

# TEST REPORT



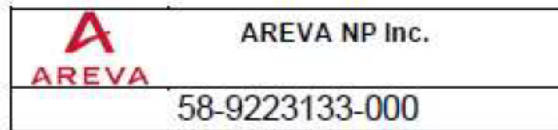
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PRODUCTS EVALUATED: Arlon Silicone Impregnated Fiberglass Fabric, IDEAL Clamp 9/16" All Stainless Steel 64 Series, Unifrax Fiberfrax<sup>®</sup> Durablanket<sup>®</sup> S, Quantum Silicones QSil 5558MC Silicone Elastomer, Dow Corning<sup>®</sup> Sylgard 170 Silicone Elastomer, Promatec SF-150NH High-Density Silicone Elastomer, Dow Corning<sup>®</sup> 732 Multi-Purpose Sealant and Dow Corning<sup>®</sup> 790 Silicone Building Sealant

EVALUATION PROPERTY: Pressure Resistance (Pressure Test 6)

**Report of Testing pressure resistance capabilities for compliance with the applicable requirements of AREVA NP Inc. Test Plan, Document No. 51-9204218-003**

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## 2 Introduction

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Intertek Testing Services NA (Intertek) has conducted testing for AREVA NP Inc., on the pressure resistance capabilities of Arlon Silicone Impregnated Fiberglass Fabric (Boot Material), IDEAL Clamp 9/16" All Stainless Steel 64 Series, Unifrax Fiberfrax® Durablanket® S (Durablanket), Quantum Silicones QSil 5558MC Silicone Elastomer (QSil 5558MC), Dow Corning® Sylgard 170 Silicone Elastomer (DC-170), Promatec SF-150NH High-Density Silicone Elastomer (SF-150NH), Dow Corning® 732 Multi-Purpose Sealant and Dow Corning® 790 Silicone Building Sealant in penetrations through a 12" thick concrete deck for compliance with the applicable requirements of and in accordance with AREVA NP Inc. Document No. 51-9204218-003, *Detailed Test Plan for Conducting MOX Pressure Test 6*. This evaluation took place on October 18 and October 21, 2013.

This project was undertaken to evaluate the pressure resistance capability of silicone rubber boot assemblies when installed to seal the opening created by a pipe passing through a sleeve (with various sleeve configurations) at the air pressure increments above atmospheric pressure.

## 3 Test Samples

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### 3.1. SAMPLE SELECTION

The sealant materials were not independently selected for testing; they were supplied by AREVA NP, Inc., and were received in several shipments from June 3 to September 10, 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
Arlon 56493F031 Boot Material	080212Z7F	NA
Ideal Hose Clamps	64720, 64104, 64880 (Series Numbers)	NA
Durablanket® S	32039	NA
QSil 5558 MC	130606	6/14/2014
DC-790 Sealant	0007390959	4/24/2014
DC-170 Elastomer	063B03	6/30/2014
SF-150NH Elastomer	NH093B04	3/31/2014
DC-732 Sealant	0007251823	5/29/2014

Information regarding receiving dates and origin can be found in Appendix F: Quality Documents. All samples were received in good condition at the Evaluation Center.

### 3.2. SAMPLE AND ASSEMBLY DESCRIPTION

The test deck was used to simulate a confinement zone or HVAC boundary in which the penetration seal assemblies may be installed. The test deck was not considered an integral part of the penetration seal assembly being tested and therefore was 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 was constructed of normal weight reinforced concrete.



Openings cast into the test deck simulated certain features consistent with MOX penetrations (e.g., painted or coated interior finishes, beveled edges, etc.) as defined by detailed Test Plan drawings contained in Appendix A.

A detailed description of each penetration can be found in Appendix D, AREVA NP Inc. Engineering Information Record, Document No. 51-9204218-003. Included in that document is a table of revision history with a description of changes made to the approved plan. 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.

The test assembly consisted of a 12" thick concrete slab measuring approximately 96" x 96" (8' x 8'). Within this slab there were four penetrations, two (2) 12" diameter openings, and two 16" x 16" blockouts. Details for the four penetrations are provided in Section 2.2 of the Test Plan. Three of the penetrations were unlined (bare concrete) and one was steel lined (cast in place 12" diameter pipe).

- Penetration P1: This penetration was a round 12" diameter precast opening with a 16 gauge galvanized sheet metal sleeve sized to fit the precast opening. The sheet metal sleeve was an approximately 18" long and installed such that the sleeve extended approximately 3" on both sides of the test slab. The sheet metal sleeve was fastened to the concrete opening in accordance with AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Test Plan Reference 12.5]. An 8" diameter schedule 40 carbon steel pipe passed through the sleeve. The pipe was capped on one side with a welded pipe cap. The welded cap was made air tight, so that any leakage during the test had to pass through the seal assembly and not internal to the pipe. The gap between the sleeve and the pipe was sealed using a silicone rubber boot assembly as described in AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Test Plan Reference 12.5]. The annular space between the pipe and the sleeve was filled full slab depth (12") using Unifrax Fiberfrax<sup>®</sup> Durablanket<sup>®</sup> S.
- Penetration P2: This penetration was a 16"x16" square precast opening. A 16 gauge 12" diameter galvanized sheet metal sleeve (approximately 14" long) was sealed in place using an eight (8) inch thick seal of half Dow Corning Sylgard<sup>®</sup> 170 Silicone Elastomer (DC-170) and half Quantum Silicones QSil 5558MC Silicone Elastomer (QSil 5558MC) with no permanent damming installed in the penetration. The sleeve was situated such that the sleeve extended approximately 3" beyond the test slab on the top side of the barrier. The sheet metal sleeve was fabricated and installed in accordance with AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Test Plan Reference 12.5]. The division of penetration seal materials was located within the opening as shown in Appendix A. An 8" diameter schedule 40 carbon steel pipe passed through the sleeve. The pipe was capped on one side with a welded pipe cap. The welded pipe cap was made air tight, so that any leakage during the test had to pass through the seal assembly and not internal to the pipe. The gap between the sleeve and the pipe was sealed using a silicone rubber boot assembly as described in AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Test Plan Reference 12.5]. The annular space between the pipe and the sleeve was filled full slab depth (12") using Unifrax Fiberfrax<sup>®</sup> Durablanket<sup>®</sup> S.
- Penetration P3: This penetration was a 16"x16" square precast opening with a 16 gauge 8" diameter galvanized sheet metal sleeve (approximately 14" long) sealed in place with an eight (8) inch thick Promatec SF- 150NH High-Density Silicone Elastomer (SF-

150NH) seal with no permanent damming installed in the penetration. The sleeve was situated such that the sleeve extends approximately 3" beyond the test slab on the top side of the barrier. The sheet metal sleeve was fabricated and installed in accordance with AREVA NP Inc. Document 01-9198306 , *Installation Instruction Manual for MOX Penetration Seal Test Program* [Test Reference 12.5]. A 4" diameter schedule 40 carbon steel pipe passed through the sleeve. The pipe was capped on one side or with a welded pipe cap. The welded pipe cap was made air tight, so that any leakage during the test had to pass through the seal assembly and not internal to the pipe. The gap between the sleeve and the pipe will be sealed using a silicone rubber boot assembly as described in AREVA NP Inc. Document 01-9198306 , *Installation Instruction Manual for MOX Penetration Seal Test Program* [Test Reference 12.5]. The annular space between the pipe and the sleeve was filled full slab depth (12") using Unifrax Fiberfrax® Durablanket® S.

- Penetration P4: This penetration was a round opening with a 12" diameter cast-in-place schedule 40 steel pipe sleeve (approximately 12" long). The pipe sleeve was cast in the slab such that the sleeve was flush with the slab on both sides of the barrier. A galvanized sheet metal sleeve extension (approximately 9" long) was added to the top side of the opening to facilitate installation of a boot assembly. The sleeve extension extended approximately 3" above the slab and was installed in accordance with AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Test Plan Reference 12.5]. An 8" diameter schedule 40 carbon steel pipe passed through the sleeve. The 8" diameter pipe was capped on one side with a welded pipe cap. The welded pipe cap was made air tight, so that any leakage during the test had to pass through the seal assembly and not internal to the pipe. The gap between the cast-in place sleeve and the pipe was sealed using a silicone rubber boot assembly as described in AREVA NP Inc. Document 01-9198306 , *Installation Instruction Manual for MOX Penetration Seal Test Program* [Test Plan Reference 12.5]. The annular space between the pipe and the sleeve was filled full slab depth (12") using Unifrax Fiberfrax® Durablanket® S.

The penetrating items were located within the openings as shown in Appendix A. One silicone rubber boot was installed to seal the openings between the pipe and the sleeve for each penetration. All four boots were installed on the same side of the test deck and tested in accordance with Section 9.0.

The test deck was horizontally oriented with a hemispherical 72" diameter steel pressure vessel mounted on each side of the precast openings in the slab.

## **4 Testing and Evaluation Methods**

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The Test Plan in Appendix D defines the test methods, acceptance criteria and test report documentation requirements for penetration seal Pressure Test 6. Additionally, the 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 pressure testing efforts.

