	0.0006	46.7347
55.4333	-0.0476	45.9846	0.0000	45.9846
55.4667	-0.046	45.1167	0.0019	45.1186
55.5	-0.0473	44.4329	0	44.4329
55.5333	-0.0427	43.5782	0.0006	43.5788
55.5667	-0.043	42.8418	0.0019	42.8437
55.6	-0.0466	42.066	0.0006	42.0666
55.6333	-0.045	41.2112	0.0006	41.2118
55.6667	-0.0427	40.4749	0	40.4749
55.7	-0.0443	39.7516	0.0006	39.7522



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
55.7333	-0.0466	38.9495	0.0019	38.9514
55.7667	-0.046	38.2526	0.0006	38.2532
55.8	-0.0446	37.4636	0	37.4636
55.8333	-0.0417	36.7535	0.0006	36.7541
55.8667	-0.042	36.0303	0.0006	36.0309
55.9	-0.0423	35.2807	0.0006	35.2813
55.9333	-0.0456	34.6101	0.0019	34.612
55.9667	-0.041	33.8474	0.0019	33.8493
56	-0.0456	33.111	0.0019	33.1129
56.0333	-0.041	32.4009	0.0006	32.4015
56.0667	-0.0476	31.7697	0	31.7697
56.1 56.1333	-0.044 -0.0404	31.0728 30.389	0.0006	31.0734 30.3896
56.1667	-0.0404	29.6658	0.0008	29.6677
56.2	-0.0443	29.0214	0.0006	29.022
56.2333	-0.0423	28.2982	0.0006	28.2988
56.2667	-0.044	27.6407	0.0006	27.6413
56.3	-0.0397	27.049	0.0019	27.0509
56.3333	-0.0427	26.3652	0.0006	26.3658
56.3667	-0.043	25.734	0.0006	25.7346
56.4	-0.043	25.116	0	25.116
56.4333	-0.0374	24.5242	0	24.5242
56.4667	-0.0381	23.8668	0	23.8668
56.5	-0.0446	23.2093	0	23.2093
56.5333	-0.0433	22.6044	0.0006	22.605
56.5667	-0.0443	22.0389	0.0006	22.0395
56.6	-0.0358	21.4735	0	21.4735
56.6333	-0.0377	20.816	0.0006	20.8166
56.6667	-0.0384	20.29	0	20.29
56.7 56.7333	-0.0384 -0.0413	19.6325 19.0408	0.0006	19.6325 19.0414
56.7667	-0.0413	18.5017	0.0008	18.5036
56.8	-0.0407	17.9231	0.0019	17.9237
56.8333	-0.0364	17.4102	0.0000	17.4102
56.8667	-0.0404	16.8448	0.0019	16.8467
56.9	-0.0387	16.3583	0.0015	16.3583
56.9333	-0.0374	15.7928	0.0006	15.7934
56.9667	-0.0361	15.3194	0.0006	15.32
57	-0.0361	14.8066	0.0006	14.8072
57.0333	-0.0413	14.2412	0.0019	14.2431
57.0667	-0.0348	13.7546	0.0019	13.7565
57.1	-0.0371	13.3207	0.0019	13.3226
57.1333	-0.0348	12.8473	0	12.8473
57.1667	-0.0364	12.3476	0.0032	12.3508



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
57.0	0.0364	11 0074	0	11.0074
57.2 57.2333	-0.0364 -0.0374	11.8874 11.4403	0.0006	11.8874 11.4409
57.2667	-0.0374	11.0326	0.0008	11.0345
57.2007	-0.0334	10.5987	0.0019	10.5987
57.3333	-0.0348	10.2042	0.0006	10.3387
57.3667	-0.0311	9.7965	0.0006	9.7971
57.4	-0.0311	9.3889	0.0006	9.3895
57.4333	-0.0331	9.0076	0.0006	9.0082
57.4667	-0.0292	8.6394	0	8.6394
57.5	-0.0315	8.2975	0	8.2975
57.5333	-0.0341	7.9687	0	7.9687
57.5667	-0.0315	7.6268	0	7.6268
57.6	-0.0348	7.3112	0.0019	7.3132
57.6333	-0.0334	7.0746	0.0006	7.0752
57.6667	-0.0331	6.6932	0.0019	6.6951
57.7	-0.0315	6.4565	0.0019	6.4584
57.7333	-0.0298	6.1672	0.0006	6.1678
57.7667	-0.0292	5.9174	0.0006	5.918
57.8	-0.0367	5.6938	0.0019	5.6957
57.8333	-0.0302	5.4308	0	5.4308
57.8667	-0.0295	5.2336	0	5.2336
57.9	-0.0318	4.9706	0.0006	4.9712
57.9333	-0.0282	4.7471	0.0019	4.749
57.9667	-0.0348	4.5367	0.0019	4.5386
58	-0.0315	4.3131	0.0019	4.315
58.0333	-0.0321	4.129	0	4.129
58.0667	-0.0315	3.9581	0.0006	3.9587
58.1	-0.0288	3.7345	0.0006	3.7351
58.1333 58.1667	-0.0328 -0.0272	3.6425 3.4715	0.0006	3.6431 3.4721
58.2	-0.0272	3.3269	0.0008	3.3269
58.2333	-0.0334	3.2743	0	3.2743
58.2667	-0.0318	3.1296	0	3.1296
58.3	-0.0275	0.0263	0.0006	0.0269
58.3333	-0.0318	0.0263	0	0.0263
58.3667	-0.0269	0.0131	0.0006	0.0137
58.4	-0.0292	0.0131	0.0006	0.0137
58.4333	-0.0269	0.0131	0	0.0131
58.4667	-0.0311	0.0131	0.0032	0.0164
58.5	-0.0272	0	0.0006	0.0006
58.5333	-0.0275	0.0131	0.0006	0.0137
58.5667	-0.0288	0.0131	0.0019	0.0151
58.6	-0.0302	0.0131	0.0019	0.0151
58.6333	-0.0272	0.0131	0	0.0131



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
58.6667	-0.0269	0.0263	0.0019	0.0282
58.7	-0.0209	0.0131	0.0015	0.0282
58.7333	-0.0273	0.0131	0.0000	0.0137
58.7667	-0.0308	0.0131	0	0.0131
58.8	-0.0272	0.0131	0	0.0131
58.8333	-0.0288	0.0131	0	0.0131
58.8667	-0.0308	0.0131	0	0.0131
58.9	-0.0292	0.0131	0	0.0131
58.9333	-0.0282	0.0131	0	0.0131
58.9667	-0.0295	0.0131	0	0.0131
59	-0.0285	0.0131	0	0.0131
59.0333	-0.0269	0	0.0006	0.0006
59.0667	-0.0262	0.0263	0.0006	0.0269
59.1	-0.0265	0.0131	0.0019	0.0151
59.1333	-0.0295	0.0131	0.0006	0.0137
59.1667	-0.0295	0.0131	0	0.0131
59.2	-0.0344	0.0263	0.0019	0.0282
59.2333	-0.0302	0.0263	0.0019	0.0282
59.2667	-0.0302	0.0131	0.0006	0.0137
59.3	-0.0298	0.0131	0.0006	0.0137
59.3333	-0.0308	0	0	0
59.3667	-0.0252	0.0263	0	0.0263
59.4	-0.0259	0.0131	0	0.0131
59.4333	-0.0239	0.0131	0.0006	0.0137
59.4667	-0.0252	0.0263	0.0006	0.0269
59.5	-0.02	0	0	0
59.5333	-0.0167	0	0.0006	0.0006
59.5667	-0.0144	0	0.0006	0.0006
59.6	-0.0134	0.0131	0.0006	0.0137
59.6333	-0.017	0.0131	0.0006	0.0006
59.6667 59.7	-0.0137	0.0131	0.0019	0.0131 0.0282
59.7333	-0.0153 -0.016	0.0263	0.0019	0.0282
59.7667	-0.016	0.0263	0	0.0203
59.8	-0.0225	0.0131	0.0006	0.0131
59.8333	-0.0210	0.0131	0.0019	0.0157
59.8667	-0.0321	0.0131	0.0006	0.0137
59.9	-0.0325	0.0131	0.0019	0.0151
59.9333	-0.0318	0.0263	0.0006	0.0269
59.9667	-0.0269	0	0.0006	0.0006
60	-0.0232	0.0263	0.0019	0.0282
60.0333	-0.0252	0.0263	0	0.0263
60.0667	-0.0269	0.0263	0.0019	0.0282
60.1	-0.0249	0.0131	0.0006	0.0137



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
60.1333	-0.0275	0.0131	0	0.0131
60.1667	-0.0232	0.0263	0	0.0263
60.2	-0.0275	0.0131	0.0019	0.0151
60.2333	-0.0259	0.0131	0.0006	0.0137
60.2667	-0.0259	0.0131	0	0.0131
60.3	-0.0249	0	0.0019	0.0019
60.3333	-0.0252	0.0131	0.0006	0.0137
60.3667	-0.0229	0.0131	0.0006	0.0137
60.4	-0.0236	0.0131	0.0006	0.0137
60.4333 60.4667	-0.0252	0	0	0 0151
60.5	-0.0239 -0.0252	0.0131 0.0131	0.0019	0.0151 0.0131
60.5333	-0.0252	0.0131	0.0006	0.0151
60.5667	-0.0255	0.0263	0.0000	0.0263
60.6	-0.0226	0.0131	0.0006	0.0137
60.6333	-0.0269	0	0.0006	0.0006
60.6667	-0.0282	0.0263	0	0.0263
60.7	-0.0282	0.0131	0.0019	0.0151
60.7333	-0.0262	0.0263	0	0.0263
60.7667	-0.0259	0.0263	0.0006	0.0269
60.8	-0.0282	0.0131	0	0.0131
60.8333	0.065	0.0131	0	0.0131
60.8667	0.1963	0.0263	0	0.0263
60.9	0.3131	0.0263	0	0.0263
60.9333	0.4115	0.0131	0.0006	0.0137
60.966 7 61	0.5014 0.5893	10.3094 12.5448	0.0006	10.3094 12.5454
61.0333	0.6683	14.6093	0.0006	14.6099
61.0667	0.7377	16.5029	0.0000	16.5029
61.1	0.8032	18.3439	0	18.3439
61.1333	0.875	20.1322	0.0006	20.1328
61.1667	0.9352	21.8285	0.0006	21.8291
61.2	0.9958	23.4723	0.0006	23.4729
61.2333	1.0491	25.0897	0	25.0897
61.2667	1.1014	26.6939	0	26.6939
61.3	1.1501	28.1799	0	28.1799
61.3333	1.1919	29.6658	0	29.6658
61.3667	1.2344	31.1254	0.0006	31.126
61.4	1.2749	32.6245	0.0019	32.6264
61.4333 61.4667	1.3091 1.3463	34.0446 35.3728	0	34.0446
61.5	1.3463	36.8061	0	35.3728 36.8061
61.5333	1.4114	38.1211	0.0006	38.1217
61.5667	1.4427	39.3308	0.0000	39.3308
01.3007	1.772/	33.3300	U	33.3300



Project No. G100982213SAT-003

Time	Ch 1 dP	Ch 2 High Flow	Ch 3 Low Flow	Total Flow
(min)	(psi)	(LPM)	(LPM)	(LPM)
	4 4607	40.5007	0.0005	10 6222
61.6	1.4687	40.6327	0.0006	40.6333
61.6333	1.498	41.895	0.0006	41.8956
61.6667	1.528	43.0522	0.0006	43.0528
61.7	1.5507	44.2357	0.0006	44.2363
61.7333	1.577	45.4192	0.0006	45.4198
61.7667	1.603	46.6158	0.0019	46.6177
61.8	1.6241	47.6941	0	47.6941
61.8333	1.6474	48.8249	0.0006	48.8255
61.8667	1.6682	49.8638	0.0006	49.8644
61.9	1.6899	50.9552	0	50.9552
61.9333	1.7087	52.0203	0	52.0203
61.9667	1.7274	53.0592	0.0006	53.0597
62	1.7458	54.0848	0 0033	54.0848
62.0333 62.0667	1.7646	55.1631	0.0032	55.1663 56.1105
	1.7768	56.1099	0.0006 0.0019	
62.1 62.1333	1.7952	57.1093		57.1112
62.1667	1.8097 1.8222	58.0429	0.0006	58.0435 59.0297
62.2	1.836	59.0291		
62.2333	1.8476	59.9759 60.8964	0	59.9759 60.8964
62.2667	1.8597	61.8432	0.0019	61.8451
62.3	1.8732	62.7242	0.0019	62.7261
62.3333	1.8828	63.5395	0.0019	63.5401
62.3667	1.8946	64.4337	0.0006	64.4343
62.4	1.9045	65.3278	0.0006	65.3284
62.4333	1.9127	66.2483	0.0019	66.2502
62.4667	1.9223	67.0505	0.0006	67.0511
62.5	1.9279	67.9578	0.0019	67.9597
62.5333	1.9371	68.7336	0.0006	68.7342
62.5667	1.9479	69.5489	0.0019	69.5508
62.6	1.9542	70.3247	0.0013	70.3247
62.6333	1.9598	71.1795	0.0019	71.1814
62.6667	1.9683	71.8896	0.0006	71.8902
62.7	1.9762	72.7048	0.0006	72.7054
62.7333	1.9812	73.4807	0.0006	73.4813
62.7667	1.9871	74.2828	0.0006	74.2834
62.8	1.9943	74.9797	0.0019	74.9817
62.8333	1.9973	75.8213	0.0006	75.8219
62.8667	2.0032	76.4657	0.0006	76.4663
62.9	2.0105	77.2021	0	77.2021
62.9333	2.0148	77.899	0.0006	77.8996
62.9667	2.0171	78.6354	0	78.6354
63	2.0243	79.2403	0	79.2403
63.0333	2.0263	80.0292	0	80.0292



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
C2 0CC7	2.0215	00 6472	0.0000	00.6470
63.0667 63.1	2.0315 2.0348	80.6473 81.4363	0.0006 0.0006	80.6479 81.4369
63.1333	2.0348	82.0149	0.0006	82.0155
63.1667	2.0417	82.7775	0.0006	82.7781
63.2	2.0444	83.3035	0.0000	83.3035
63.2333	2.0493	83.961	0.0006	83.9616
63.2667	2.0542	84.5133	0.0006	84.5139
63.3	2.0569	85.1971	0.0006	85.1977
63.3333	2.0595	85.8283	0	85.8283
63.3667	2.0628	86.4989	0.0019	86.5008
63.4	2.0625	87.0644	0.0006	87.0649
63.4333	2.0648	87.7744	0.0019	87.7763
63.4667	2.0671	88.1426	0.0006	88.1432
63.5	2.0671	88.9185	0	88.9185
63.5333	2.0681	89.4313	0	89.4313
63.5667	2.0681	89.8652	0	89.8652
63.6	2.0714	90.4833	0	90.4833
63.6333	2.074	91.0093	0	91.0093
63.6667	2.071	91.6799	0.0006	91.6805
63.7	2.0753	92.1927	0	92.1927
63.7333	2.0733	92.7713	0.0006	92.7719
63.7667	2.0799	93.2842	0.0006	93.2848
63.8	2.0799	93.9811	0	93.9811
63.8333	2.077	94.4414	0.0019	94.4433
63.8667	2.0786	94.8884	0	94.8884
63.9	2.0789	95.5065	0	95.5065
63.9333	2.0816	95.9273	0.0006	95.9279
63.9667	2.0812	96.3481	0	96.3481
64 64.0333	2.0799 2.0826	96.9661 97.4395	0.0006	96.9667 97.4395
64.0667	2.0826	97.8866	0.0006	97.8872
64.1	2.0819	98.452	0.0000	98.452
64.1333	2.0819	98.886	0	98.886
64.1667	2.0796	99.3725	0.0006	99.3731
64.2	2.0789	99.767	0.0006	99.7676
64.2333	2.0799	100.293	0	100.293
64.2667	2.0789	100.7664	0.0006	100.767
64.3	2.0756	101.2792	0	101.2792
64.3333	2.0747	101.7132	0	101.7132
64.3667	2.071	102.0287	0	102.0287
64.4	2.073	102.5679	0.0006	102.5685
64.4333	2.0704	103.0281	0.0006	103.0287
64.4667	2.0674	103.633	0.0006	103.6336
64.5	2.0645	103.804	0.0019	103.8059



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
64.5333	2.0638	104.4089	0.0006	104.4094
64.5667	2.0631	104.7507	0.0009	104.7527
64.6	2.0631	105.1321	0.0013	105.1321
64.6333	2.0592	105.7501	0	105.7501
64.6667	2.0562	105.9211	0	105.9211
64.7	2.0552	106.3813	0	106.3813
64.7333	2.0552	106.881	0.0006	106.8816
64.7667	2.0523	107.3281	0.0019	107.33
64.8	2.0493	107.5779	0.0006	107.5785
64.8333	2.044	107.8409	0.0019	107.8428
64.8667	2.0388	108.3801	0.0006	108.3807
64.9	2.0358	108.7483	0	108.7483
64.9333	2.0256	109.1954	0.0006	109.196
64.9667	2.025	109.4452	0.0006	109.4458
65	2.0203	109.8397	0.0006	109.8403
65.0333	2.0164	110.1816	0	110.1816
65.0667	2.0141	110.6813	0.0019	110.6832
65.1	2.0078	110.8522	0.0006	110.8528
65.1333	2.0016	111.1547	0	111.1547
65.1667	1.9999	111.5492	0	111.5492
65.2	1.9953	111.7859	0.0006	111.7865
65.2333	1.995	112.3644	0.0006	112.365
65.2667	1.9904	112.4565	0.0006	112.4571
65.3	1.9812	112.851	0.0006	112.8516
65.3333	1.9815	113.1797	0.0006	113.1803
65.3667	1.9795	113.3901	0.0006	113.3907
65.4 65.4333	1.9756 1.971	113.7978	0.0006	113.7984
65.4667	1.9664	114.0739 114.3632	0.0008	114.0745 114.3632
65.5	1.9654	114.5604	0.0006	114.561
65.5333	1.9621	114.9681	0.0000	114.9681
65.5667	1.9624	115.3231	0.0019	115.325
65.6	1.9545	115.5072	0.0013	115.5072
65.6333	1.9512	115.9149	0	115.9149
65.6667	1.9499	116.0332	0.0006	116.0338
65.7	1.9463	116.4277	0	116.4277
65.7333	1.9423	116.7433	0.0006	116.7439
65.7667	1.9367	116.8091	0	116.8091
65.8	1.9335	117.1115	0.0006	117.1121
65.8333	1.9269	117.6375	0	117.6375
65.8667	1.9239	117.8084	0	117.8084
65.9	1.9233	117.861	0.0019	117.8629
65.9333	1.9167	118.2555	0	118.2555
65.9667	1.9117	118.4133	0.0032	118.4165



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
(11111)	(p31)	(LF WI)	(LFIVI)	(LF IVI)
66	1.9098	118.7289	0	118.7289
66.0333	1.9088	118.8341	0	118.8341
66.0667	1.9015	119.2549	0.0032	119.2581
66.1	1.8976	119.4653	0.0006	119.4659
66.1333	1.8979	119.6625	0.0006	119.6631
66.1667	1.8907	119.8466	0.0006	119.8472
66.2	1.8913	120.1491	0	120.1491
66.2333	1.8818	120.4121	0.0006	120.4127
66.2667	1.8808	120.5699	0	120.5699
66.3	1.8759	120.6225	0	120.6225
66.3333	1.8742	120.9118	0.0006	120.9124
66.3667	1.8689	121.2274	0	121.2274
66.4	1.8689	121.2405	0.0006	121.2411
66.4333	1.865	121.6876	0.0019	121.6895
66.4667	1.8578	121.6219	0.0006	121.6225
66.5	1.8476	121.9112	0.0006	121.9117
66.5333	1.8439	122.1347	0.0019	122.1366
66.5667 66.6	1.8397 1.8304	122.2793 122.2925	0.0006	122.2793 122.2931
66.6333	1.8248	122.8053	0.0006	122.8059
66.6667	1.8156	122.5818	0.0000	122.5818
66.7	1.811	122.9894	0.0006	122.99
66.7333	1.7962	123.0946	0.0000	123.0946
66.7667	1.786	123.2656	0	123.2656
66.8	1.7722	123.1998	0.0006	123.2004
66.8333	1.7584	123.5812	0	123.5812
66.8667	1.7435	123.5417	0.0006	123.5423
66.9	1.7294	123.6338	0.0019	123.6357
66.9333	1.7238	123.739	0.0019	123.7409
66.9667	1.7123	123.9231	0	123.9231
67	1.7031	123.9494	0	123.9494
67.0333	1.6942	124.1992	0.0006	124.1998
67.0667	1.6836	124.2781	0	124.2781
67.1	1.6738	124.2518	0.0019	124.2537
67.1333	1.6715	124.4491	0.0006	124.4496
67.1667	1.6669	124.6857	0	124.6857
67.2	1.6613	124.4754	0	124.4754
67.2333 67.2667	1.6501 1.6461	124.7515 124.7909	0.0019	124.7515 124.7929
67.3	1.6402	124.7909	0.0019	124.7929
67.3333	1.6343	124.8041	0.0032	124.8073
67.3667	1.6257	124.9882	0.0032	124.8073
67.4	1.6241	124.8435	0.0006	124.8441
67.4333	1.6188	125.1591	0.0000	125.1591
	2.0200	223.1331	0	



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
67.4667	1.6152	125.1328	0	125.1328
67.5	1.6093	125.238	0	125.238
67.5333	1.6047	125.2643	0.0006	125.2649
67.5667	1.5987	125.1986	0.0006	125.1992
67.6	1.5921	125.3432	0.0006	125.3438
67.6333	1.5862	125.4747	0.0019	125.4766
67.6667	1.5833	125.3169	0	125.3169
67.7	1.578	125.5142	0.0019	125.5161
67.7333	1.5727	125.4484	0.0019	125.4503
67.7667	1.5678	125.3695	0.0006	125.3701
67.8	1.5668	125.5668	0	125.5668
67.8333	1.5622	125.5536	0	125.5536
67.8667	1.5599	125.6588	0.0006	125.6594
67.9	1.5582	125.7114	0.0019	125.7133
67.9333 67.9667	1.5517 1.5494	125.4879	0.0019 0.0006	125.4898
68	1.5494	125.5931 125.5536	0.0008	125.5937 125.5536
68.0333	1.5438	125.672	0	125.672
68.0667	1.3502	125.6194	0.0006	125.62
68.1	1.1389	125.3038	0.0006	125.3044
68.1333	0.9612	124.883	0.0000	124.883
68.1667	0.8016	124.4359	0.0019	124.4378
68.2	0.6676	123.739	0.0015	123.739
68.2333	0.5498	123.0026	0.0006	123.0032
68.2667	0.4514	121.9638	0	121.9638
68.3	0.3658	121.28	0.0006	121.2806
68.3333	0.2957	120.3069	0	120.3069
68.3667	0.2351	119.0577	0.0006	119.0583
68.4	0.1861	118.1503	0	118.1503
68.4333	0.1459	117.1378	0.0006	117.1384
68.4667	0.1087	115.8228	0	115.8228
68.5	0.0834	114.7445	0.0019	114.7465
68.5333	0.0567	113.4953	0.0006	113.4959
68.5667	0.0416	112.062	0.0006	112.0626
68.6	0.0245	111.0758	0.0019	111.0777
68.6333	0.011	110.0238	0	110.0238
68.6667	0.0011	108.9981	0.0006	108.9987
68.7 68.7333	-0.0084 -0.0157	107.7489 106.7101	0.0006 0.0006	107.7495 106.7107
68.7667	-0.0137	105.5923	0.0008	105.5942
68.8	-0.0232	104.3431	0.0019	103.3942
68.8333	-0.0303	103.1859	0.0008	103.1859
68.8667	-0.0358	101.8315	0	101.8315
68.9	-0.0387	100.7532	0	100.7532
00.5	5.0507	100.7552	O.	100.7552



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
68.9333	-0.044	99.6355	0.0006	99.6361
68.9667	-0.044	98.5309	0.0008	98.5309
69	-0.0483	97.308	0	97.308
69.0333	-0.0492	96.3612	0	96.3612
69.0667	-0.0522	95.375	0.0019	95.3769
69.1	-0.0562	94.0469	0.0019	94.0488
69.1333	-0.0581	93.008	0	93.008
69.1667	-0.0555	91.864	0	91.864
69.2	-0.0611	90.9435	0	90.9435
69.2333	-0.0621	89.76	0.0006	89.7606
69.2667	-0.0618	88.7212	0.0006	88.7218
69.3	-0.0641	87.7481	0	87.7481
69.3333	-0.0644	86.6962	0	86.6962
69.3667	-0.0637	85.4601	0.0019	85.462
69.4	-0.066	84.4607	0.0006	84.4613
69.4333	-0.069	83.5928	0.0006	83.5934
69.4667	-0.0703	82.6197	0	82.6197
69.5	-0.0723	81.4626	0.0019	81.4645
69.5333	-0.0733	80.5289	0	80.5289
69.5667	-0.0733	79.3981	0.0006	79.3987
69.6	-0.0746	78.3461	0.0006	78.3467
69.6333 69.6667	-0.0766 -0.0795	77.3467 76.3605	0.0006	77.3473 76.3605
69.7	-0.0808	75.4268	0	75.4268
69.7333	-0.0792	74.388	0.0019	74.3899
69.7667	-0.0802	73.336	0.0006	73.3366
69.8	-0.0799	72.455	0	72.455
69.8333	-0.0822	71.4425	0.0019	71.4444
69.8667	-0.0785	70.4431	0	70.4431
69.9	-0.0782	69.4569	0	69.4569
69.9333	-0.0808	68.4838	0.0006	68.4844
69.9667	-0.0808	67.5896	0.0006	67.5902
70	-0.0789	66.6034	0	66.6034
70.0333	-0.0815	65.7618	0.0006	65.7624
70.0667	-0.0805	64.5783	0.0006	64.5789
70.1	-0.0762	63.7499	0.0006	63.7505
70.1333	-0.0776	62.8162	0	62.8162
70.1667	-0.0749	61.8169	0	61.8169
70.2	-0.0759	61.0279	0.0006	61.0285
70.2333	-0.0752	60.1206	0.0006	60.1212
70.2667 70.3	-0.072 -0.0756	59.0028 58.1612	0	59.0028 58.1612
70.3333	-0.0733	57.2671	0	57.2671
70.3667	-0.0743	56.3071	0	56.3071
70.3007	0.0743	50.50/1	U	50.5071