The detailed Test Plan also describes the procurement plan for materials associated with penetration seal Pressure Test 6 and identifies the entities responsible for procuring the various components of the test assemblies 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 assemblies and links quality requirements in the AREVA 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, the MOX Penetration Seal Program has developed a standardized method for conducting pressure testing of MOX penetration seal designs. 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 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



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



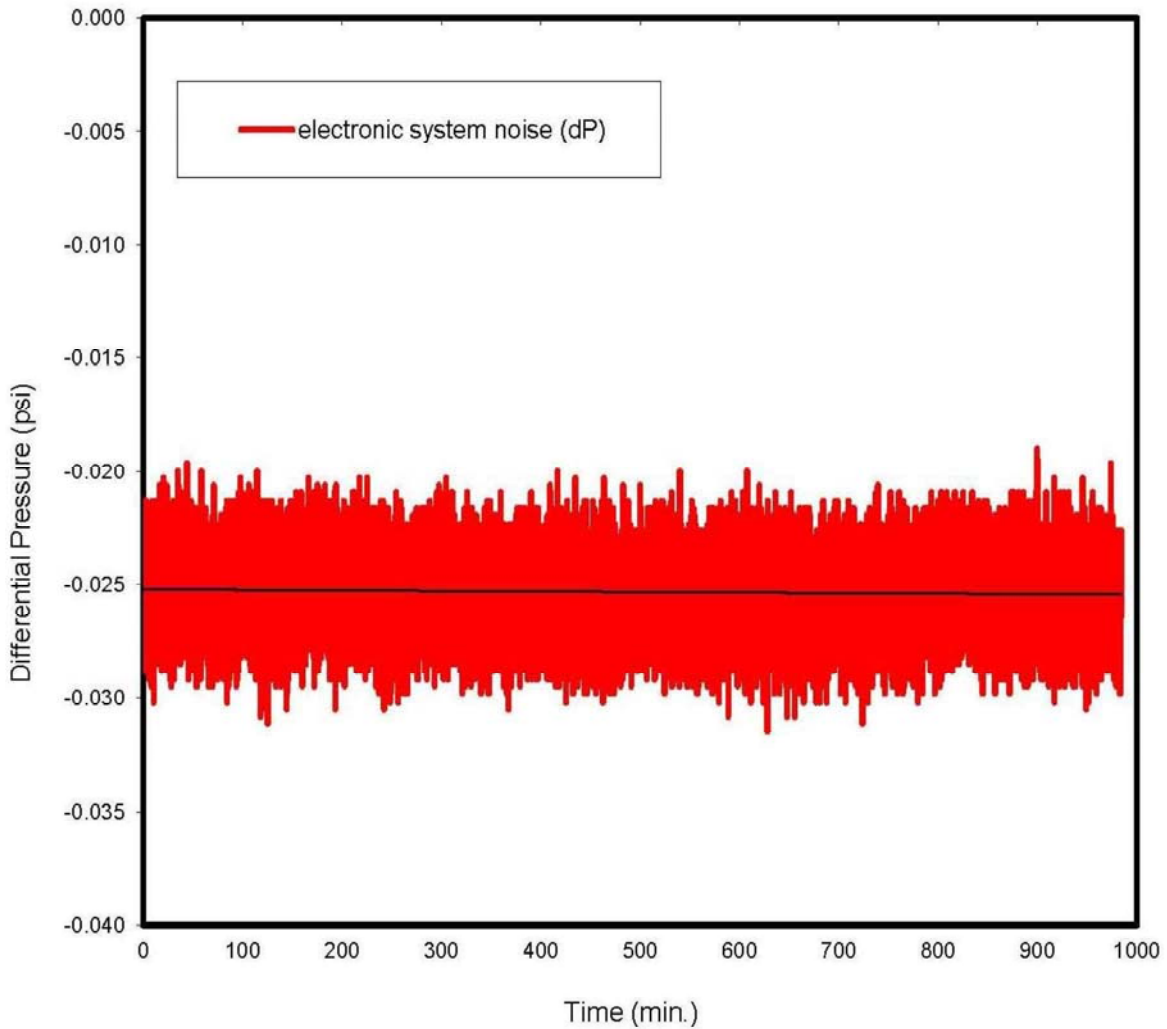
Dedicated CPU

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)



Since the initial pressure stage prescribed by the AREVA NP Test Plan is 1.0 inches of water (0.0361 psi) and the average data fluctuation due to “signal noise” was almost 70% of this value (-0.025 psi), it was decided that an inclined-plane manometer would be used to ensure that the Stage 1 differential pressure was applied at precisely 1.0 inches of water.



For subsequent pressure stages (i.e., Stages 2-5), 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. 51-9204218-003**

Pressure rated penetration seals at the MOX facility are required to remain “sufficiently leak-tight” at various pressure levels in order to support the functional goals of the various pressure rating requirements (i.e., confinement, suppression system clean agent concentration, fire induced pressure loads or HVAC pressure boundary loads). The term “sufficiently leak-tight” indicates that the penetration seal meets the predetermined acceptance criteria for the pressure level(s) being tested.

The acceptance criterion that constitutes “sufficiently leak-tight” varies based on the pressure requirement and the operating mode of the plant. For most pressure conditions and operating modes, “sufficiently leak-tight” means that the penetration seal assembly must remain in place but is allowed to leak (i.e., the penetration seal cannot become dislodged from the opening or otherwise catastrophically fail such that a substantial leakage path is created.)

Per MOX Services Calculation *Confinement Boundary Air Leakage Criteria* [Test Plan Reference 12.1], penetration seals that function as confinement zone 3b boundary components must maintain a leakage rate less than 0.01 cfm/sq. ft. of penetration area when tested at a pressure that bounds C3b to non-C3b zone pressures during normal operating conditions.

The table below identifies the differential pressure levels (stages) for conducting pressures tests, as well as, the acceptance criteria in order to be considered “sufficiently leak-tight”.

**Differential Pressure Test Levels**

Test Stage	Differential Pressure (inch w.g.)	Required Hold Time (minutes)	Acceptance Criteria	Basis for the Selected Differential Pressure
1a	1.0	30	Leakage ≤ 0.01 cfm/sq. ft. of penetration area	Testing at this differential pressure bounds the 0.51 inches w.g. pressure for C3b to C2 areas during normal operation [Test Plan Reference 12.9].
2a	5.0	30	Seal Remains In Place	Testing at this differential pressure bounds the 4.0 inches w.g. pressure anticipated as a result of clean agent suppression system discharge [Test Plan Reference 12.7].



Test Stage	Differential Pressure (inch w.g.)	Required Hold Time (minutes)	Acceptance Criteria	Basis for the Selected Differential Pressure
3a	10.0	30	Seal Remains In Place	Testing at this differential pressure bounds the 7.0 inches w.g. pressure used as the screening pressure cutoff for fire induced pressures [Test Plan References 12.7 and 12.8] and some of the HVAC pressure boundaries [Test Plan Reference 12.9].
4a	20.0	30	Seal Remains In Place	Testing at this differential pressure bounds all of the calculated fire induced pressures [Test Plan Reference 12.8] and many of the HVAC pressure boundaries [Test Plan Reference 12.9].
5a	40.0	30	Seal Remains In Place	Testing at this differential pressure bounds all of the HVAC pressure boundaries [Test Plan Reference 12.9].
1b	1.0	30	Leakage $\leq 0.01$ cfm/sq. ft. of penetration area	Testing at this differential pressure bounds the 0.51 inches w.g. pressure for C3b to C2 areas during normal operation [Test Plan Reference 12.9].
2b	5.0	30	Seal Remains In Place	Testing at this differential pressure bounds the 4.0 inches w.g. pressure anticipated as a result of clean agent suppression system discharge [Test Plan Reference 12.7].
3b	10.0	30	Seal Remains In Place	Testing at this differential pressure bounds the 7.0 inches w.g. pressure used as the screening pressure cutoff for fire induced pressures [Test Plan References 12.7 and 12.8] and some of the HVAC pressure boundaries [Test Plan Reference 12.9].
4b	20.0	30	Seal Remains In Place	Testing at this differential pressure bounds all of the calculated fire induced pressures [Test Plan Reference 12.8] and many of the HVAC pressure boundaries [Test Plan Reference 12.9].
5b	40.0	30	Seal Remains In Place	Testing at this differential pressure bounds all of the HVAC pressure boundaries [Test Plan Reference 12.9].

Each test assembly shall be attached to the pressure test apparatus and subjected to the pressures identified in the table as described below. For tests 1a – 5a the side of the test deck on which the boots have been installed shall be pressurized. Following Test Stages 1a – 5a, the opposite side of the test deck shall be prepared for pressurization. For Test Stages 1b – 5b the side of the test deck with no boots installed shall be pressurized.

The test assembly shall be attached to the pressure test apparatus and subjected to air pressure tests at the select pressure levels identified in the table above, beginning with the Stage 1a pressure of 1.0 inch w.c. Once this pressure has been obtained, the pressure shall be maintained for the hold time specified. The maximum leakage rate observed during the hold time shall be recorded. If the leakage rate exceeds the acceptance criteria during Stage 1a testing, the time of failure shall be noted and the



test shall be continued, since leakage alone does not constitute failure after Stage 1a.

Once the designated hold time has been achieved, the pressure shall be increased to the next pressure level identified (Stage 2a, then Stage 3a, then Stage 4a and finally Stage 5a before repeating with the pressure applied to the opposite side of the test assembly – Stages 1b thru 5b) and held for the designated hold time. The maximum leakage rate observed during each hold time shall be recorded.

Following completion of Stage 5a (and 5b) pressure testing, the test may continue at the discretion of the AREVA test engineer and the testing laboratory manager in charge. Subsequent pressures, hold times and maximum leakage rates shall be recorded as directed by the AREVA test engineer.

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

## 5 Testing and Evaluation Results

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### 5.1. RESULTS AND OBSERVATIONS

The test deck was mounted horizontally between two 72” diameter hemispherical pressure vessels. The deck was fixed to the pressure chamber using (16) 5/16” x 2-1/2” long sleeve anchors (Red Head) through 16 pre-drilled holes. Silicone II caulk (GE) was used to create a pressure tight seal between the pressure chamber and the test deck.

The first test, with the top (boot-side) pressurized, was initiated at 9:38 a.m. on October 18, 2013. The ambient temperature at the start of the test was 70°F, with a relative humidity of 67%. The second test, with the bottom side pressurized, was initiated at 10:18 a.m. on October 21, 2013. The ambient temperature at the start of the test was 72°F, with a relative humidity of 73%. Scott Groesbeck, representing AREVA NP Inc., was present to witness both tests.