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
70.4	-0.0723	55.4261	0.0006	55.4267
70.4333	-0.0736	54.5714	0.0006	54.572
70.4667	-0.0756	53.6377	0.0032	53.641
70.5	-0.0749	52.7699	0.0019	52.7718
70.5333	-0.0739	51.8231	0	51.8231
70.5667	-0.0749	50.9946	0.0006	50.9952
70.6	-0.0789	50.0347	0.0019	50.0366
70.6333	-0.0759	49.2063	0.0019	49.2082
70.6667	-0.0749	48.2858	0.0019	48.2877
70.7	-0.0795	47.4968	0.0006	47.4974
70.7333	-0.0759	46.6158	0	46.6158
70.7667	-0.0769	45.7874	0.0019	45.7893
70.8	-0.0743	44.9326	0	44.9326
70.8333 70.8667	-0.0723 -0.0706	44.0516 43.1706	0.0006	44.0516 43.1712
70.8667	-0.0708	42.4605	0.0008	42.4605
70.9333	-0.072	41.4611	0	41.4611
70.9667	-0.0647	40.6458	0.0019	40.6477
70.3007	-0.065	39.8174	0.0006	39.818
71.0333	-0.0677	38.8837	0.0019	38.8857
71.0667	-0.0664	38.2263	0	38.2263
71.1	-0.0654	37.3715	0.0006	37.3721
71.1333	-0.0634	36.6351	0.0019	36.6371
71.1667	-0.0644	35.7673	0	35.7673
71.2	-0.0611	35.0703	0.0006	35.0709
71.2333	-0.0641	34.3339	0.0019	34.3359
71.2667	-0.0562	33.2557	0.0019	33.2576
71.3	-0.0548	32.2957	0.0006	32.2963
71.3333	-0.0558	31.4673	0.0019	31.4692
71.3667	-0.0578	30.7572	0.0006	30.7578
71.4	-0.0562	29.9945	0	29.9945
71.4333	-0.0525	29.2844	0.0019	29.2864
71.4667	-0.0548	28.5218	0	28.5218
71.5	-0.0545	27.8117	0.0006	27.8123
71.5333	-0.0571	27.1542	0.0006	27.1548
71.5667 71.6	-0.0552 -0.0565	26.4441	0.0006	26.4447 25.7741
71.6333	-0.0565	25.7735	0.0006	
71.6333	-0.0512	25.0765 24.3927	0.0019	25.0765 24.3947
71.0007	-0.0558	23.7221	0.0019	23.724
71.7333	-0.0515	23.012	0.0019	23.012
71.7667	-0.0513	22.3545	0.0006	22.3551
71.8	-0.0519	21.7365	0.0000	21.7365
71.8333	-0.0506	21.0527	0.0006	21.0533



Project No. G100982213SAT-003

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
71.8667	-0.0506	20.3952	0	20.3952
71.9	-0.0479	19.7509	0.0019	19.7528
71.9333	-0.0483	19.0671	0	19.0671
71.9667	-0.0473	18.4622	0.0019	18.4641
72	-0.046	17.8442	0.0006	17.8448
72.0333	-0.046	17.2261	0.0006	17.2267
72.0667	-0.0443	16.6344	0.0006	16.635
72.1	-0.043	16.0427	0.0006	16.0433
72.1333	-0.04	15.4904	0	15.4904
72.1667	-0.0397	14.9381	0.0006	14.9387
72.2 72.2333	-0.0377 -0.0381	14.399 13.8204	0.0019	14.4009 13.8204
72.2667	-0.0381	13.3075	0.0019	13.3094
72.2007	-0.0364	12.8473	0.0019	12.8473
72.3333	-0.04	12.3344	0.0006	12.335
72.3667	-0.0354	11.8085	0.0019	11.8104
72.4	-0.0384	11.2825	0.0019	11.2844
72.4333	-0.0367	10.8354	0	10.8354
72.4667	-0.0381	10.4014	0.0019	10.4033
72.5	-0.0404	9.9543	0.0006	9.9549
72.5333	-0.0374	9.5467	0	9.5467
72.5667	-0.04	9.1391	0.0006	9.1397
72.6	-0.0374	8.7183	0.0006	8.7189
72.6333	-0.0387	8.3764	0.0019	8.3783
72.6667	-0.0371	8.0082	0.0006	8.0088
72.7	-0.0397	7.64	0.0019	7.6419
72.7333 72.7667	-0.0371 -0.0358	7.3375 6.9562	0.0006	7.3381 6.9562
72.7667	-0.0364	6.6406	0	6.6406
72.8333	-0.0334	6.3513	0	6.3513
72.8667	-0.0341	6.0883	0.0019	6.0902
72.9	-0.0321	5.7596	0.0019	5.7615
72.9333	-0.0325	5.5097	0.0006	5.5103
72.9667	-0.0295	5.2862	0.0006	5.2868
73	-0.0305	4.9837	0.0006	4.9843
73.0333	-0.0292	4.7865	0.0006	4.7871
73.0667	-0.0269	4.5498	0.0019	4.5517
73.1	-0.0282	4.3789	0.0006	4.3795
73.1333	-0.0311	4.1553	0.0006	4.1559
73.1667	-0.0272	3.9844	0.0019	3.9863
73.2 73.2333	-0.0305 -0.0275	3.866	0.0019	3.8679
73.2667	-0.0275	3.6951 3.5373	0.0006 0.0019	3.6957 3.5392
73.2007	-0.0232	3.3006	0.0006	3.3012
, 5.5	5.0202	3.3000	0.0000	3.3012



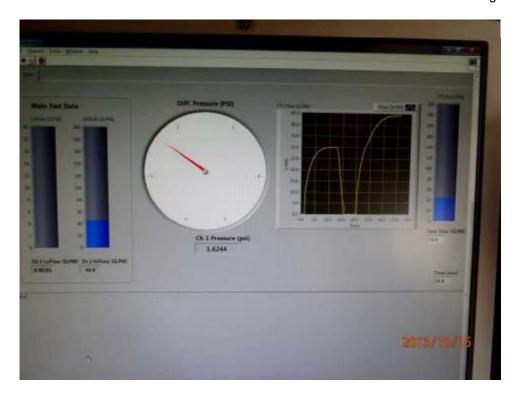
Areva NP Inc. Project No. G100982213SAT-003 October 16, 2013

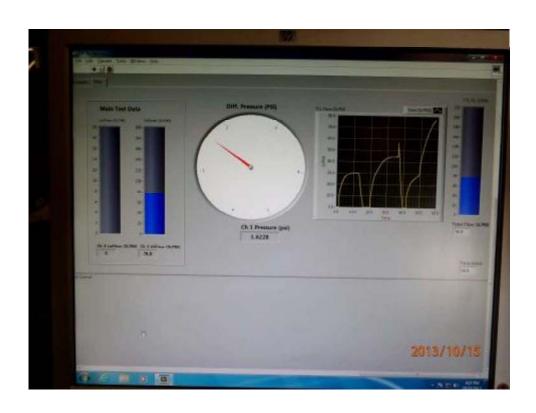
Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
73.3333	-0.0305	3.2217	0.0006	3.2223
73.3667	-0.0321	3.0244	0.0006	3.025
73.4	-0.0279	0.0131	0.0006	0.0137
73.4333	-0.0308	0.0131	0	0.0131
73.4667	-0.0325	0.0131	0.0006	0.0137
73.5	-0.0298	0.0263	0.0006	0.0269