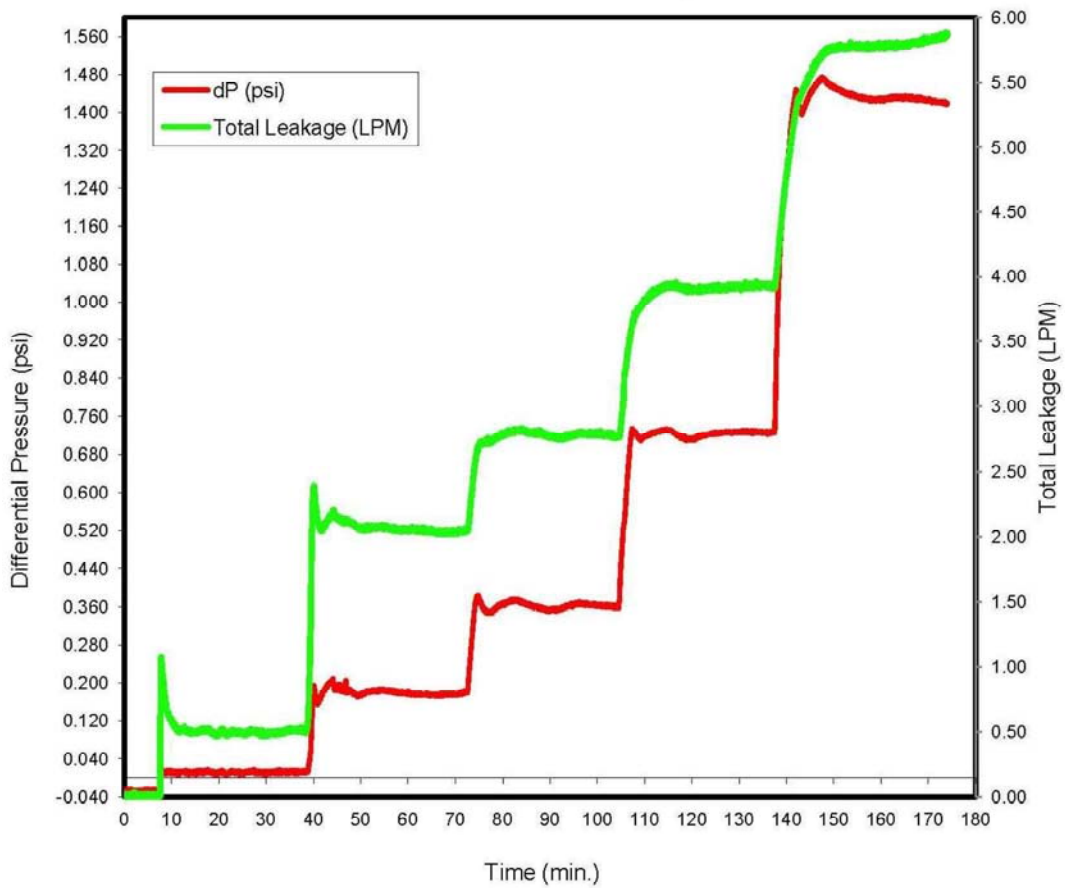
The test procedure followed that presented in Section 9.0 of the Test Plan. The graphs and tables on the following page(s) provides a summary of results and observations for the ten pressure stages (Stages 1a-5a and 1b-5b), any observed leakage, and the maximum leakage rate. Additionally, the raw data for Pressure Test 6 is contained in Appendices B1 and B2 of this test report. The official start and stop times for each pressure stage were timed using a traceable, calibrated stopwatch. The approximate start and stop times for each pressure stage are recorded below. These start and stop times can be correlated to the data in Appendices B1 and B2 using the heading “Time (min)”.

**Pressure Test 6 Start and Stop Times**

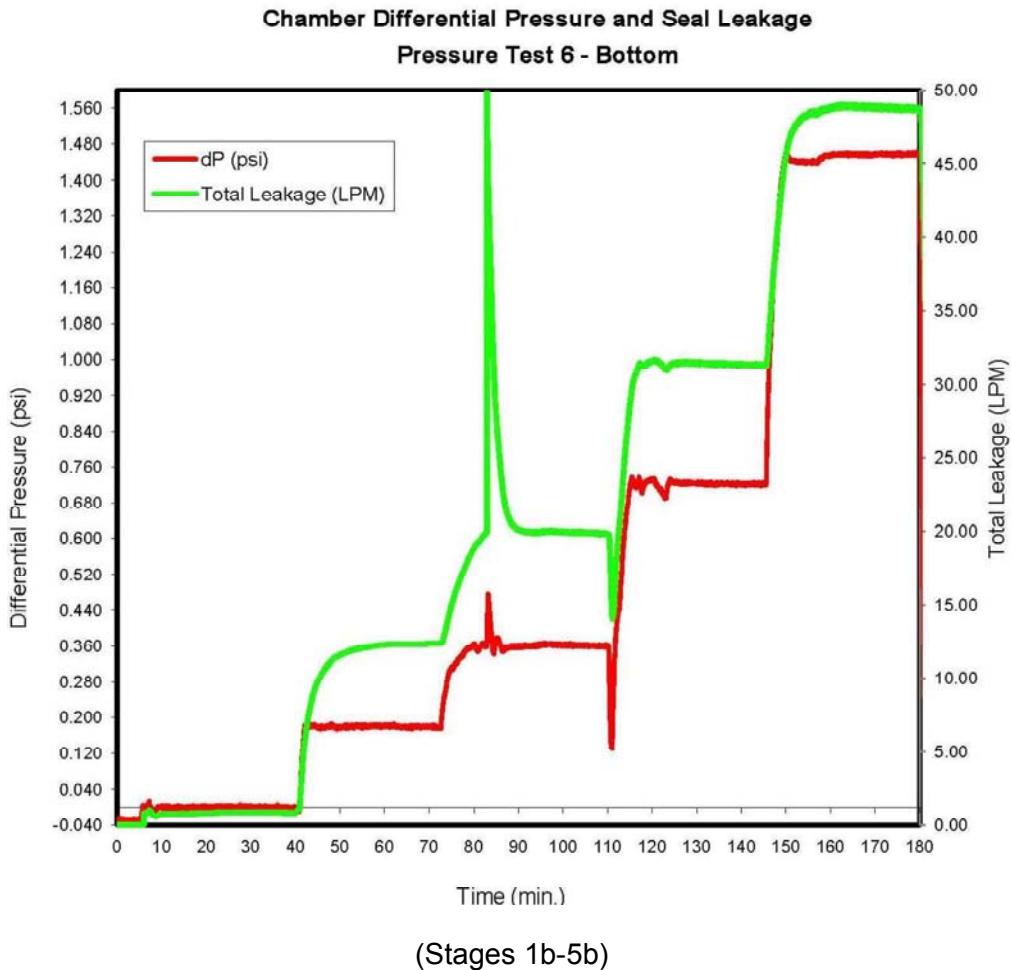
Stage	Start Time	Stop Time
1a	8.9	38.9
2a	42	72
3a	74.2	104.2
4a	107.2	137.2

Stage	Start Time	Stop Time
5a*	142	172
1b	9.5	39.5
2b	42.2	72.2
3b	79.6	110
4b	115	145
5b	150	180

**Chamber Differential Pressure and Seal Leakage  
 Pressure Test 6 - Top**



(Stages 1a-5a)



The spike in the Total Leakage was due to closing the valve on the 0-20 LPM flowmeter and opening the valve on the 0-200 LPM flowmeter. The actual leakage remained below 20 LPM at the end of the third pressure stage.

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.

**Test Results and Observations – Top (Boot) Pressurized**

Test Stage	Differential Pressure inch w.g. (psi)	Required Hold Time (minutes)	Acceptance Criteria	PASS/ FAIL	Max Leakage (Total LPM)	Max Leakage (Total cfm)
1a	1.0 (0.036)	30	Leakage $\leq$ 0.01 cfm/sq. ft. of penetration area	PASS*	1.07	0.038
2a	5.0 (0.181)	30	Seal Remains In Place	PASS	2.21	0.078
3a	10.0 (0.361)	30	Seal Remains In Place	PASS	2.83	0.100
4a	20.0 (0.722)	30	Seal Remains In Place	PASS	3.96	0.140
5a	40.0 (1.44)	30	Seal Remains In Place	PASS	5.88	0.208

\* For Stage 1a the allowable leakage per the Test Plan is 0.01 cfm per square foot of penetration opening. The test assembly was comprised of two 12" diameter openings and two 16" x 16" openings. This yielded a total penetration area of 5.13 ft<sup>2</sup>, which correlates to an allowable leakage rate of 0.051 cfm (or 1.444 LPM). Since the maximum Stage 1a leakage was 0.038 cfm (1.07 LPM), the test assembly passed the Stage 1a leak rate criteria.

**Test Results and Observations – Bottom (non-Boot) Pressurized**

Test Stage	Differential Pressure inch w.g. (psi)	Required Hold Time (minutes)	Acceptance Criteria	PASS/ FAIL	Max Leakage (Total LPM)	Max Leakage (Total cfm)
1b	1.0 (0.036)	30	Leakage $\leq$ 0.01 cfm/sq. ft. of penetration area	PASS* <sup>1</sup>	0.934	0.033
2b	5.0 (0.181)	30	Seal Remains In Place	PASS	12.37	0.437
3b	10.0 (0.361)	30	Seal Remains In Place	PASS	20.06	0.709
4b	20.0 (0.722)	30	Seal Remains In Place	PASS	31.72	1.121
5b	40.0 (1.44)	30	Seal Remains In Place	PASS	49.01	1.732

\*<sup>1</sup> For Stage 1b the allowable leakage per the Test Plan is 0.01 cfm per square foot of penetration opening. The test assembly was comprised of two 12" diameter openings and two 16" x 16" openings. This yielded a total penetration area of 5.13 ft<sup>2</sup>, which correlates to an allowable leakage rate of 0.051 cfm (or 1.444 LPM). Since the maximum Stage 1b leakage was 0.033 cfm (0.934 LPM), the test assembly passed the Stage 1a leak rate criteria.