APPENDIX C Photographs

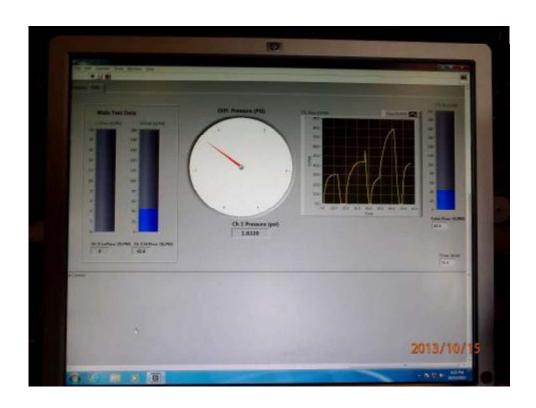




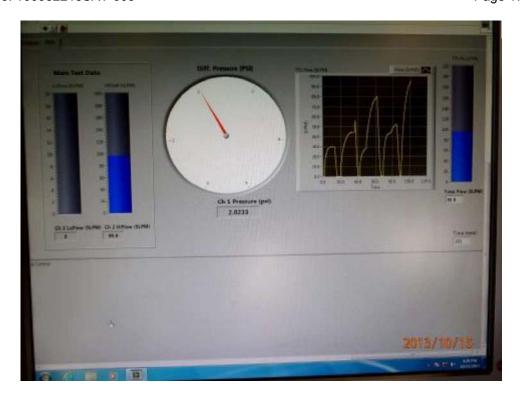


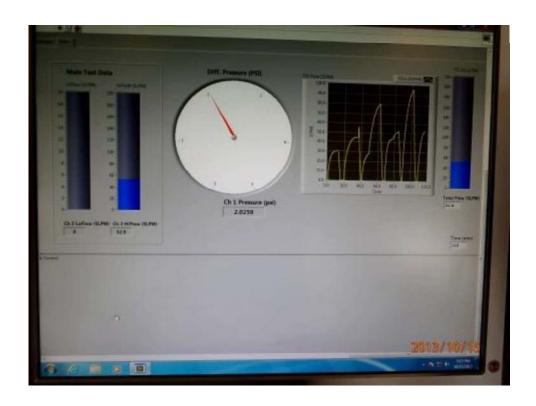




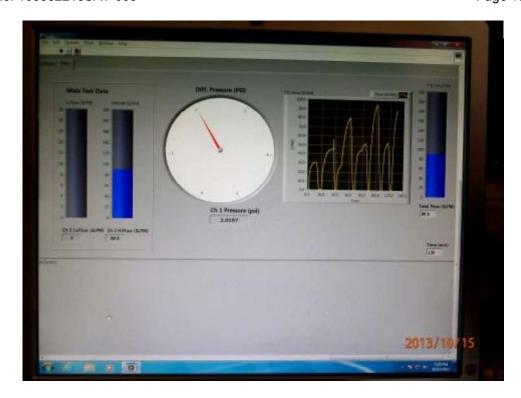


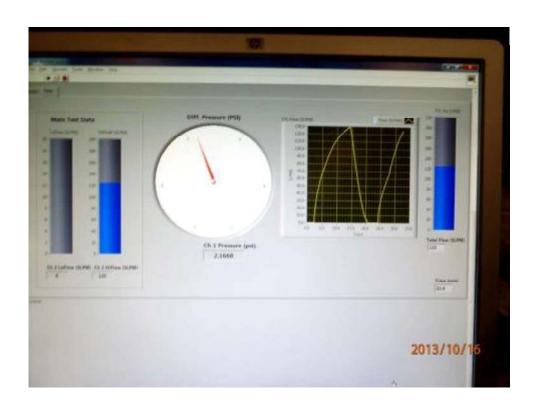




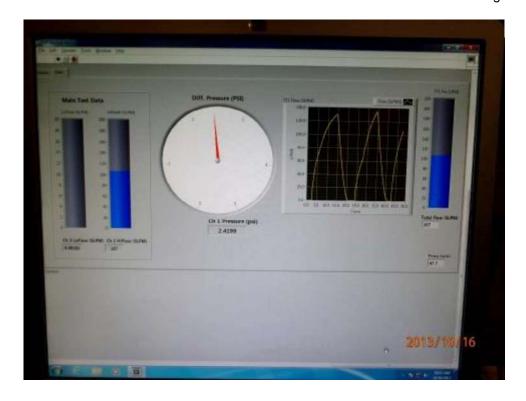






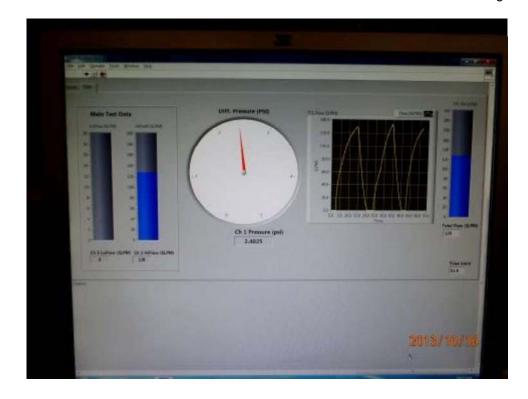


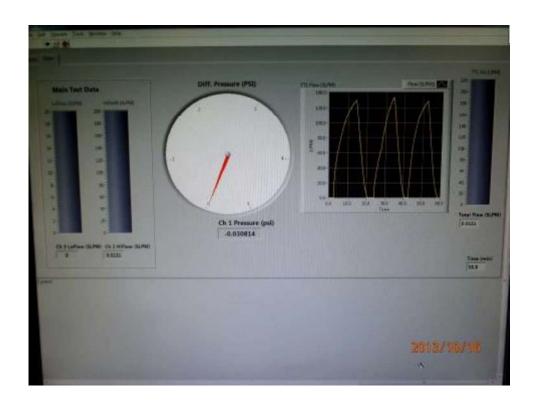




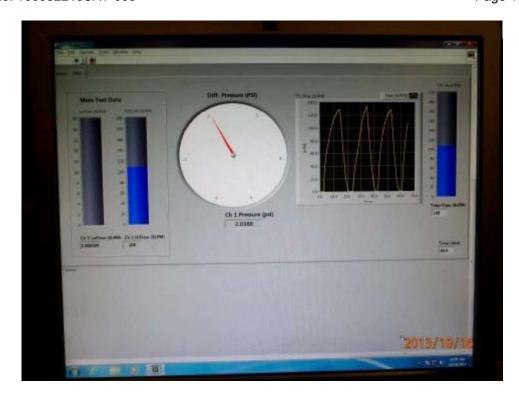


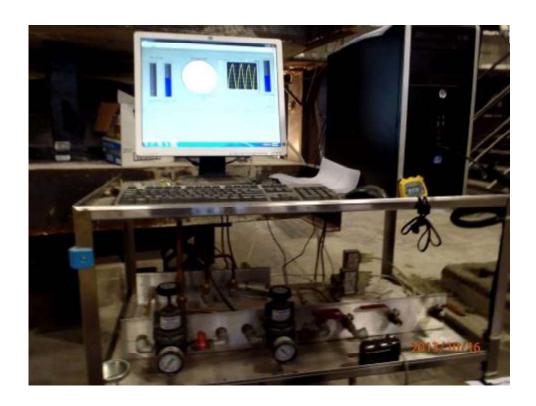






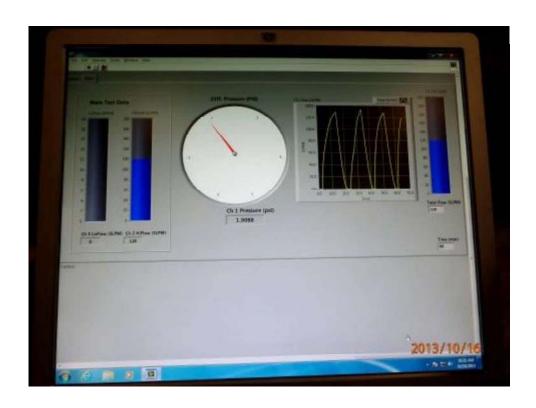








































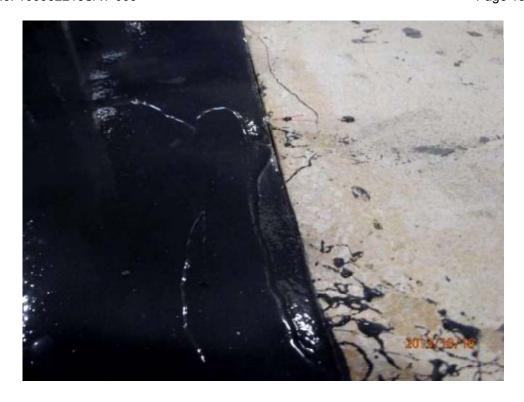






































APPENDIX D Test Plan



AREVA

20004-019 (11/20/2012)

AREVA NP Inc.

Engineering Information Record

Document No.: 51 - 9209210 - 001

Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

Mike Dey Staff Engineer, Intertek

Michael A. Brown Quality Supervisor

Page 1 of 27



				20004-019 (11/20/2012)	
AREVA				Document No.: 51-9209210-001	
	Detailed Test Plan for	Conducting MC	X Seismic P	ressure Test 3	
Safety Related?	YES NO				
Does this document est	ablish design or technic	al requirements	7 YE	s 🛮 no	
Does this document cor	ntain assumptions requir	ring verification	? YE	s 🛭 no	
Does this document cor	stain Customer Require	d Format?	YES 🗵	МО	
	\$	Signature B	lock		
Name and Title/Discipline	Oignature	P/LP, R/LR, A-ORF, A	Date	Pages/Sections Prepared/Reviewed/ Approved or Comments	
Aaron Adrian Princ Des Eng Spec II / PEYF1-A		Р	10-10-13	All	
 Victor Kaldenbach Princ Des Eng Spec II / PEYF1-A		R	10/10/2013	All	
Scott Grossback Manager Tech Ops / PEYF1-A		۸	10/13	All	
Perry Calos Project Manager/ IBL-A		A	10/10/13	All	
Note: PAP designates RALR designates A-CRF designate A designates Ap	Preparer (P), Lead Prep Reviewer (R), Lead Re ss Project Manager App prover/RTM – Verifica	rover of Custon	ner Required er Independen	Format (A-CRF)	
MOX Services concurren			Engineer	14Oct13	
	Name / Title		and the second second	Date	
				Page 2	
				1 490 2	





20004-019 (11/20/2012) Document No.: 51-9209210-001

Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

Record of Revision

Revision No.	Pages/Sections/ Paragraphs Changed	Brief Description / Change Authorization
000	All	Initial Issue. This document contains the main body of the report (pages 1-18), Appendix A (1 page), Appendix B (1 page), Appendix C (4 pages), and Appendix D (2 pages) for a total of 26 pages.
001	General	Revision 000 of this document transposed the document number from 9209210 to 9209201. The electronic files were correctly entered in Documentum as 9209210. Revision 001 of this document will correct the document number to 9209210.
001	General	Modified to allow this test to be conducted on Pressure Test 4A in the event Pressure Test 4 fails and the repair method described for Pressure Test 4A is applied. Added the requirement that the final test report for Seismic Pressure Test 3 clearly describe which test specimen this seismic test is conducted on (Pressure Test 4 or Pressure Test 4A). All changes are identified by revision bars in the right hand margin.
001	General	This document contains the main body of the report (pages 1-19), Appendix A (1 page), Appendix B (1 page), Appendix C (4 pages), and Appendix D (2 pages) for a total of 27 pages.



Page



Document No.: 51-9209210-001

Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

Table of Contents

SIGNA	ATURE	BLOCK2
RECC	RDOF	REVISION3
LIST	OF TAB	LES6
ACRO	NYMS	7
BACK	GROU	ND8
1.0	PURP	OSE 8
2.0	10000	CTIVE 8
2.0	2.1	Test Deck Description
	2.2	Test Description 9
	2.3	Critical Characteristics and Limiting Parameters Being Tested
3.0		PTANCE CRITERIA
4.0		ONSIBILITIES
	4.1	MOX Services
	4.2	AREVA
	4.4	Other Subcontracted Entities 12
- 0		
5.0		CUREMENT PLAN
	5.1 5.2	Penetration Seal Materials 13 Test Deck/Test Slab 14
	5.3	Penetrating Items 14
		-
6.0		IAL PRECAUTIONS
	6.1	Precautions for Construction of Test Assemblies
	6.2 6.3	Precautions for Installation of Seal Assemblies
		Precautions for Conducting Seismic Pressure Tests
7.0		EQUISITES
	7.1	General Test Configuration Requirements
	7.2	Safety Related Materials
	7.3	Dimensioned Drawings
	7.4	Test Configuration
8.0		ASSEMBLY CONSTRUCTION15
	8.1	Test Slab Construction
	8.2	Penetration Seal Installation
	8.3	Pre-Test Verifications
9.0	PROC	EDURE



Page



Document No.: 51-9209210-001

Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

Table of Contents (continued)

	9.1	Seismic Pressure Test Apparatus	.16
	9.2	Process	.16
	9.3	Post Test Examination	.17
10.0	DATA	SYSTEMS	.18
11.0	TEST	REPORT	.18
12.0	REFER	RENCES	.19
APPEN	DIX A :	TEST DECK/TEST SLAB DRAWINGS.	A-1
APPEN	DIX B:	TEST PENETRATION DRAWINGS	B-1
APPEN	DIX C:	BILL OF MATERIALS	C-1
APPEN	IDIX D :	DESIGN VERIFICATION CHECKLIST	D-1





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

List of Tables

TABLE 9-1: DIFFERENTIAL SEISMIC PRESSURE TEST LEVELS......16





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

ACRONYMS

CGD Commercial Grade Dedication
CGI Commercial Grade Item
GLB Galvanized Ladder Back
GS Galvanized Steel

GSB Galvanized Solid Bottom IROFS Items Relied On For Safety

MOX Mixed Oxide

MFFF Mixed Oxide Fuel Fabrication Facility

PCCS Powder Coated Carbon Steel

QA Quality Assurance
QL Quality Level

RGS Rigid Galvanized Steel

SS Stainless Steel

SSC Structures, Systems and Components

SSSB Stainless Steel Solid Bottom

w.g. Water Gauge

Penetration Seal Materials

QSil 5558MC Quantum Silicones QSil 5558MC Silicone Elastomer







Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

BACKGROUND

AREVA NP (AREVA) is assisting Shaw AREVA MOX Services (MOX Services) in the development and implementation of a penetration seal program for the Mixed Oxide Fuel Fabrication Facility (MFFF). One aspect of the MOX penetration seal program includes conducting various types of qualification tests of penetration seal assemblies to substantiate the performance capabilities of specific penetration seal designs. Seismic pressure testing is one type of qualification testing that needs to be performed in order to demonstrate the capability of MOX penetration seal designs to survive a seismic event. Other types of qualification testing, such as fire testing and pressure testing of penetration seal assemblies, are addressed by other test plans.

1.0 PURPOSE

The purpose of this test plan is to define the test assembly, test methods and acceptance criteria for conducting seismic pressure test in support of the MOX penetration seal program.

This test plan defines the test methods, acceptance criteria and test report documentation requirements for penetration seal Seismic Pressure Test 3. Additionally, this detailed test plan defines the roles and responsibilities of MOX Services, AREVA, the selected testing laboratory, and any other subcontracted entity engaged in support of seismic pressure testing efforts.

This detailed test plan also describes the procurement plan for materials associated with penetration seal Seismic Pressure Test 3 and identifies the entities responsible for procuring the various components of the test assembly based on the quality level assigned to each component.

This test plan also establishes minimum quality requirements for the penetration seal materials used in the test assembly and links quality requirements in the AREVA Quality Assurance (QA) program to customer/project quality requirements.

The configuration being tested by Seismic Pressure Test 3 is the same assembly that was tested under Pressure Test 4 and 4A (51-9199513, latest revision). This configuration is a 48" x 34" penetration containing electrical raceway commodities sealed with an 8" depth of silicone elastomer material (QSil 5558MC).

2.0 OBJECTIVE

The primary objective of this test plan is to evaluate the seismic resistance capabilities of the test assembly using alternating pressures at the air pressure increments above atmospheric pressure provided in Section 9.2.

The specific configuration to be tested is described below. Critical characteristics and the associated limiting parameters that will be substantiated by a successful test are also provided.

2.1 Test Deck Description

The test deck will consist of a 12" thick concrete slab measuring approximately 96" x 96" (8' x 8') [Note: Final test slab size to be determined by Intertek and documented in the final test report]. Within this slab will be one (1) precast 48" x 34" opening sized to replicate penetrations found in the MOX facility. The test deck will be horizontally oriented with a hemispherical 72" diameter steel pressure vessel mounted above and below the precast opening in the slab.

Note: It is anticipated that the slab with the silicone elastomer seal material used for Pressure Test 4 and 4A will not be damaged during Pressure Test 4 and 4A and will be available for reuse in this seismic pressure test. For the purposes of Seismic Pressure Test 3, no changes will be made to the silicone elastomer seal installed for Pressure Test 4 and 4A (51-9199513, latest revision).





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

Additionally, most of the openings (penetrations) in the MOX facility have been cast with a $\frac{3}{1}$ " bevel on both sides of the opening. For testing and qualification purposes, this feature is considered aesthetic, and it has no adverse effect on the functional performance of the penetration seal installation. In fact for some applications, such as in the case of pressure resistant penetrations seals, the bevel provides a benefit over non-beveled openings. Therefore, for the purposes of the penetration seal test program, the bevel feature will not be included for the seismic pressure test covered in this test plan.

Drawings showing the general layout of the test deck (test slab) for this seismic pressure test can be found in Appendix A.

Note: If the slab from Pressure Test 4 and 4A was damaged during testing or is otherwise not available, this test plan will require revision.

2.2 Test Description

The opening to be sealed and tested in Seismic Pressure Test 3 is a 48" x 34" blockout containing electrical raceways (e.g., cable trays, conduits, wireways). Three sides of the opening will be unrepaired concrete while the remaining side will have three small repairs with a maximum area of less than one (1) square inch and a maximum depth of 3/16". The repairs will be made using Panel Patch by Nox-crete. All sides of the opening will then be coated with Keeler & Long KL 3500 Kolor-Poxy Self Priming Surfacing Enamel. The Keeler & Long KL 3500 Kolor-Poxy Self Priming Surfacing Enamel will then be mechanically removed on two adjacent sides with a needle gun scaler and on the other two sides with a masonry grinding wheel. The test will be performed with the test deck oriented in the horizontal position, and pressurized on the top side.

Note: The Nox-crete and Keeler & Long KL 3500 Kolor-Poxy Self Priming Surfacing Enamel were installed on the slab during construction of Pressure Test 2 (51-9196561-002). Keeler & Long KL 3500 Kolor-Poxy Self Priming Surfacing Enamel removal and subsequent penetration seal material adherence were performed and evaluated in Pressure Test 4 (51-9199513, latest revision).

An opening size of 34" x 48" was selected because it represents the largest opening size that can be tested with the current pressure chamber design, when considering that the most challenging geometric shape for a flat plate with respect to flexural response occurs when the Length is \approx 1.4 times the Width (34" x 1.4 = 47.6").

All sides of the opening will be unlined, with the previously installed enamel surface coating removed. The penetrating items for this blockout will include the following:

- (1) 6" diameter empty rigid galvanized steel (RGS) conduit capped on one side
- (1) 3" diameter empty rigid galvanized steel (RGS) conduit capped on one side
- (1) ¾" diameter empty rigid galvanized steel (RGS) conduit capped on one side
- (1) 4" diameter empty stainless steel (SS) conduit capped on one side
- (1) 3" diameter empty stainless steel (SS) conduit capped on one side
- (1) ¾" diameter empty stainless steel (SS) conduit capped on one side
- (1) 4"x4" powder-coated carbon steel (PCCS) wireway without cables or cover
- (1) 4"x4" galvanized steel (GS) wireway without cables or cover
- (1) 4"x4" stainless steel (SS) wireway without cables or cover
- (1) 18"x4" galvanized steel, solid-bottom (GSB) cable tray without cables or cover
- (1) 18"x4" galvanized steel, ladder-back (GLB) cable tray without cables or cover
- (1) 18"x4" stainless steel, solid-bottom (SSSB) cable tray without cables or cover





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

The opening will be sealed with eight (8) inches of Quantum Silicones QSil 5558MC Silicone Elastomer (QSil 5558MC) with no permanent damming installed in and around the various penetrating commodities. The penetration seal material will be located within the opening as shown in Appendix B.

The test will be performed with the test deck oriented in the horizontal position.

Note: If Pressure Test 4 failed the pressure test, then Seismic Pressure Test 3 will be conducted on the test specimen used for Pressure Test 4A. If Pressure Test 4A also failed, then this test plan will require revision prior to conducting this seismic pressure test.

2.3 Critical Characteristics and Limiting Parameters Being Tested

The penetration seal material (QSiI 5558MC) will be tested against an unlined opening and against various penetrating commodity materials (galvanized steel, stainless steel, powder coated carbon steel) to ensure their bonding characteristics along the "bond area".

The specific critical characteristics and associated limiting parameters being tested for Seismic Pressure Test 3 are as follows:

- Unlined openings with electrical raceway penetrants.
 - · RGS conduits
 - · SS conduits
 - · SS wire ways
 - · GS wire ways
 - · PCCS wire ways
 - · GSB cable trays
 - · GLB cable trays
 - · SSSB cable trays
- Penetration seal to concrete surface interface of 164 lineal inches, which equates to a total bond area of 1,312 sq. in. for the 8" thick seal.
- Penetration seal to powder coated carbon steel surface interface of approximately 24 lineal
 inches which equates to a total bond area of approximately192 sq. in. for the 8" thick seal. The
 reduction in surface area (pressurized area) resulting from the installation of the PCCS wireway is
 negligible.
- Penetration seal to galvanized steel surface interface of approximately 123 lineal inches which
 equates to a total bond area of approximately 984 sq. in. for the 8" thick seal. The reduction in
 surface area (pressurized area) resulting from the installation of the RGS conduits is
 approximately 43.5 sq. in. The reduction in surface area (pressurized area) resulting from the
 installation of the GSB and GLB cable trays and GS wireway is negligible.
- Penetration seal to stainless steel surface interface of approximately 104 lineal inches which
 equates to a total bond area of approximately 834 sq. in. for the 8" thick seal. The reduction in
 surface area (pressurized area) resulting from the installation of the SS conduits is approximately
 26 sq. in. The reduction in surface area (pressurized area) resulting from the installation of the
 SSSB cable tray and SS wireway is negligible.
- A relationship of "pressurized area" to "bond area" of 1,562.5:3,322 (1:2.13) based on the following:
 - Pressurized area = 1,632 sq. in. seal surface minus 69.5 sq. in. conduit cross section = 1,562.5 sq. in.





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

Bond area = 1,312 sq. in. concrete plus 192 sq. in. PCCS plus 984 sq. in. GS, plus 834 sq. in. SS = 3,322 sq. in.

Note: In the event Pressure Test 4 fails due to excessive leakage at one or more commodity interfaces, the values listed above for bond areas are not valid. New bond area ratios will have to be developed based on the actual test results of Pressure Test 4 and 4A.

3.0 ACCEPTANCE CRITERIA

Seismically qualified penetration seals at the MOX facility are required to remain in the opening (penetration) during and after a Design Earthquake seismic event. In order to demonstrate that a penetration seal will remain in place, the seal will have to be evaluated for two conditions: 1) The seismic inertia of the self-weight of the seal will have to be evaluated; and 2) The seismic deflection of the commodities penetrating the seal will have to be considered.

Seismic pressure testing will be used to evaluate the seismic inertia of the self-weight of the seal assembly. This will be accomplished by applying a pressure to alternating sides of the penetration seal to demonstrate that the seal will not become dislodged from the opening due to the seismic inertia of the self-weight of the seal. The seismic deflection of commodities that penetrate the seal will be addressed by a separate analysis.

Ultimately, the overall seismic qualification of MOX penetration seal assemblies will be captured in a penetration seal seismic qualification report that will tie together the results of seismic pressure testing with other analyses performed to address seismic deflection of commodities that penetrate the seal.

The acceptance criterion for evaluating the seismic inertia of the seal self-weight is calculated in MOX Services Calculation "Penetration Seal Seismic Requirements" [Reference 12.1] and expressed as an equivalent pressure. Testing at this equivalent pressure will qualify that a penetration seal assembly will remain in place (i.e., the penetration seal cannot become dislodged from the opening or otherwise catastrophically fail such that a substantial leakage path is created) during the design earthquake seismic event.

The relative movement of the items penetrating a seal and the movement of the wall / seal during a seismic event are not considered as a part of this test. A separate engineering evaluation is required to evaluate the effect of movement on a seal with penetrating items during a seismic event.

No pressure inducing events are required to be considered concurrently with a seismic event.

Table 9-1 identifies the differential pressure levels (stages) for conducting seismic pressures tests, as well as, the acceptance criteria in order for the penetration seal assemblies to meet the seismic pressure testing requirements.

4.0 RESPONSIBILITIES

The following roles and responsibilities apply to this test plan.

4.1 MOX Services

- 4.1.1 Provide review and concurrence of this detailed seismic pressure test plan.
- 4.1.2 Provide concurrence for any revisions made to this test plan during test specimen construction activities.
- 4.1.3 Provide some of the materials for test assembly construction from MOX Services surplus or scrap (if available).
- 4.1.4 Reserves the right to witness seismic pressure tests.





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

4.2 AREVA

- 4.2.1 Develop and revise (if necessary) this detailed seismic pressure test plan.
- 4.2.2 Provide management and oversight of all aspects of the MOX penetration seal test program.
- 4.2.3 Select the seismic pressure testing facility and establish sub-contract agreements. The testing laboratory selected for performance of this seismic pressure test is Intertek Testing Services NA, Inc., Elmendorf, TX
- 4.2.4 Provide engineering instructions to the testing laboratory for performance of the test including test parameters, acceptance criteria, requirements for documenting the test results in a final test report, etc.
- 4.2.5 Procure all primary penetration seal materials, devices and components (i.e., any materials, devices and components intended to replicate future Safety Related (QL-1) designs to be installed in the MOX facility) as designated in the procurement plan section (Section 5.0) of this test plan.
- 4.2.6 Notify MOX Services at least 10 days prior to test date to facilitate MOX Services decision to witness the seismic pressure test.
- 4.2.7 Witness seismic pressure test.
- 4.2.8 Perform post-test examinations.
- 4.2.9 Review, approve and issue final test reports.

4.3 Testing Laboratory (Intertek Testing Services NA, Inc.)

- 4.3.1 Notify AREVA at least 5 days prior to the start of test assembly construction activities.
- 4.3.2 Construct test decks in accordance with this test plan and AREVA direction.
- 4.3.3 Procure test deck materials and any other test assembly components identified under the Testing Laboratory scope in the procurement plan section (Section 5.0) of this test plan.
- 4.3.4 Procure testing equipment necessary for seismic pressure testing services in accordance with this test plan and verify that the testing equipment is properly calibrated.
- 4.3.5 Provide seismic pressure testing services in accordance with this test plan.
- 4.3.6 Assist AREVA, as necessary, in conducting detailed post-test destructive examinations of the test assemblies.
- 4.3.7 Dispose of test assemblies upon completion of the seismic pressure tests.
- 4.3.8 Generate final test reports in accordance with test plan requirements

4.4 Other Subcontracted Entities

There are no other Subcontractors for this seismic pressure test plan.

5.0 PROCUREMENT PLAN

This penetration seal seismic pressure test plan involves many elements beyond the penetration seal material being qualified. Some of these elements include the test deck or test slab, various fasteners for securing laboratory instrumentation to the test assembly, etc. Not all elements of the test assembly are required to be procured to the same quality level as the penetration seal material, which must be capable of satisfying the quality requirements of the end product (i.e., QL-1 qualified penetration seal assemblies for plant applications). The following procurement plan takes into consideration the required quality level of the various materials required for





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

these penetration seal seismic pressure tests and prescribes an approach for material procurement which considers cost, schedule and quality requirements.

5.1 Penetration Seal Materials

The vast majority of penetration seals that will be installed throughout the MFFF are designated QL-1. MOX Services defines QL-1 in PP9-1, "SSC Quality Levels & Marking Design Documents" [Reference 12.2] as follows:

QL-1 SSCs are typically IROFS (all IROFS are QL-1 and may be either SSCs or Administrative Controls) credited in the Integrated Safety Analysis with a required function to prevent or mitigate design basis events such that high-consequence events are made highly unlikely, intermediate-consequence events are made unlikely; or to prevent criticality. For example, the failure of an IROFS item could cause:

- Loss of a primary confinement feature leading to release of material resulting in exceeding 10CFR70.61 performance requirements;
- 2. Failure to satisfy the double contingency principle for the prevention of a criticality accident; or
- Loss of other safety function required to meet 10CFR70.61 performance requirements.

This definition correlates with the following definition of "Nuclear Safety Related" in AREVA Administrative Procedure (AP) 1702-25, "Assignment of Nuclear Safety Classification to Products and Services" [Reference 12.3]:

Definition of "Nuclear Safety Related"

Company products and services are considered to be nuclear safety related if they involve the evaluation, specification, design or change in design, operation, or performance of structures, systems, and components which must function directly, or must support other systems which function, to ensure any of the following:

- The integrity of the reactor coolant pressure boundary
- · The capability to shut down the reactor and maintain it in a safe shutdown condition
- The capability to prevent or mitigate the consequences of accidents which could result in potential
 offsite radiation exposures greater than accepted limits.

On this basis, permanent penetration seal materials used in this test program shall be procured by AREVA or supplied by MOX Services and suitably base-lined so that future procurements of the same commercial materials can undergo the commercial grade dedication process in support of Nuclear Safety Related (i.e., MOX QL-1) plant installations. Only the primary seal material specified as a part of the final seal design and which are left in place during testing become an integral part of the seal assembly and need to be base-lined for future dedication of similarly procured materials.

The quality level of the penetration seal materials procured for this test plan is Non-Safety.

Note: Commercial Grade Dedication (CGD) must be performed for Commercial Grade Items (CGIs) used in Safety Related applications when procured from suppliers where specific quality controls for nuclear applications cannot be imposed in a practical manner in accordance with 56-9141754-001, "AREVA NP Inc. Quality Assurance Program" [Reference 12.4]. However, none of the seal materials to be procured and used in the test program are intended or approved for installation in the MOX facility. Therefore, CGD of penetration seal materials used for test purposes is not required.

For this seismic pressure test, the following materials shall be procured by AREVA and base-lined for future dedication activities.

1. Quantum Silicones QSil 5558MC Silicone Elastomer





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

5.2 Test Deck/Test Slab

The test deck will be used to simulate a boundary in which the penetration seal assemblies may be installed. The test deck is not considered an integral part of the penetration seal assembly being tested and therefore is not intended to replicate MOX-specific plant conditions and not considered integral in bounding the performance of the penetration seal assemblies (e.g., concrete blend, compressive strength, rebar size and spacing). The test deck will be comprised of normal weight reinforced concrete.

The opening cast into the test deck will simulate certain features consistent with MOX penetrations (e.g., chamfered edges when deemed relevant, relatively smooth interior finishes, etc.) as defined by detailed test plan drawings contained in Appendix A.

The testing laboratory shall be responsible for procuring all materials and components associated with the construction of the test deck, unless otherwise specified below. The test deck shall comply with the requirements of the approved detailed test plan drawings contained in Appendix A, and in accordance with the testing facility's Quality Assurance Program.

The quality level of the test deck is Non-safety.

5.3 Penetrating Items

Penetrating items (e.g., conduits, cable trays and wireways) will be used in this seismic pressure test to simulate MOX-specific plant commodities during the seismic pressure test but are not considered an integral part of the penetration seal assembly being tested. Therefore, the quality level of the penetrating items is **Non-safety**.