## 5.2. POST TEST EXAMINATION

No post test examination was conducted on Pressure Test 6, since the test specimen was scheduled to undergo seismic pressure testing the next day.

Refer to the test report for MOX Seismic Pressure Test 4 for additional information (Intertek Test Report 101276459SAT-005 or AREVA NP, Inc. document number 58-9224039-000).

## 6 Conclusion

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Intertek Testing Services NA (Intertek) has conducted testing for AREVA NP Inc., on the pressure resistance capabilities of Arlon Silicone Impregnated Fiberglass Fabric (Boot Fabric), IDEAL Clamp 9/16" All Stainless Steel 64 Series, Unifrax Fiberfrax® Durablanket® S (Durablanket), Quantum Silicones QSil 5558MC Silicone Elastomer (QSil 5558MC), Dow Corning® Sylgard 170 Silicone Elastomer (DC-170), Promatec SF-150NH High-Density Silicone Elastomer (SF-150NH), Dow Corning® 732 Multi-Purpose Sealant and Dow Corning® 790 Silicone Building Sealant in penetrations through a 12" thick concrete deck for compliance with the applicable requirements of and in accordance with AREVA NP Inc. Document No. 51-9204218-003, *Detailed Test Plan for Conducting MOX Pressure Test 6*. This evaluation took place on October 18 and October 21, 2013.

The seals in Pressure Test 6 met the acceptance criteria as defined in the Test Plan.

This project was undertaken to evaluate the pressure resistance capability of silicone rubber boot assemblies when installed to seal the opening created by a pipe passing through a sleeve (with various sleeve configurations) at various 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**

Reported by: [Redacted]  
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Reviewed by: [Redacted]  
Michael A. Brown  
**Quality Supervisor**

APPENDIX A  
Assembly Drawings



Document No.: 51-9204218-003

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Detailed Test Plan for Conducting MOX Pressure Test 6

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**APPENDIX A: TEST DECK/TEST SLAB DRAWINGS**

The test deck (test slab) for Pressure Test 6 is depicted on page A-2.



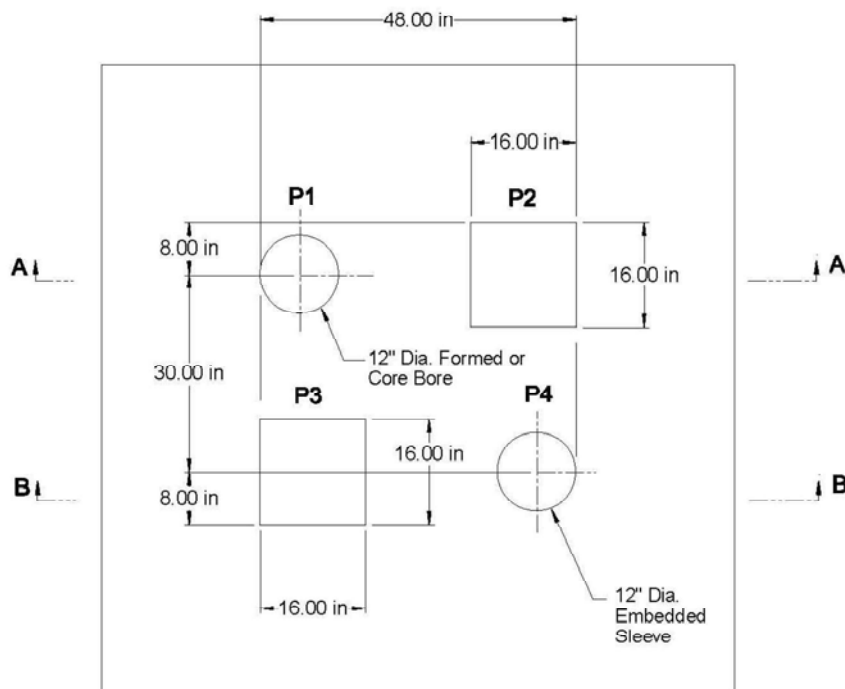


Document No.: 51-9204218-003

Detailed Test Plan for Conducting MOX Pressure Test 6

**Pressure Test P6 Test Deck**

**Pressure Test P6**



Section Views are on  
Page A-3.

NOTES:

1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- 1/4"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC.
3. 12" EMBEDDED SLEEVE TO BE CAST IN PLACE WITH STEEL LUGS.





Document No.: 51-9204218-003

Detailed Test Plan for Conducting MOX Pressure Test 6



**Section A-A**



**Section B-B**

NOTES:

1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- 1/4"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC.



Document No.: 51-9204218-003

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Detailed Test Plan for Conducting MOX Pressure Test 6

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**APPENDIX B: TEST PENETRATION DRAWINGS**

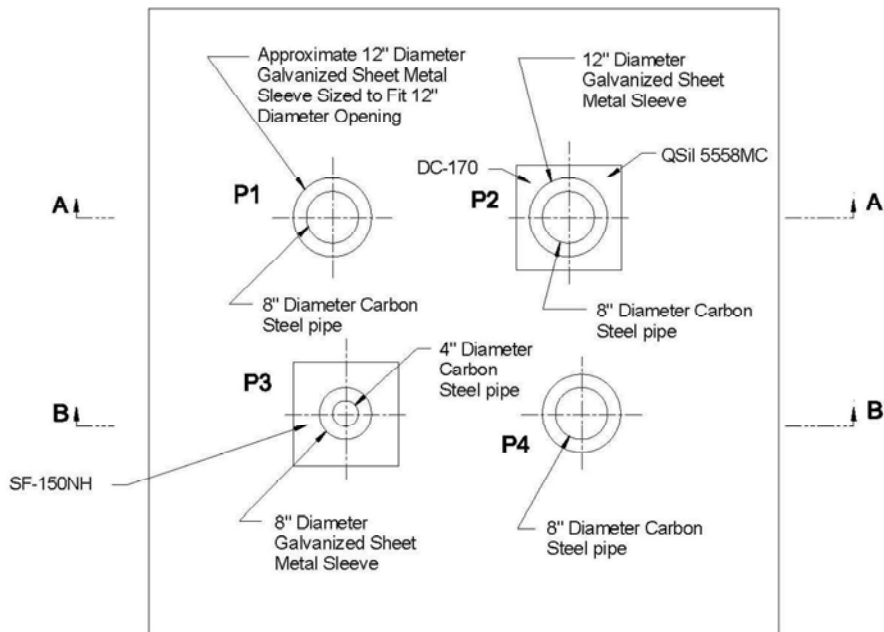
This appendix contains Test Penetration drawings. These drawings identify penetrating item locations within the test penetration, as well as, the penetration seal design for each test penetration.



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Detailed Test Plan for Conducting MOX Pressure Test 6

**Pressure Test P6**



Section Views are on  
Pages B-3, and B-4.

NOTES:

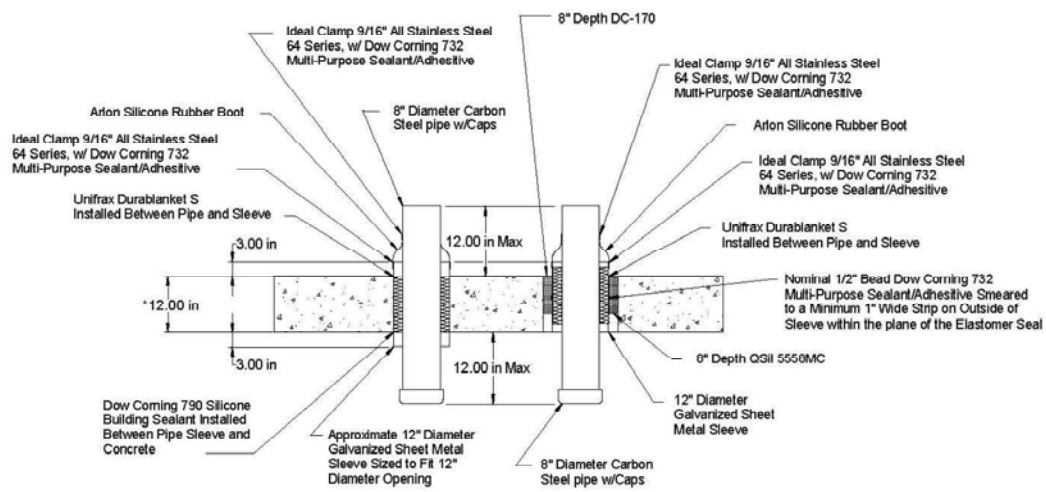
1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- 1/4"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC.
3. 12" EMBEDDED SLEEVE TO BE CAST IN PLACE WITH STEEL LUGS.





Document No.: 51-9204218-003

Detailed Test Plan for Conducting MOX Pressure Test 6



**Section A-A**

**NOTES:**

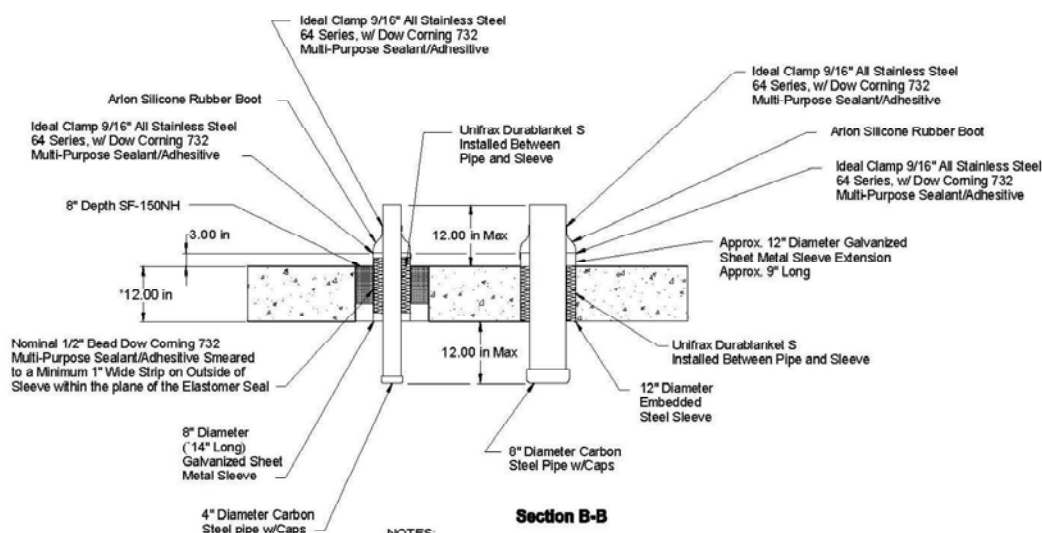
1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- 1/4"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC
3. BOOTS TO BE CLAMPED AND CAULKED PER INSTALLATION INSTRUCTIONS





Document No.: 51-9204218-003

Detailed Test Plan for Conducting MOX Pressure Test 6



**Section B-B**

NOTES:

1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- 1/4"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC
3. BOOTS TO BE CLAMPED AND CAULKED PER INSTALLATION INSTRUCTIONS



APPENDIX B1 – Top Side  
Test Data

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
0	-0.0288	0	0.0011	0.0011
0.0333	-0.0269	0	0.0011	0.0011
0.0667	-0.0292	0	0	0
0.1	-0.0285	0.0091	0	0.0091
0.1333	-0.0298	0	0.0011	0.0011
0.1667	-0.0272	0.0091	0.0011	0.0102
0.2	-0.0259	0.0091	0	0.0091
0.2333	-0.0272	0.0091	0.0011	0.0102
0.2667	-0.0285	0.0223	0.0011	0.0234
0.3	-0.0292	0.0091	0.0011	0.0102
0.3333	-0.0265	0.0091	0.0011	0.0102
0.3667	-0.0275	0.0091	0	0.0091
0.4	-0.0259	0	0	0
0.4333	-0.0255	0.0091	0	0.0091
0.4667	-0.0272	0	0	0
0.5	-0.0255	0.0091	0	0.0091
0.5333	-0.0249	0.0223	0	0.0223
0.5667	-0.0282	0	0.0011	0.0011
0.6	-0.0265	0	0.0011	0.0011
0.6333	-0.0285	0	0	0
0.6667	-0.0275	0	0.0011	0.0011
0.7	-0.0269	0	0	0
0.7333	-0.0265	0	0.0011	0.0011
0.7667	-0.0236	0	0.0011	0.0011
0.8	-0.0288	0	0	0
0.8333	-0.0272	0	0	0
0.8667	-0.0246	0.0091	0	0.0091
0.9	-0.0262	0.0223	0	0.0223
0.9333	-0.0282	0.0091	0.0011	0.0102
0.9667	-0.0269	0.0223	0	0.0223
1	-0.0265	0	0	0
1.0333	-0.0265	0.0091	0	0.0091
1.0667	-0.0292	0.0091	0.0011	0.0102
1.1	-0.0288	0	0	0
1.1333	-0.0288	0.0091	0	0.0091
1.1667	-0.0262	0	0	0
1.2	-0.0282	0.0091	0	0.0091
1.2333	-0.0255	0	0	0
1.2667	-0.0255	0	0	0
1.3	-0.0262	0	0	0
1.3333	-0.0292	0	0.0011	0.0011
1.3667	-0.0292	0.0223	0	0.0223
1.4	-0.0262	0.0091	0.0011	0.0102



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
1.4333	-0.0259	0	0.0024	0.0024
1.4667	-0.0265	0	0.0011	0.0011
1.5	-0.0242	0	0	0
1.5333	-0.0255	0.0091	0	0.0091
1.5667	-0.0285	0.0223	0.0011	0.0234
1.6	-0.0285	0.0091	0	0.0091
1.6333	-0.0279	0.0091	0	0.0091
1.6667	-0.0269	0.0091	0.0011	0.0102
1.7	-0.0265	0	0.0011	0.0011
1.7333	-0.0279	0.0091	0.0011	0.0102
1.7667	-0.0262	0	0	0
1.8	-0.0292	0	0.0011	0.0011
1.8333	-0.0262	0.0091	0	0.0091
1.8667	-0.0295	0	0	0
1.9	-0.0265	0	0.0024	0.0024
1.9333	-0.0265	0	0	0
1.9667	-0.0292	0	0	0
2	-0.0279	0	0	0
2.0333	-0.0285	0	0.0011	0.0011
2.0667	-0.0265	0.0354	0	0.0354
2.1	-0.0292	0	0	0
2.1333	-0.0269	0.0091	0	0.0091
2.1667	-0.0298	0	0	0
2.2	-0.0252	0	0.0011	0.0011
2.2333	-0.0295	0	0.0011	0.0011
2.2667	-0.0292	0	0	0
2.3	-0.0302	0.0091	0	0.0091
2.3333	-0.0275	0	0	0
2.3667	-0.0279	0.0091	0.0011	0.0102
2.4	-0.0262	0	0	0
2.4333	-0.0279	0	0	0
2.4667	-0.0255	0	0.0011	0.0011
2.5	-0.0265	0.0091	0.0011	0.0102
2.5333	-0.0279	0.0091	0.0011	0.0102
2.5667	-0.0285	0	0.0024	0.0024
2.6	-0.0272	0.0223	0.0011	0.0234
2.6333	-0.0288	0.0091	0	0.0091
2.6667	-0.0255	0	0.0011	0.0011
2.7	-0.0298	0.0091	0.0011	0.0102
2.7333	-0.0252	0	0.0011	0.0011
2.7667	-0.0275	0	0	0
2.8	-0.0269	0.0223	0	0.0223
2.8333	-0.0265	0	0	0

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
2.8667	-0.0269	0	0	0
2.9	-0.0255	0.0091	0.0011	0.0102
2.9333	-0.0288	0.0091	0.0011	0.0102
2.9667	-0.0298	0.0091	0	0.0091
3	-0.0295	0.0091	0	0.0091
3.0333	-0.0275	0.0091	0	0.0091
3.0667	-0.0272	0.0091	0	0.0091
3.1	-0.0288	0.0091	0.0011	0.0102
3.1333	-0.0282	0.0223	0.0024	0.0247
3.1667	-0.0282	0.0223	0	0.0223
3.2	-0.0275	0	0.0024	0.0024
3.2333	-0.0305	0.0091	0.0011	0.0102
3.2667	-0.0295	0	0.0011	0.0011
3.3	-0.0252	0.0091	0.0011	0.0102
3.3333	-0.0259	0	0.0011	0.0011
3.3667	-0.0282	0.0091	0	0.0091
3.4	-0.0279	0	0	0
3.4333	-0.0275	0	0	0
3.4667	-0.0288	0	0.0011	0.0011
3.5	-0.0262	0	0	0
3.5333	-0.0279	0.0091	0	0.0091
3.5667	-0.0288	0.0091	0	0.0091
3.6	-0.0269	0	0	0
3.6333	-0.0259	0.0091	0.0011	0.0102
3.6667	-0.0272	0.0091	0	0.0091
3.7	-0.0255	0	0.0011	0.0011
3.7333	-0.0279	0	0	0
3.7667	-0.0269	0	0.0011	0.0011
3.8	-0.0255	0.0091	0	0.0091
3.8333	-0.0255	0.0091	0	0.0091
3.8667	-0.0272	0	0.0011	0.0011
3.9	-0.0265	0.0091	0.0011	0.0102
3.9333	-0.0269	0	0.0011	0.0011
3.9667	-0.0282	0	0	0
4	-0.0269	0	0	0
4.0333	-0.0269	0.0091	0	0.0091
4.0667	-0.0272	0.0091	0.0011	0.0102
4.1	-0.0279	0.0091	0	0.0091
4.1333	-0.0275	0	0	0
4.1667	-0.0298	0.0223	0	0.0223
4.2	-0.0265	0.0091	0.0024	0.0115
4.2333	-0.0279	0.0091	0.0011	0.0102
4.2667	-0.0252	0.0091	0.0011	0.0102

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
4.3	-0.0282	0	0.0011	0.0011
4.3333	-0.0239	0.0091	0	0.0091
4.3667	-0.0282	0	0	0
4.4	-0.0285	0.0091	0.0011	0.0102
4.4333	-0.0269	0.0091	0	0.0091
4.4667	-0.0272	0.0091	0	0.0091
4.5	-0.0255	0.0223	0.0011	0.0234
4.5333	-0.0262	0.0091	0.0011	0.0102
4.5667	-0.0252	0	0.0011	0.0011
4.6	-0.0252	0	0.0011	0.0011
4.6333	-0.0252	0.0091	0.0011	0.0102
4.6667	-0.0285	0	0.0011	0.0011
4.7	-0.0288	0	0.0011	0.0011
4.7333	-0.0259	0	0	0
4.7667	-0.0265	0	0.0024	0.0024
4.8	-0.0265	0	0	0
4.8333	-0.0292	0	0	0
4.8667	-0.0259	0	0.0011	0.0011
4.9	-0.0295	0.0091	0.0024	0.0115
4.9333	-0.0285	0	0.0011	0.0011
4.9667	-0.0295	0	0.0011	0.0011
5	-0.0246	0.0091	0	0.0091
5.0333	-0.0285	0.0091	0.0011	0.0102
5.0667	-0.0265	0	0.0011	0.0011
5.1	-0.0295	0	0	0
5.1333	-0.0265	0.0223	0	0.0223
5.1667	-0.0269	0.0091	0.0011	0.0102
5.2	-0.0249	0	0.0011	0.0011
5.2333	-0.0269	0.0223	0.0024	0.0247
5.2667	-0.0259	0	0.0011	0.0011
5.3	-0.0262	0.0091	0	0.0091
5.3333	-0.0279	0.0091	0	0.0091
5.3667	-0.0288	0	0	0
5.4	-0.0279	0.0091	0	0.0091
5.4333	-0.0292	0.0091	0	0.0091
5.4667	-0.0275	0	0.0011	0.0011
5.5	-0.0272	0.0091	0	0.0091
5.5333	-0.0259	0.0091	0.0011	0.0102
5.5667	-0.0272	0	0.0011	0.0011
5.6	-0.0265	0	0	0
5.6333	-0.0292	0.0223	0	0.0223
5.6667	-0.0275	0.0091	0	0.0091
5.7	-0.0275	0	0	0