Penetrating items for this seismic pressure test will come from one of two sources: MOX Services or the testing laboratory. MOX Services supplied items are identified on the MOX Services Bill of Materials in Section C.2 of Appendix C. Items provided by the testing laboratory are identified on the Testing Laboratory Bill of Materials in Section C.3 of Appendix C.

6.0 SPECIAL PRECAUTIONS

6.1 Precautions for Construction of Test Assemblies

Observe testing facilities safe work practices for construction, lifting, and moving of test assemblies.

6.2 Precautions for Installation of Seal Assemblies

Observe specific precautions recommended by seal material manufacturer as noted on product literature and material safety data sheets contained in AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5].

6.3 Precautions for Conducting Seismic Pressure Tests

Proper safety precautions shall be exercised to preclude personnel from direct exposure to loss of pressure events, unexpected disengaging of testing equipment from the test deck, and all other related hazards.

7.0 PREREQUISITES

7.1 General Test Configuration Requirements

The test assembly, including slab layout and penetration seal configurations shall be as specified by AREVA and in accordance with the drawings and information contained in Appendix A of this test plan,





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

and AREVA NP Inc. Document 01-9198306, Installation Instruction Manual for MOX Penetration Seal Test Program [Reference 12.5].

7.2 Safety Related Materials

Penetration seal materials that are purchased **Non-Safety** for this test program but are to be base-lined for future Nuclear Safety Related via the Commercial Grade Dedication process are indicated on the AREVA Bill of Materials (Appendix C.1).

7.3 Dimensioned Drawings

All test articles shall conform to the dimensioned drawings supplied by AREVA and contained in Appendix A and B of this test plan. Any differences between designed and constructed/tested assemblies shall be noted in final drawings contained within the test report.

7.4 Test Configuration

All test articles shall be securely fastened to the test apparatus by the laboratory. All openings shall be sealed in accordance with test plan instructions, drawings (Appendix A and B) and AREVA Document 01-9198306 [Reference 12.5].

8.0 TEST ASSEMBLY CONSTRUCTION

8.1 Test Slab Construction

The Testing Laboratory shall construct the test slab, including location and size of openings and placement of penetrating items, in accordance with the drawings contained in Appendix A of this Test Plan.

AREVA QC (or approved designee) shall conduct an inspection of the test slab for compliance with the approved Test Plan drawings prior to installation of individual penetration seal test assemblies. Any differences between the approved Test Plan drawings and the as-built test slab configuration shall be corrected (if deemed necessary by the ARVEA Test Engineer) or noted by the QC Inspector (if correction is not required). Completion of this verification shall be documented as required by AREVA Document 01-9198306, Installation Instruction Manual for MOX Penetration Seal Test Program.

8.2 Penetration Seal Installation

AREVA (or approved designee) shall install the penetration seal test assemblies in accordance with the drawings contained in Appendix A of this Test Plan and in accordance with AREVA Document 01-9198306, Installation Instruction Manual for MOX Penetration Seal Test Program.

QA/QC verification of penetration seal installations shall be documented as required by AREVA Document 01-9198306, Installation Instruction Manual for MOX Penetration Seal Test Program.

8.3 Pre-Test Verifications

Prior to conducting the seismic pressure test for each test assembly, the AREVA Test Engineer shall sign-off indicating that the test article (test penetration) is complete and ready for testing as required by AREVA Document 01-9198306, Installation Instruction Manual for MOX Penetration Seal Test Program.





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

9.0 PROCEDURE

9.1 Seismic Pressure Test Apparatus

The seismic pressure test apparatus to be used for this seismic pressure test shall be constructed and maintained by the testing laboratory. Two hemispherical 72" diameter steel pressure vessels shall be used to construct the assembly. One side shall be used to induce the testing pressures above atmospheric pressure based on Table 9-1, while the other side shall measure the pressure increase or "leakage" through the penetration. The test apparatus shall be "leak-tight" and substantial enough to withstand the pressures created for test purposes. Attachment shall be sufficient to withstand the forces imposed on the pressure vessels during the test.

9.2 Process

The differential pressures calculated for seismic pressure testing purposes, as they apply to MFFF penetration seal designs, are discussed in Calculation DCS01-ZEQ-EQ-CAL-M-10118-0 [Reference 12.1]. The seismic pressure testing will be performed using the requirements for the seal material being tested based upon the seal weight per square foot found in Calculation DCS01-ZEQ-EQ-CAL-M-10118-0 [Reference 12.1].

The pressure levels to be used for the seismic pressure test are specified in Table 9-1. The pressure used in this seismic pressure test is intended to bound a calculated differential pressure based on the penetration seal material's weight per square foot as detailed in the referenced calculation, with additional margin. The penetration seal seismic requirements in the referenced calculation are based upon the seal system type and the seal material.

A hold time of 5 minutes has been established for each test stage to ensure that sufficient time at pressure is maintained to confirm that the penetration seal will not catastrophically fail (i.e., will not become dislodged from the opening. This hold time provides reasonable assurance that the penetration seal meets the requirements stated in Calculation DCS01-ZEQ-EQ-CAL-M-10118-0 [Reference 12.1].

Test Stage	Differential Pressure (inch w.g.)	Required Hold Time (minutes)	Acceptance Criteria	Basis for the Selected Differential Pressure
1-4	45 (Note 1)	5	Penetration Seal Remains in Opening (Does not become dislodged)	Testing at this differential pressure meets the seismic demand expressed as a pressure [Reference 12.1]

Table 9-1: Differential Seismic Pressure Test Levels

Note 1: For Seismic Pressure Test 3, a nominal density of 85 pcf was used for silicone elastomer seal material (QSil 5558MC) installed for the purposes of determining the test penetration seal's weight per square foot. 85 pcf bounds the installed seal material density, with margin. 85 pcf times a seal depth of 8", yields a seal weight of approximately 56.7 psf. Based on Figure B-2.1 of Reference 12.1, the corresponding seismic pressure for a seal weight of 56.7 psf is approximately 44.7 inches w.g. Therefore, for Seismic Pressure Test 3 an equivalent seismic pressure of 45 inches w.g. shall be used.





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

Each test assembly shall be attached to the seismic pressure test apparatus and subjected to the pressures identified in Table 9-1 as described below.

- 9.2.1 For Stage 1, the test assembly shall be attached to the seismic pressure test apparatus and subjected to air pressure test at the select pressure level identified in Table 9-1. Once this pressure has been obtained, the pressure shall be maintained for the hold time specified in Table 9-1. If the penetration seal catastrophically fails during this time, the time of failure shall be noted and the test shall be stopped.
- 9.2.2 Once the designated hold time for Stage 1 has been achieved, the pressure shall be vented from the test chamber. Next, the pressure identified in Table 9-1 for Stage 2 shall be applied to the opposite side of the penetration seal and held for the designated hold time. If the penetration seal catastrophically fails during this time, the time of failure shall be noted and the test shall be stopped.
- 9.2.3 Once the designated hold time for Stage 2 has been achieved, the pressure shall be vented from the test chamber. Next, the pressure identified in Table 9-1 for Stage 3 shall be applied to the original side of the penetration seal and held for the designated hold time. If the penetration seal catastrophically fails during this time, the time of failure shall be noted and the test shall be stopped.
- 9.2.4 Once the designated hold time for Stage 3 has been achieved, the pressure shall be vented from the test chamber. Finally, the pressure identified in Table 9-1 for Stage 4 shall be applied to the opposite side of the penetration seal and held for the designated hold time. If the penetration seal catastrophically fails during this time, the time of failure shall be noted and the test shall be stopped.
- 9.2.5 Following completion of Stage 4 seismic pressure testing, the pressure shall be vented from the test chamber. At this point, the test may continue at the discretion of the AREVA test engineer and the testing laboratory manager in charge. Subsequent pressures, and hold times shall be recorded as directed by the AREVA test engineer.

NOTE: The pressure used for the testing performed above is based on a seal material depth of 8 inches and a seal material density of 85 pcf. Should the test be successful, possible subsequent testing pressures may include those for a 10 inch depth of material (56 inches w.g.) and a 12 inch depth of material (67 inches w.g.).

9.2.6 If at any pressure level (or test stage) the penetration seal becomes dislodged from the opening or otherwise catastrophically fails, the seismic pressure test shall be terminated and the time to failure and pressure at which the failure occurred shall be recorded.

9.3 Post Test Examination

Following completion of the seismic pressure test, visual and destructive (if deemed necessary) post-test examinations shall be performed. These examinations shall include, but not necessarily be limited to, the following:

Visual observations of penetration seal condition including:

- · Integrity of seal and conditions on the exposed and unexposed side of the penetration
- · Location of any penetration seal degradation
- · Condition of seal to barrier interface
- Condition of seal to penetrating item interfaces

Once visual observations are complete, destructive examinations may be used to obtain additional information or gain extra insights into penetration seal performance during the seismic pressure tests.

Upon completion of post-test inspections, the test assembly shall be re-purposed for use in Pressure Test 4R





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

10.0 DATA SYSTEMS

During the seismic pressure tests, the various data systems connected to the test apparatus (blowers, anemometers, manometers, etc.) shall be controlled and monitored by the testing laboratory. Data recorded for these components shall be compiled and contained in the seismic pressure test report.

11.0 TEST REPORT

The testing laboratory shall submit a report on the results of the test. The test report shall contain the collected data and required quality control documentation. The final test report shall be prepared in sufficient detail to summarize the total testing activity. The final report shall include as a minimum:

- Date of test
- · Location of test
- Description of test apparatus and test articles (including a description of which pressure test assembly
 was used for the seismic pressure test; Pressure Test 4 or Pressure Test 4A)
- · Calibration documentation for all data systems connected to the test apparatus
- · Test procedures used
- · Acceptance criteria
- · Provide quality control records
- · Color digital photographs of the test project





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

12.0 REFERENCES

- 12.1 Shaw AREVA MOX Services Calculation DCS01-ZEQ-EQ-CAL-M-10118-0, "Penetration Seal Seismic Requirements"
- 12.2 Shaw AREVA MOX Services Procedure PP9-1, Revision 14, SSC "Quality Levels & Marking Design Documents"
- 12.3 AREVA NP Inc. Procedure 1702-25, Revision 018, "Assignment of Nuclear Safety Classification to Products and Services"
- 12.4 AREVA NP Inc. Document 56-9141754-001, "AREVA NP Inc. Quality Assurance Program"
- 12.5 AREVA NP Inc. Document 01-9198306 (latest revision), "Installation Instruction Manual for MOX Penetration Seal Test Program"
- 12.6 AREVA NP Inc. Document 51-9199513 (latest revision), "Detailed Test Plan for Conducting MOX Pressure Test 4"

Retrieval of Reference Documents

References 12.1 and 12.2 of this document were not entered into the AREVA NP Records Management system because they can be retrieved using the Shaw AREVA MOX Services Records Management system. These documents have been authorized for use as design information in this document with the AREVA NP Project Manager's written authorization as indicated by the PM's signature on Page 2.





AREVA NP Inc. Report No. 100982213SAT-003



Document No.: 51-9209210-001

Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

APPENDIX A: TEST DECK/TEST SLAB DRAWINGS

It is anticipated that the slab with the silicone elastomer seal material used for Pressure Test 4 will not be damaged during Pressure Test 4 and will be available for reuse in this seismic pressure test. For the purpose of Seismic Pressure Test 3, no changes will be made to the silicone elastomer seal installed for Pressure Test 4. For test slab drawings see Pressure Test 4 drawings in Appendix A of Document 51-9199513, latest revision, "Detailed Test Plan for Conducting MOX Pressure Test 4" [Reference 12.6].

Page A-1





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

APPENDIX B: TEST PENETRATION DRAWINGS

It is anticipated that the slab with the silicone elastomer seal material and cable penetrations used for Pressure Test 4 will not be damaged during Pressure Test 4 and will be available for reuse in this seismic pressure test. For the purpose of Seismic Pressure Test 3, no changes will be made to the silicone elastomer seal or the raceway penetrations installed for Pressure Test 4. For penetration drawings see Pressure Test 4 drawings in Appendix B of Document 51-9199513, latest revision, "Detailed Test Plan for Conducting MOX Pressure Test 4" [Reference 12.6].

Page B-1





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

APPENDIX C: BILL OF MATERIALS

This appendix contains the Bill of Materials for this fire test. The Bill of Materials in Section C.1 identifies materials to be provided by AREVA. The Bill of Materials in Section C.2 identifies materials to be provided by MOX Services. The Bill of Materials in Section C.3 identifies materials to be provided by Intertek.





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

C.1 Table Bill of Materials for AREVA Supplied Items

	Bill of Material for AREVA Supplied Items				
Item	Description	Part Number	Quantity	Units	Total
	None*				

None* - Assuming a successful Pressure Test 4, the seal will already be in place, no additional materials will be necessary.





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

C.2 Bill of Materials for MOX Services Supplied Items

	Bill of Material for MOX Services Supplied Items					
Item	Description	Part Number	Quantity	Units	Total	
	None*					

None* - Assuming a successful Pressure Test 4, the raceways will already be in place, no additional materials will be necessary.