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
5.7333	-0.0262	0	0.0011	0.0011
5.7667	-0.0262	0.0091	0.0011	0.0102
5.8	-0.0292	0	0	0
5.8333	-0.0269	0.0091	0	0.0091
5.8667	-0.0265	0	0	0
5.9	-0.0246	0	0	0
5.9333	-0.0265	0	0	0
5.9667	-0.0265	0	0.0011	0.0011
6	-0.0246	0.0091	0.0024	0.0115
6.0333	-0.0272	0.0223	0	0.0223
6.0667	-0.0288	0	0.0011	0.0011
6.1	-0.0239	0	0.0011	0.0011
6.1333	-0.0259	0	0.0011	0.0011
6.1667	-0.0272	0	0	0
6.2	-0.0259	0	0.0011	0.0011
6.2333	-0.0252	0	0.0024	0.0024
6.2667	-0.0285	0	0.0011	0.0011
6.3	-0.0295	0.0223	0	0.0223
6.3333	-0.0255	0	0	0
6.3667	-0.0279	0	0.0011	0.0011
6.4	-0.0305	0.0091	0.0011	0.0102
6.4333	-0.0295	0	0.0011	0.0011
6.4667	-0.0279	0	0	0
6.5	-0.0269	0.0091	0	0.0091
6.5333	-0.0252	0.0091	0.0011	0.0102
6.5667	-0.0305	0.0091	0	0.0091
6.6	-0.0259	0.0091	0	0.0091
6.6333	-0.0262	0.0091	0	0.0091
6.6667	-0.0295	0	0	0
6.7	-0.0252	0.0091	0.0024	0.0115
6.7333	-0.0285	0.0223	0.0011	0.0234
6.7667	-0.0282	0.0091	0.0011	0.0102
6.8	-0.0295	0.0091	0	0.0091
6.8333	-0.0275	0	0.0011	0.0011
6.8667	-0.0249	0	0.0024	0.0024
6.9	-0.0272	0.0091	0	0.0091
6.9333	-0.0275	0.0091	0	0.0091
6.9667	-0.0242	0.0091	0.0011	0.0102
7	-0.0269	0	0	0
7.0333	-0.0282	0.0091	0	0.0091
7.0667	-0.0262	0	0	0
7.1	-0.0265	0.0091	0.0011	0.0102
7.1333	-0.0272	0.0223	0.0024	0.0247

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
7.1667	-0.0269	0	0.0011	0.0011
7.2	-0.0269	0.0091	0.0011	0.0102
7.2333	-0.0259	0.0091	0.0024	0.0115
7.2667	-0.0242	0	0.0011	0.0011
7.3	-0.0298	0	0.0011	0.0011
7.3333	-0.0279	0	0.0011	0.0011
7.3667	-0.0223	0.0091	0.0024	0.0115
7.4	-0.017	0	0.0011	0.0011
7.4333	-0.0153	0.0091	0.0011	0.0102
7.4667	-0.0137	0	0.0011	0.0011
7.5	-0.0045	0	0.0011	0.0011
7.5333	-0.0061	0.0091	0	0.0091
7.5667	-0.0002	0.0091	0.0011	0.0102
7.6	-0.0002	0.0223	0.0011	0.0234
7.6333	0.0037	0.0091	0	0.0091
7.6667	0.006	0.0091	0.8874	0.8965
7.7	0.0113	0	0.9663	0.9663
7.7333	0.013	0.0091	1.0242	1.0333
7.7667	0.0139	0.0091	1.0557	1.0648
7.8	0.013	0.0091	1.0676	1.0767
7.8333	0.0153	0.0091	1.057	1.0661
7.8667	0.0133	0	1.0386	1.0386
7.9	0.0133	0.0091	1.0228	1.032
7.9333	0.012	0	1.0058	1.0058
7.9667	0.0133	0	0.9926	0.9926
8	0.0116	0.0091	0.9755	0.9846
8.0333	0.0103	0	0.961	0.961
8.0667	0.0113	0	0.9505	0.9505
8.1	0.0136	0	0.9347	0.9347
8.1333	0.0116	0	0.9216	0.9216
8.1667	0.0116	0	0.9045	0.9045
8.2	0.0153	0.0091	0.8927	0.9018
8.2333	0.0133	0.0091	0.8808	0.8899
8.2667	0.0107	0	0.8624	0.8624
8.3	0.013	0.0091	0.8545	0.8636
8.3333	0.0136	0	0.8361	0.8361
8.3667	0.0123	0	0.8256	0.8256
8.4	0.0123	0	0.8138	0.8138
8.4333	0.0133	0.0091	0.8006	0.8097
8.4667	0.01	0.0091	0.7927	0.8018
8.5	0.0103	0.0091	0.7756	0.7847
8.5333	0.0103	0.0091	0.7717	0.7808
8.5667	0.012	0.0091	0.7612	0.7703

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
8.6	0.0097	0	0.7533	0.7533
8.6333	0.0107	0.0091	0.7414	0.7505
8.6667	0.011	0.0091	0.7336	0.7427
8.7	0.0116	0.0091	0.7243	0.7335
8.7333	0.011	0	0.7151	0.7151
8.7667	0.0103	0.0091	0.7125	0.7216
8.8	0.0113	0.0223	0.702	0.7242
8.8333	0.009	0.0091	0.6902	0.6993
8.8667	0.0103	0	0.6823	0.6823
8.9	0.011	0	0.6783	0.6783
8.9333	0.0084	0	0.6717	0.6717
8.9667	0.0097	0	0.6625	0.6625
9	0.0097	0.0091	0.6599	0.669
9.0333	0.0107	0	0.6494	0.6494
9.0667	0.01	0.0091	0.6441	0.6532
9.1	0.0159	0.0091	0.6428	0.6519
9.1333	0.0143	0.0091	0.6428	0.6519
9.1667	0.0116	0	0.6441	0.6441
9.2	0.0133	0	0.6454	0.6454
9.2333	0.0126	0.0091	0.6349	0.644
9.2667	0.0139	0	0.6336	0.6336
9.3	0.0103	0.0223	0.6349	0.6572
9.3333	0.0123	0.0091	0.631	0.6401
9.3667	0.0153	0	0.6323	0.6323
9.4	0.0123	0	0.6191	0.6191
9.4333	0.0133	0	0.6139	0.6139
9.4667	0.0126	0.0091	0.6178	0.6269
9.5	0.0156	0	0.6152	0.6152
9.5333	0.0103	0	0.606	0.606
9.5667	0.0116	0	0.6034	0.6034
9.6	0.0146	0.0091	0.6021	0.6112
9.6333	0.012	0.0091	0.6034	0.6125
9.6667	0.013	0.0091	0.6007	0.6098
9.7	0.013	0	0.6021	0.6021
9.7333	0.0136	0.0091	0.5889	0.598
9.7667	0.0149	0	0.5942	0.5942
9.8	0.0136	0	0.5902	0.5902
9.8333	0.0126	0.0223	0.5902	0.6125
9.8667	0.0093	0.0223	0.5836	0.6059
9.9	0.013	0	0.5863	0.5863
9.9333	0.0153	0	0.5797	0.5797
9.9667	0.013	0.0223	0.5758	0.598
10	0.0103	0.0091	0.5744	0.5835

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
10.0333	0.0143	0.0091	0.5758	0.5849
10.0667	0.013	0.0091	0.5758	0.5849
10.1	0.0146	0.0223	0.5731	0.5954
10.1333	0.013	0.0091	0.5692	0.5783
10.1667	0.0116	0.0091	0.5626	0.5717
10.2	0.0107	0	0.5639	0.5639
10.2333	0.01	0	0.56	0.56
10.2667	0.011	0.0091	0.5626	0.5717
10.3	0.012	0	0.556	0.556
10.3333	0.0113	0.0091	0.556	0.5651
10.3667	0.011	0	0.5521	0.5521
10.4	0.0123	0.0091	0.5481	0.5572
10.4333	0.008	0.0223	0.5508	0.573
10.4667	0.01	0.0091	0.5455	0.5546
10.5	0.0136	0	0.5429	0.5429
10.5333	0.0113	0.0091	0.5363	0.5454
10.5667	0.0097	0	0.5416	0.5416
10.6	0.012	0	0.5403	0.5403
10.6333	0.0126	0.0091	0.5337	0.5428
10.6667	0.0136	0.0223	0.5363	0.5586
10.7	0.009	0	0.5284	0.5284
10.7333	0.011	0	0.5284	0.5284
10.7667	0.013	0	0.5258	0.5258
10.8	0.01	0	0.5271	0.5271
10.8333	0.013	0.0223	0.5192	0.5415
10.8667	0.0097	0	0.5218	0.5218
10.9	0.0133	0.0091	0.5205	0.5296
10.9333	0.0093	0.0091	0.5218	0.5309
10.9667	0.01	0.0091	0.5153	0.5244
11	0.011	0.0091	0.514	0.5231
11.0333	0.011	0.0091	0.5126	0.5217
11.0667	0.0123	0	0.5126	0.5126
11.1	0.0103	0.0091	0.514	0.5231
11.1333	0.0113	0.0091	0.5087	0.5178
11.1667	0.0103	0	0.514	0.514
11.2	0.0097	0.0091	0.5034	0.5125
11.2333	0.0084	0	0.5021	0.5021
11.2667	0.0116	0	0.5034	0.5034
11.3	0.0097	0	0.4969	0.4969
11.3333	0.007	0	0.5047	0.5047
11.3667	0.01	0.0091	0.5021	0.5112
11.4	0.0113	0	0.4969	0.4969
11.4333	0.0087	0.0091	0.4982	0.5073

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
11.4667	0.0133	0	0.4969	0.4969
11.5	0.0113	0.0091	0.4955	0.5046
11.5333	0.0116	0.0091	0.4995	0.5086
11.5667	0.0097	0.0091	0.4995	0.5086
11.6	0.007	0	0.4942	0.4942
11.6333	0.011	0	0.4982	0.4982
11.6667	0.009	0	0.5008	0.5008
11.7	0.013	0	0.5021	0.5021
11.7333	0.009	0.0223	0.5034	0.5257
11.7667	0.0123	0.0091	0.5087	0.5178
11.8	0.0136	0.0223	0.5074	0.5296
11.8333	0.0139	0	0.5113	0.5113
11.8667	0.0143	0	0.5166	0.5166
11.9	0.0139	0	0.51	0.51
11.9333	0.0143	0.0091	0.514	0.5231
11.9667	0.0133	0	0.5113	0.5113
12	0.0139	0.0091	0.5179	0.527
12.0333	0.0149	0.0091	0.5166	0.5257
12.0667	0.013	0.0091	0.514	0.5231
12.1	0.012	0	0.5126	0.5126
12.1333	0.013	0.0091	0.5166	0.5257
12.1667	0.0136	0	0.5166	0.5166
12.2	0.0133	0	0.5218	0.5218
12.2333	0.0136	0.0091	0.5179	0.527
12.2667	0.0126	0	0.5205	0.5205
12.3	0.0136	0	0.5232	0.5232
12.3333	0.0116	0.0091	0.5153	0.5244
12.3667	0.012	0.0091	0.5166	0.5257
12.4	0.0123	0.0091	0.5113	0.5204
12.4333	0.0116	0.0091	0.5179	0.527
12.4667	0.013	0	0.5166	0.5166
12.5	0.0126	0.0091	0.5126	0.5217
12.5333	0.012	0.0091	0.5074	0.5165
12.5667	0.013	0.0091	0.5047	0.5139
12.6	0.0139	0.0091	0.51	0.5191
12.6333	0.0143	0	0.5153	0.5153
12.6667	0.0143	0.0354	0.5061	0.5415
12.7	0.0133	0	0.5074	0.5074
12.7333	0.013	0.0223	0.5087	0.5309
12.7667	0.011	0	0.5074	0.5074
12.8	0.0107	0	0.5047	0.5047
12.8333	0.0107	0	0.5047	0.5047
12.8667	0.0139	0	0.5008	0.5008



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
12.9	0.0107	0	0.5021	0.5021
12.9333	0.0093	0	0.4995	0.4995
12.9667	0.0123	0.0223	0.5008	0.5231
13	0.0153	0.0091	0.4995	0.5086
13.0333	0.0093	0	0.5034	0.5034
13.0667	0.0113	0	0.4969	0.4969
13.1	0.01	0	0.4955	0.4955
13.1333	0.0126	0.0223	0.4982	0.5204
13.1667	0.0126	0.0091	0.4995	0.5086
13.2	0.0087	0.0091	0.4955	0.5046
13.2333	0.0116	0	0.4969	0.4969
13.2667	0.0103	0.0091	0.4969	0.506
13.3	0.013	0.0091	0.4942	0.5033
13.3333	0.0097	0.0091	0.4903	0.4994
13.3667	0.0113	0.0091	0.4916	0.5007
13.4	0.0107	0	0.4916	0.4916
13.4333	0.0103	0	0.4916	0.4916
13.4667	0.008	0.0091	0.4916	0.5007
13.5	0.0093	0	0.4929	0.4929
13.5333	0.0126	0.0091	0.4916	0.5007
13.5667	0.0077	0	0.489	0.489
13.6	0.0103	0	0.4903	0.4903
13.6333	0.012	0	0.4916	0.4916
13.6667	0.0126	0	0.4916	0.4916
13.7	0.0126	0	0.4903	0.4903
13.7333	0.013	0	0.4942	0.4942
13.7667	0.0126	0	0.4903	0.4903
13.8	0.0133	0	0.489	0.489
13.8333	0.0107	0.0223	0.489	0.5112
13.8667	0.0113	0.0091	0.485	0.4941
13.9	0.0113	0.0091	0.489	0.4981
13.9333	0.0133	0	0.4916	0.4916
13.9667	0.012	0.0091	0.4916	0.5007
14	0.0123	0.0223	0.4903	0.5125
14.0333	0.01	0	0.4837	0.4837
14.0667	0.011	0.0223	0.4929	0.5152
14.1	0.012	0	0.4877	0.4877
14.1333	0.012	0	0.4916	0.4916
14.1667	0.0126	0.0091	0.4863	0.4954
14.2	0.0093	0.0091	0.4877	0.4968
14.2333	0.0107	0	0.4916	0.4916
14.2667	0.0126	0.0091	0.4811	0.4902
14.3	0.01	0.0223	0.4903	0.5125

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
14.3333	0.0087	0	0.4903	0.4903
14.3667	0.0107	0	0.4903	0.4903
14.4	0.0093	0.0091	0.4877	0.4968
14.4333	0.0126	0	0.489	0.489
14.4667	0.013	0.0091	0.489	0.4981
14.5	0.012	0	0.4929	0.4929
14.5333	0.013	0	0.4916	0.4916
14.5667	0.013	0	0.4863	0.4863
14.6	0.01	0.0091	0.4877	0.4968
14.6333	0.0103	0	0.4916	0.4916
14.6667	0.012	0	0.4863	0.4863
14.7	0.0133	0.0091	0.4877	0.4968
14.7333	0.0113	0.0091	0.4877	0.4968
14.7667	0.013	0.0091	0.489	0.4981
14.8	0.0107	0	0.4863	0.4863
14.8333	0.0093	0	0.4877	0.4877
14.8667	0.012	0.0091	0.485	0.4941
14.9	0.0123	0.0091	0.4837	0.4928
14.9333	0.0103	0.0091	0.489	0.4981
14.9667	0.0103	0	0.4903	0.4903
15	0.011	0.0091	0.4903	0.4994
15.0333	0.012	0	0.4863	0.4863
15.0667	0.01	0	0.4916	0.4916
15.1	0.009	0.0091	0.4916	0.5007
15.1333	0.0107	0.0091	0.489	0.4981
15.1667	0.0077	0.0091	0.4903	0.4994
15.2	0.01	0.0091	0.4916	0.5007
15.2333	0.0107	0	0.4877	0.4877
15.2667	0.009	0.0223	0.485	0.5073
15.3	0.0097	0.0091	0.4942	0.5033
15.3333	0.009	0.0091	0.4903	0.4994
15.3667	0.0084	0	0.489	0.489
15.4	0.0153	0	0.4916	0.4916
15.4333	0.0103	0.0223	0.4903	0.5125
15.4667	0.01	0.0091	0.4916	0.5007
15.5	0.0123	0.0091	0.4863	0.4954
15.5333	0.0087	0	0.4903	0.4903
15.5667	0.0126	0.0091	0.4929	0.502
15.6	0.0097	0	0.4929	0.4929
15.6333	0.012	0.0091	0.4955	0.5046
15.6667	0.0097	0.0091	0.4903	0.4994
15.7	0.012	0.0091	0.4969	0.506
15.7333	0.0113	0.0091	0.4916	0.5007

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
15.7667	0.0139	0	0.4942	0.4942
15.8	0.012	0	0.4929	0.4929
15.8333	0.0126	0.0223	0.4942	0.5165
15.8667	0.0156	0.0091	0.4929	0.502
15.9	0.0126	0	0.4955	0.4955
15.9333	0.0113	0.0091	0.4916	0.5007
15.9667	0.0139	0.0091	0.489	0.4981
16	0.0107	0.0091	0.4903	0.4994
16.0333	0.0103	0.0091	0.4982	0.5073
16.0667	0.0116	0	0.4969	0.4969
16.1	0.0139	0	0.4969	0.4969
16.1333	0.0143	0.0091	0.4942	0.5033
16.1667	0.0107	0.0091	0.4982	0.5073
16.2	0.0146	0.0223	0.4955	0.5178
16.2333	0.0146	0.0091	0.4955	0.5046
16.2667	0.0113	0.0091	0.4955	0.5046
16.3	0.013	0.0091	0.5021	0.5112
16.3333	0.013	0.0223	0.5034	0.5257
16.3667	0.0093	0	0.5021	0.5021
16.4	0.0113	0.0091	0.5008	0.5099
16.4333	0.0123	0.0091	0.5061	0.5152
16.4667	0.0143	0.0223	0.5021	0.5244
16.5	0.0123	0.0091	0.4995	0.5086
16.5333	0.0153	0.0091	0.5034	0.5125
16.5667	0.0146	0.0091	0.4995	0.5086
16.6	0.0139	0.0223	0.5008	0.5231
16.6333	0.0126	0	0.5034	0.5034
16.6667	0.0123	0.0091	0.5034	0.5125
16.7	0.0126	0	0.5008	0.5008
16.7333	0.0123	0.0091	0.5021	0.5112
16.7667	0.0139	0	0.4982	0.4982
16.8	0.0139	0.0091	0.5008	0.5099
16.8333	0.009	0.0091	0.5034	0.5125
16.8667	0.0126	0.0223	0.5061	0.5283
16.9	0.013	0.0223	0.5021	0.5244
16.9333	0.0146	0.0223	0.5087	0.5309
16.9667	0.013	0.0091	0.5008	0.5099
17	0.013	0.0091	0.4995	0.5086
17.0333	0.0153	0.0091	0.5034	0.5125
17.0667	0.0139	0.0223	0.5061	0.5283
17.1	0.011	0.0091	0.5008	0.5099
17.1333	0.0153	0.0091	0.4982	0.5073
17.1667	0.0126	0.0091	0.5021	0.5112