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

C.3 Bill of Materials for Intertek Supplied Items

	Bill of Material for Intertek Supplied Items*					
Item	Description	Part Number	Quantity	Units	Total	
	None*1					

^{*} This BOM applies to Intertek Supplied Items other than materials required to construct the test slab. Construction of the test slab, including procurement of any materials required for the test slab and commodity supports, is the responsibility of Intertek.



^{**} Assuming a successful Pressure Test 4, the test assembly will be in place and no additional materials will be necessary.



Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

APPENDIX D: DESIGN VERIFICATION CHECKLIST

22410-8 (02/25/2013) Page 1 of 2 DESIGN VERIFICATION CHECKLIST AREVA Document Identifier 51 - 9209210 - 001 Detailed Test Plan for Conducting MOX Seismic Pressure Test 3 ⊠ Y □ N □ N/A Were the inputs correctly selected and incorporated into design or analysis? □ N ⋈ N/A Are assumptions necessary to perform the design or analysis activity □ Y adequately described and reasonable? Where necessary, are the assumptions identified for subsequent re-verifications when the detailed design activities are completed? Note: If there are no assumptions (of any type), then N/A shall be checked. Are the appropriate quality and quality assurance requirements specified? Or, for documents prepared per AREVA NP Inc. procedures, have the ⊠ Y □ N ☐ N/A procedural requirements been met? 4. If the design or analysis cites or is required to cite requirements or criteria X Y □ N ☐ N/A based upon applicable codes, standards, specific regulatory requirements, including issue and addenda, are these properly identified, and are the requirements/criteria for design or analysis met? □ N □ N/A Have applicable construction and operating experience been considered? ✓ Y ☐ N ☐ N/A 6. Have the design interface requirements been satisfied? 7. Was an appropriate design or analytical method used? ⊠ Y □ N □ N/A ⊠ Y □ N □ N/A 8. Is the output reasonable compared to inputs? 9. Are the specified parts, equipment and processes suitable for the required ⊠ Y □ N ☐ N/A □ N ☐ N/A 10. Are the specified materials compatible with each other and the design ⊠ Y environmental conditions to which the material will be exposed? □ Y □ N ⊠ N/A 11. Have adequate maintenance features and requirements been specified? □ N Are accessibility and other design provisions adequate for performance of ΠY N/A 12. needed maintenance and repair? \square N ⋈ N/A 13. Has adequate accessibility been provided to perform the in-service inspection □ Y expected to be required during the plant life? □ Y □ N ⋈ N/A Has the design properly considered radiation exposure to the public and plant personnel? 15. Are the acceptance criteria incorporated in the design documents sufficient to X Y \square N ☐ N/A allow verification that design requirements have been satisfactorily accomplished? ΠY \square N ⊠ N/A Have adequate preoperational and subsequent periodic test requirements 16. been appropriately specified? Are adequate handling, storage, cleaning and shipping requirements \square N ☐ N/A specified? □ N □ N/A Are adequate identification requirements specified? ⊠ Y Is the document prepared and being released under the AREVA NP Inc.
Quality Assurance Program? If not, are requirements for record preparation □ N ☐ N/A X Y review, approval, retention, etc., adequately specified?

Page D-1





Detailed Test Plan for Conducting MOX Seismic Pressure Test 3

Documen	Identifier 51	- 9209210	- 001		
Comments on the N/A	preceding respon	ses:			
Verified By:	Victor E. Kald	enbach			10/10/2013
(First, MI, Last)	Printed / Type	d Name	Signatu	ire	Date

Page D-2



AREVA NP Inc. Report No. 100982213SAT-003

APPENDIX E Commercial Grade Dedication-Related Documents



The vast majority of penetration seals that will be installed throughout the MFFF will be designated as quality level QL-1. For this reason, permanent penetration seal materials used in this test program were procured by AREVA or supplied by MOX Services and suitably base-lined so that future procurements of the same commercial materials can undergo the Commercial Grade Dedication process in support Nuclear Safety Related (i.e., MOX QL-1) plant installations.

Only the primary seal material(s) that were specified as a part of the final penetration seal design and left in place during the test needed to be base-lined for future dedication of similarly procured materials. For this pressure test, the following AREVA document contains information associated with materials that underwent the base-lining process. This document establishes material critical characteristics as a baseline for future Commercial Grade Dedication.

• AREVA Document 51-9212663-000, "Quantum Silicones QSil 5558MC Silicone Elastomer Critical Characteristics"

This document is available from the AREVA Records Management System or the MOX Records Management System.

Note: The Dow Corning 732 Multi-Purpose Sealant (DC-732) that was used in Pressure Test 4A (and remained in Seismic Pressure Test 3) to seal the interface between the QSil 5558MC silicone elastomer and the penetrating items was installed to reduce the leakage observed in Pressure Test 4 so that the pressure test could continue under Pressure Test 4A (and subsequently conduct Seismic Pressure Test 3 as well). This application of DC-732 is not intended to be an approved method for MOX electrical penetration seal designs. It was only used as a means to continue the pressure testing required to substantiate Stages 2-5 of Pressure Test 4A and conduct Seismic Pressure Test 3, since seal leakage is not a condition of acceptance for these tests. For this reason, there are no QC Records associated with the DC-732 application and base-lining of the DC-732 used in Pressure Test 4A (and Seismic Pressure Test 3) is not required.



AREVA NP Inc.
Report No. 100982213SAT-003

APPENDIX F Quality Documents

The test assembly used in Seismic Pressure Test 3 was the same assembly tested in Pressure Test 4A. For Quality Records of installation, Certificates of Conformance of the sealant materials, and QA Receiving Documents of the penetration materials for this, assembly, please see the Appendices in Intertek Report No. 100982213SAT-005A, Pressure Test 4A (AREVA document 58-9222891-000).



September 4, 2014

Page 218 of 233

LIST OF CALIBRATED EQUIPMENT

Description	Serial No.	Calibration Due Date
Thermo-Hygrometer	111901142	11/2/2013
Data Acquisition System	18041FE	1/16/2014*
Pressure Transducer	406707	7/16/2014*
Mass Flowmeter	4270050001001	2/1/2014*
Mass Flowmeter	4270050003001	2/7/2014*
Stop watch	122601005	10/23/2014

^{*} See Intertek Corrective Action Request (CAR) 51-AMER-SAT-2014-INT and AREVA Contract Variation Approval Request (CVAR) 87-9224669-000







Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001



Cert. No.: 4094-3993529

Traceable® Certificate of Calibration for Digital Humidity/Temp. Meter

Manufactured for and distributed by: Fisher Scientific, 300 Industry Drive, Pittsburgh, PA 15275-1001 Instrument Identification:

Standards/Equipment:

Description Chilled Mirror Hygrometer Digital Thermometer

Serial Number 31874/H2048MCR 90969500

Due Date 5/12/12 9/14/12

NIST Traceable Reference

4000-3893285

Certificate Information:

Technician: 104 Test Conditions:

Procedure: CAL-17 22.5°C

45.0 %RH 1017 mBar

Model Numbers: 11-661-11, FB61252, 255TB S/N: 111901142 Manufacturer: Control Company

Cal Date: 11/02/11

Cal Due: 11/02/13

Calibration Data: (New Instrument)

alibration	Data. (1404	, moduline	,							
Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C		N.A,		23.667	23	Y	23	25	0.590	1.7:1
%RH		N.A.		41.450	41	Y	37	45	0.000	0.0:1

This Instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.

A Test Uncertainty Ratio of at least 4:1 is and unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under the control of the provided in accordance with its includes the Expression of Uncertainty in Measurement (GUM). The uncertainty represents an expanded uncertainty using a coverage factor ke to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contain herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading. As Left=Instrument's Reading, in Tol=in Tolerance; MinMax=AcceptanceRangs; ±U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min=Nominal/Rounded) - Tolerance; Max = Norrinal(Rounded) + Tolerance; Date=MM/DD/YY

Maintaining Accuracy:

In our opinion once calibrated your Digital Humidity/Temp, Meter should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Humidity/Temp Meters change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company

CONTROL COMPANY 4455 Rex Road Friendswood, TX 77546 USA Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com

pany is an ISO 17025:2005 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01. Control Company is ISO 9001:2008 Quality Certified by (DNV) Det Norske Veritas, Cartificate No. CERT-01805-2005-AQ-HOU-ANAB. International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).

Page 1 of 1

Traceable® is a registered trademark of Control Company



Certificate of Calibration

Certificate Number:	2994344	Date:	28-MAY-2014	
Serial Number:	18041FE	Part Number:	194710E-04L	
Description:	CCA,USB-6210			
Calibration Date:	06-DEC-2012	Shelf Life:	0 Days	
Calibration Due Date*:	-	Recommended Calibration Interval:	12 Months	
Temperature:	22.26 °C	Humidity:	40.7% RH	

Standards Used

Model	Tracking Number	Calibration Date	Calibration Due
PXI-4070	6712	26-JUN-12	26-JUN-13
PXI-6259	6871	27-JUN-12	27-JUN-13
PXI-5421	7591	25-JUN-12	25-JUN-13
HMT331	7885	24-MAY-12	24-MAY-13
	PXI-4070 PXI-6259 PXI-5421	PXI-4070 6712 PXI-6259 6871 PXI-5421 7591	PXI-4070 6712 26-JUN-12 PXI-6259 6871 27-JUN-12 PXI-5421 7591 25-JUN-12

National Instruments certifies that at the time of test, the above product was calibrated in accordance with applicable National Instruments procedures. The procedures are designed to ensure that the product listed above meets or exceeds National Instruments specifications.

We further certify that the environment in which this product was calibrated is maintained within the operating specifications of the instrument(s) standards. The measurement standards used during calibration are traceable to NIST and/or other International Measurement Institutes (NMI's) that signatories of the International Committee of Weights and Measure (CIPM) Mutual Recognition Agreement (MRA).

The information shown on this certificate applies only to the instrument identified above and this certificate may not be reproduced, except in full, without prior written consent of National Instruments.

*Optional field, Calibration Due Date, may be established by combining the Recommended Calibration Interval, Calibration Date and, when applicaccounting for Shelf Life. Shelf life defines how long an instrument may be stored, after calibration, without impact to its specifications.

The instrument's Calibration Due Date can be calculated using the following methods:

a) If date placed in service is within Calibration Date + Shelf Life: Calibration Due Date = date placed in service + Recommended Calibration Interval

b) If date placed in service is outside Calibration Date + Shelf Life: Calibration Due Date = Calibration Date + Shelf Life + Recommended Calibration Interval

For questions or comments, please contact National Instruments Technical Support.



Vice President, Quality and Continuous Improvement



Report No. 100982213SAT-003

OMEGADYNE INC. CERTIFICATE OF CALIBRATION

Model Number: PX409-005DWUV

Capacity:

5.00 PSID

Serial Number: 406707

Excitation:

10.00 Vdc

Date: 7/15/2011

Technician:

KAPOME

Job: R3274

Pressure Connection:

1/4-18 NPT Male

WIRING CODE

Electrical Connection: Integral Cable 4-Cond

BLACK = - EXCITATION WHITE = + SIGNAL GREEN = - SIGNAL RED = + EXCITATION

CALIBRATION WORKSHEET

NOTES

Pressure PSID	OUTPUT mVdc
0.00	0.007
2.50	50.008
5.00	100.016
2.50	50.007
0.00	0.007

NIST Traceable Number(s): C-1954, C-1289

Omegadyne Inc. certifies that the above instrumentation has been calibrated and tested to meet or to exceed the published specifications. This calibration was performed using instrumentation and standards that are traceable to the National Institute of Standards and Technology. This document also ensures that all testing performed complies with MIL-STD 45662-A, ISO 10012-1, and ANSI/NCSL Z540-1-1994 requirements. After Final Calibration our products are stored in an environmentally controlled stock room and are considered in bonded storage. Depending on environmental conditions and severity of use, factory calibration is recommended every one to three years after the initial service installation date.

Accepted and Certified By

7/15/2011 Date





An OMEGA Technologies Company
ONE OMEGA DRIVE, BOX 4047, STAMFORD, CT, U.S.A. 06907-0047
(203) 359-1660 TELEX: 996404 CABLE: OMEGA FAX: (203) 359-7700
http://www.omega.com e-mail: info@omega.com

CERTIFICAT	E OF ACCURACY
This is to certify that meter serial number 42 accuracy of +/- / % of 20 using standards whose accuracies are traceable and Technology (N.I.S.T.) according to our productions.	<u>SØm of ind</u> and has been calibrated e to the National Institute of Standards
All traceable certifications and related pro	cedures for the equipment used are on file.
Barometer Number:	NIA
Vol-U-Meter Number:	Base 1920 Cell 1898
Type of Gas:	N2
Gas Used for Calibration:	na na
Pressure Gauge Number:	1122
Timer Number:	nla
Thermometer Number:	nla
Voltmeter:	NA
Calibrated By.	
Date Calibrated:	a-1-B
Uncertainty of measurements: +/- 0.3 % (of reading
Calibrations were performed under a cont incorporates the requirements of ISO Guid ISO 13485. The released ISO 13485 regis	de 25, ISO 10012-1, ISO 9001 (1994) and

Management Systems - System Requirements for Regulatory Purposes) includes Design Controls and Metrology Systems.

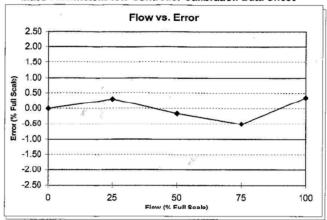
0122220B

FM-1011 REV B





Mass Flowmeter/Flow Controller Calibration Data Sheet



Calibration Data

* % Full Scale (FS) Error = (100)(Actual Flow - Device Flow) / Full Scale Flow

Flow Signal Device Flow Actual Flow % FS Error *

		(SLPM)	(Volts)	(SLPM)	(SLPM)	(%)
		00.00	0.000	00.00	00.00	0.00
DATE	2/1/2013	05.00	1.253	05.01	05.07	0.30
TIME	7:59:59 AM	10.00	2.502	10.01	09.98	-0.16
Shop Order No.	427005	15.00	3.752	15.01	14.91	-0.50
Serial No.	4270050001001	20.00	5.000	20.00	20.07	0.35

Setpoint

Nameplate (Actual) Surrogate (Calibration)

Nitrogen Nitrogen (N2)

STANDARD CONDITIONS
101.32 kPa (760 Torr)

Std. Temperature

21.1 °C

PRESSURE Inlet (P₁)

Outlet (P2)

20 PSIG N/A

TEMPERATURE

Calib. Temperature Oper. Temperature 21.9 °C 70 °F

Max. Flow Rate **Gas Factor**

20 SLPM

Calibrator Flow Standard Unit Accuracy

MT PICO 1898-1 1.0 FS & 0.0 Rate Horizontal (base down)

Calib. Attitude LEAK TEST DATA

Inboard (Externally Pressurized) Helium Leak Rate: < 1 x 10⁻⁸ atm ccisec

Vacuum Pressure: < 5 milliTorr

Tested By:_

Date: _2-1-13

FM-1119 Rev. K





An OMEGA Technologies Company
ONE OMEGA DRIVE, BOX 4047, STAMFORD, CT, U.S.A. 06907-0047
(203) 359-1660 TELEX: 996404 CABLE: OMEGA FAX: (203) 359-7700
http://www.omega.com e-mail: info@omega.com

CERTIFICATE OF ACCURACY

using standards whose accuracies are traceable and Technology (N.I.S.T.) according to our process.	s to the National Institute of Standards edures.
All traceable certifications and related proc	cedures for the equipment used are on file.
	1.1
Barometer Number:	1667
Vol-U-Meter Number:	613
Type of Gas:	Na
Gas Used for Calibration:	Na
Pressure Gauge Number:	1950
Timer Number:	1876
Thermometer Number:	985
Voltmeter:	NA
Calibrated By:	
Date Calibrated:	2-7-13

Uncertainty of measurements: +/- 0.3 % of reading

Calibrations were performed under a controlled Quality System Manual, which incorporates the requirements of ISO Guide 25, ISO 10012-1, ISO 9001 (1994) and ISO 13485. The released ISO 13485 registration (Medical Devices – Quality Management Systems – System Requirements for Regulatory Purposes) includes Design Controls and Metrology Systems.

0122220B

FM-1011 REV B





		SPECIF	ICATIONS			
MODEL#: FMA-8	R75A-V-NIST		SERIAL	•		
	00 SLPM					
NAMEPLATE (PROCESS) GAS: N2						
				ATE (CALIBRATION) GA	-	
STANDARD TEMPE	ERATURE: 21.1 C		STANDARD PRESSURE: 101.32 kPa (760 Torr)			
P1 (INLET PRESSUE	RE): 20 PSIG APERATURE: 18.	C	P2 (OUT)	LET PRESSURE): N/A		
CALIBRATION TEMPERATURE: Y, 1 CALIBRATION ATTITUDE (calibration attitude check Medical Horizontal (base down) Horizontal (upside down) Horizontal (front down) Horizontal (back down) Vertical (inlet up) Vertical (inlet down) CALIBRATION ACCURACY: 1 % OF FULL SCALE FLOW						
			TION DAT	-Δ	,	
	*	OALIDICA	HON DA	<u>~</u>		
% FULL SCALE	FLOW SIGNAL OUTPUT	STA	NDARD VC (Units:	SLPM)	ERROR *	
(Nominal)	(signal type checked) Vdc mAdc	DE\	/ICE MEASURED		(% Full Scale)	
	-	200.000		200.079	.5395	
100	5.000	200,				
75	3,750	150	000	149, 317	-,3415	
75 50	3.750	150.	000	100.488	, 2440	
75 50 25	3.750 2.500 1.250	100.	000	100.488		
75 50 25 0	3.750 2.500 1,25° 0.00	100.	000	100.488 50.852 0.000	, 2440	
75 50 25 0 * % FULL	3.750 2.500 1,25° 0.00 SCALE ERROR = (100) (1	100.	000 000 000 D FLOW - D	100.488 50.852 0.000 EVICE FLOW) + FULL SC	, 2440	
75 50 25 0 * % FULL	3.750 2.500 1,25° 0.00	50. 00. 50. 0.0	000 000 000 0 FLOW - D	100.488 50.852 0.000 EVICE FLOW) + FULL SO 2-7-13	, 2440	
75 50 25 0 * % FULL	3.750 2.500 1,25° 0.00 SCALE ERROR = (100) (1	50. 00. 50. 0.0	000 000 000 D FLOW - D	100.488 50.852 0.000 EVICE FLOW) + FULL SO 2-7-13	, 2440	
75 50 25 0 * % FULL	3.750 2.500 1,25° 0.00 SCALE ERROR = (100) (1	150. 100. 50. 0.0 MEASUREI	DOD DOD DATE:	100.488 50.852 0.000 EVICE FLOW) + FULL SO 2-7-13	, 2440	
75 50 25 0 * % FULL	3.750 2.500 1.25° 0.00 SCALE ERROR = (100) (N LIBRATED BY:	150. 100. 50. 0.0 MEASUREI	DOD DOD DATE:	100.488 50.852 0.000 EVICE FLOW) + FULL SO 2-7-13	, 2440	



Report No. 100982213SAT-003

OMEGADYNE INC. CERTIFICATE OF CALIBRATION

Model Number: PX409-005DWUV

Capacity:

5.00 PSID

Serial Number: 406707

Excitation:

10.00 Vdc

Date: 7/15/2011

Pressure Connection:

Technician:

KAPOME

Job: R3274

113214

1/4-18 NPT Male

WIRING CODE

Electrical Connection: Integral Cable 4-Cond

BLACK = - EXCITATION WHITE = + SIGNAL GREEN = - SIGNAL RED = + EXCITATION

CALIBRATION WORKSHEET

NOTES

Pressure PSID	OUTPUT mVdc
0.00	0.007
2.50	50.008
5.00	100.016
2.50	50.007
0.00	0.007

NIST Traceable Number(s): C-1954, C-1289

Omegadyne Inc. certifies that the above instrumentation has been calibrated and tested to meet or to exceed the published specifications. This calibration was performed using instrumentation and standards that are traceable to the National Institute of Standards and Technology. This document also ensures that all testing performed complies with MIL-STD 45662-A, ISO 10012-1, and ANSI/NCSL Z540-1-1994 requirements. After Final Calibration our products are stored in an environmentally controlled stock room and are considered in bonded storage. Depending on environmental conditions and severity of use, factory calibration is recommended every one to three years after the initial service installation date.

Accepted and Certified By

7/15/2011 Date





Calibration complies with ISO 9001 ISO/IEC 17025 AND ANSI/NCSL Z540-1

Calibration Certificate No. 1750.01

Cert. No.: 1042-4689088

Traceable® Certificate of Calibration for Waterproof Stopwatch

Manufactured for and distributed by: Fisher Scientific, 300 Industry Drive, Pittsburgh, PA 15275-1001 Instrument Identification:

Model Numbers: 0666256, FB70240 S/N: 122601005 Manufacturer: Control Company

Standards/Equipment:

Description

Serial Number

Due Date

NIST Traceable Reference

Non-contact Frequency Counter 26.6 2025 3/06/13

1000313632

Certificate Information:

Technician: 67 **Test Conditions:**

Procedure: CAL-01 22.5°C

45.0 %RH 1015 mBar

Cal Date: 10/23/12

Cal Due: 10/23/14

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
Sec/24hr		N.A.		0.000	-0.600	Υ	-8.640	8.640	0.130	>4:1

This Instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.

A Tost Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty availuation includes the instrument under test and is calculated in a coordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty corpresents an expanded uncertainty using a coverage factor k=2 to approximate a 55% confidence tend, Intolerence conditions are based on lest results facilities with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal-Standard's Reading; As Left-Instrument's Reading; In Tol-In Tolerance; Min/Max=Acceptance Range; ±U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Reto; Accuracy=±(Max-Min)/2; Min = Nominal(Rounded) - Tolerance; Max = Nominal(Rounded) + Tolerance; Date=NM/DD/YY



Maintaining Accuracy:

In our opinion once calibrated your Waterproof Stopwarch should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Waterproof Stopwarchs change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contect Control Company.

CONTROL COMPANY 4455 Rex Road Friendswood, TX 77546 USA Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com

Control Company is an ISO 17025:2005 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01, Control Company is ISO 9001:2008 Quality Certified by (DNV) Det Norske Veritas, Certificate No. CERT-01805-2006-AQ-HOU-ANAB. International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).

Page 1 of 1

Traceable® is a registered trademark of Control Company

© 2009 Control Company



TEST ARTICLE ATTRIBUTE CHECKLIST PROJECT NO: 6100982213 SAT-0054 CLIENT: ALEVA Project Description PRESSURE 4A AND SEISMIC 3 SAT UNSAT **ASSEMBLY** XXX Proper materials used Material documentation complete..... Configuration/dimensions in accordance w/ approved drawings. Description of assembly: Mox ALEVA P4A + S3 **FLECTRICAL CABLE** II. Correct material used Material documentation complete Correct cable lay-in and fill requirements Description of electrical cable: THERMOCOUPLES 111. Correct thermocouple type, certs received Thermocouples positioned in accordance with test plan Adequately labeled and secured Quality Assurance verification done Description of thermocouples: **FIRE BARRIER** IV. Materials installed by INTERTEK in accordance with test plan INTERTEK Quality Assurance responsibilities determined QA responsibilities of Client installation determined Moisture check required Yes ___ Special requirements FINAL PREBURN VERIFICATION V. INTERTEK Final visual inspection & approval (initials) CALIBRATION DOCUMENTATION (S/N and calibration due date) Data Acquisition Equipment: Other Measurement Devices: Temperature 81 Humidity 69 Date 10.15-13 Time of Test start 11:15 A INTERTEK pre-burn checklist performed by Client representative present to witness test Note: Varification to be made using initials by INTERTEK Quality Assurance or test personnel. 09-013-12/30/03



Intertek **TEST ACTIVITIES EVENT LOG** This Log is used to document the date and note the significant events during the completion of Test Project #G100982213SAT-003 for AREVA NP, Inc. Page 1 of 1 ITEM DATE INIT'L 7/12/13 MD Concrete poured by Alamo Concrete 7/19/13 MD Concrete conditioned MD Critical attributes of test deck and test samples verified 9/18/13 9/20/13 MD Completed seal assembly verified against the test plan 10/11/13 DC 732 caulk applied at the seal / commodities interface MD 10/15/13 MD Pressure Test 4A conducted 10/15/13 MD Seismic Pressure Test 3 Stage 1-4, 1a-4a conducted 10/16/13 MD Seismic Pressure Test 3 Stage 1b-4b conducted

9/12 NQAP-007.7.3



0-45-450-	
Certificate of Co	niomance
Client Name: AREVA NP Inc. Project No: G100982213SAT-003	Date: September 4, 2014
Intertek Testing Services NA (Intertek) has conditional seismic pressure resistance capabilities of Qualitation Elastomer (Qsil 555MC) in a 12" thick concrete requirements of and in accordance with AREV 001, Detailed Test Plan for Conducting MOX Stook place on October 15 and October 16, 2013	uantum Silicones QSil 5558MC Silicone e deck for compliance with the applicable /A NP Inc. Document No. 51-9209210- seismic Pressure Test 3. This evaluation
The materials, processes, and deliverable(s) in conform to the test laboratory's 10CFR50 Apper	
	September 4, 2014
Michael A Brown	Date
Quality Supervisor	
Intertek Testing Laboratory 16015 Shady Falls Road , Elmendorf TX 78112 210-635-8100	



Quality Assurance Statement

Intertek is devoted to engineering, inspection, quality assurance and testing of building materials, products and assemblies. Intertek has developed and implemented a Quality Assurance Program designed to provide its clients with a planned procedure of order and document processing for inspection and testing services it provides to assure conformity to requirements, codes, standards and specifications. The Program is designed to meet the intent of ANSI 45.2 Quality Assurance Program Requirements for Nuclear Power Plants, and complies with the requirements of the ASME Code, SPPE, Military Standards and other less stringent programs. It is the Laboratory's intention to adhere strictly to this Program, to assure that the services offered to its clients remains of the highest quality and accuracy possible.

All QA Surveillance documents remain on file at the Laboratory, and are available for inspection by authorized personnel in the performance of an on-site QA Audit. All materials, services and supplies used herein were obtained with appropriate QA Certifications of Compliance.



REVISION SUMMARY

DATE	SUMMARY
September 4, 2014	Original Issue Date