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
17.2	0.0159	0.0091	0.4982	0.5073
17.2333	0.0126	0.0091	0.5047	0.5139
17.2667	0.0136	0	0.5034	0.5034
17.3	0.011	0	0.5034	0.5034
17.3333	0.0116	0.0091	0.5021	0.5112
17.3667	0.013	0.0091	0.4995	0.5086
17.4	0.0153	0.0091	0.5087	0.5178
17.4333	0.0146	0.0091	0.51	0.5191
17.4667	0.013	0	0.5021	0.5021
17.5	0.0136	0.0091	0.5047	0.5139
17.5333	0.013	0.0223	0.5034	0.5257
17.5667	0.0143	0	0.4995	0.4995
17.6	0.013	0	0.4995	0.4995
17.6333	0.0136	0	0.5074	0.5074
17.6667	0.0136	0.0091	0.5021	0.5112
17.7	0.0169	0	0.5074	0.5074
17.7333	0.0139	0	0.5021	0.5021
17.7667	0.0126	0.0091	0.5074	0.5165
17.8	0.0139	0	0.5047	0.5047
17.8333	0.0113	0.0091	0.5021	0.5112
17.8667	0.0123	0	0.5061	0.5061
17.9	0.013	0	0.5034	0.5034
17.9333	0.0116	0.0223	0.5061	0.5283
17.9667	0.0107	0	0.5008	0.5008
18	0.0146	0	0.5034	0.5034
18.0333	0.0113	0.0091	0.4995	0.5086
18.0667	0.0116	0.0091	0.4969	0.506
18.1	0.012	0.0091	0.5021	0.5112
18.1333	0.0113	0	0.4969	0.4969
18.1667	0.0103	0.0091	0.4942	0.5033
18.2	0.0107	0.0091	0.4982	0.5073
18.2333	0.012	0	0.4903	0.4903
18.2667	0.012	0	0.4969	0.4969
18.3	0.01	0.0091	0.4916	0.5007
18.3333	0.0103	0	0.4903	0.4903
18.3667	0.0133	0	0.4903	0.4903
18.4	0.0103	0.0223	0.485	0.5073
18.4333	0.0103	0.0223	0.4863	0.5086
18.4667	0.0107	0.0223	0.485	0.5073
18.5	0.0093	0.0223	0.4837	0.506
18.5333	0.0087	0	0.489	0.489
18.5667	0.0116	0.0091	0.4863	0.4954
18.6	0.01	0	0.4837	0.4837

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
18.6333	0.0107	0	0.4837	0.4837
18.6667	0.0113	0.0091	0.485	0.4941
18.7	0.0136	0	0.4771	0.4771
18.7333	0.0113	0	0.4798	0.4798
18.7667	0.011	0.0091	0.4811	0.4902
18.8	0.0084	0.0091	0.4798	0.4889
18.8333	0.0103	0.0091	0.4784	0.4876
18.8667	0.009	0.0223	0.4771	0.4994
18.9	0.0097	0	0.4811	0.4811
18.9333	0.011	0	0.4811	0.4811
18.9667	0.0093	0	0.4784	0.4784
19	0.0097	0.0091	0.4824	0.4915
19.0333	0.0077	0.0091	0.4784	0.4876
19.0667	0.0093	0.0091	0.4784	0.4876
19.1	0.0093	0	0.4758	0.4758
19.1333	0.011	0	0.4732	0.4732
19.1667	0.0103	0.0091	0.4706	0.4797
19.2	0.0087	0.0091	0.4719	0.481
19.2333	0.011	0	0.4706	0.4706
19.2667	0.0074	0	0.4706	0.4706
19.3	0.0093	0	0.4692	0.4692
19.3333	0.0107	0.0091	0.4732	0.4823
19.3667	0.01	0.0091	0.4745	0.4836
19.4	0.0093	0	0.4666	0.4666
19.4333	0.0084	0	0.4745	0.4745
19.4667	0.0074	0.0223	0.4679	0.4902
19.5	0.012	0	0.4653	0.4653
19.5333	0.0074	0.0091	0.464	0.4731
19.5667	0.0093	0.0091	0.4666	0.4757
19.6	0.0087	0.0091	0.4692	0.4783
19.6333	0.008	0.0091	0.464	0.4731
19.6667	0.0103	0.0223	0.4719	0.4941
19.7	0.0093	0.0091	0.4706	0.4797
19.7333	0.0087	0.0223	0.4666	0.4889
19.7667	0.013	0.0091	0.4627	0.4718
19.8	0.0097	0.0091	0.4666	0.4757
19.8333	0.011	0.0223	0.4706	0.4928
19.8667	0.01	0	0.4706	0.4706
19.9	0.0087	0.0223	0.4706	0.4928
19.9333	0.0097	0	0.4745	0.4745
19.9667	0.012	0.0091	0.4745	0.4836
20	0.0123	0	0.4771	0.4771
20.0333	0.0126	0.0223	0.4771	0.4994

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
20.0667	0.0103	0	0.4745	0.4745
20.1	0.0107	0.0091	0.4798	0.4889
20.1333	0.012	0.0223	0.4824	0.5046
20.1667	0.013	0.0223	0.4837	0.506
20.2	0.0146	0.0091	0.4863	0.4954
20.2333	0.0107	0	0.4837	0.4837
20.2667	0.0126	0.0091	0.4811	0.4902
20.3	0.0139	0	0.4863	0.4863
20.3333	0.0133	0.0091	0.489	0.4981
20.3667	0.013	0	0.4877	0.4877
20.4	0.0113	0	0.4916	0.4916
20.4333	0.0126	0	0.4955	0.4955
20.4667	0.0146	0.0091	0.4969	0.506
20.5	0.0116	0.0223	0.5034	0.5257
20.5333	0.0149	0	0.4995	0.4995
20.5667	0.0139	0	0.5061	0.5061
20.6	0.012	0.0091	0.5047	0.5139
20.6333	0.0153	0.0091	0.5061	0.5152
20.6667	0.0126	0	0.5074	0.5074
20.7	0.0136	0	0.5074	0.5074
20.7333	0.013	0.0091	0.5034	0.5125
20.7667	0.0133	0.0091	0.5087	0.5178
20.8	0.0133	0	0.51	0.51
20.8333	0.0139	0.0223	0.5021	0.5244
20.8667	0.0116	0	0.4982	0.4982
20.9	0.0087	0	0.4995	0.4995
20.9333	0.012	0	0.4982	0.4982
20.9667	0.013	0	0.4995	0.4995
21	0.0136	0	0.4969	0.4969
21.0333	0.0113	0.0091	0.4942	0.5033
21.0667	0.012	0.0091	0.4916	0.5007
21.1	0.0113	0.0091	0.4903	0.4994
21.1333	0.0084	0.0091	0.4916	0.5007
21.1667	0.0103	0.0091	0.4942	0.5033
21.2	0.0093	0.0091	0.4877	0.4968
21.2333	0.011	0.0091	0.485	0.4941
21.2667	0.0113	0	0.4837	0.4837
21.3	0.01	0.0091	0.485	0.4941
21.3333	0.0087	0	0.4811	0.4811
21.3667	0.0087	0	0.4837	0.4837
21.4	0.009	0.0091	0.4824	0.4915
21.4333	0.0074	0.0091	0.4771	0.4862
21.4667	0.0107	0.0091	0.4784	0.4876

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
21.5	0.008	0	0.4719	0.4719
21.5333	0.009	0.0091	0.4719	0.481
21.5667	0.0097	0.0091	0.4679	0.477
21.6	0.0074	0	0.4719	0.4719
21.6333	0.009	0	0.4706	0.4706
21.6667	0.0084	0.0091	0.4719	0.481
21.7	0.0087	0.0091	0.4666	0.4757
21.7333	0.0087	0.0091	0.4719	0.481
21.7667	0.0093	0.0091	0.4745	0.4836
21.8	0.009	0.0091	0.4732	0.4823
21.8333	0.0093	0	0.4784	0.4784
21.8667	0.0087	0	0.4745	0.4745
21.9	0.0103	0.0091	0.4811	0.4902
21.9333	0.0107	0.0091	0.4758	0.4849
21.9667	0.0107	0.0091	0.4719	0.481
22	0.0107	0	0.4732	0.4732
22.0333	0.011	0.0091	0.4706	0.4797
22.0667	0.012	0.0091	0.4745	0.4836
22.1	0.0126	0	0.4771	0.4771
22.1333	0.0093	0.0091	0.4679	0.477
22.1667	0.0126	0.0091	0.4811	0.4902
22.2	0.0097	0.0091	0.4758	0.4849
22.2333	0.0123	0.0091	0.4758	0.4849
22.2667	0.0123	0.0091	0.485	0.4941
22.3	0.0123	0.0223	0.4824	0.5046
22.3333	0.0113	0	0.485	0.485
22.3667	0.012	0	0.4798	0.4798
22.4	0.0133	0.0091	0.4758	0.4849
22.4333	0.0116	0	0.4798	0.4798
22.4667	0.0139	0.0091	0.4811	0.4902
22.5	0.0103	0	0.4837	0.4837
22.5333	0.0116	0.0091	0.4784	0.4876
22.5667	0.0143	0.0223	0.485	0.5073
22.6	0.0143	0.0091	0.485	0.4941
22.6333	0.013	0.0091	0.4837	0.4928
22.6667	0.0133	0	0.4837	0.4837
22.7	0.0116	0.0091	0.4877	0.4968
22.7333	0.0156	0	0.489	0.489
22.7667	0.0139	0.0091	0.4942	0.5033
22.8	0.0133	0.0091	0.4877	0.4968
22.8333	0.0126	0	0.4942	0.4942
22.8667	0.0149	0.0091	0.4969	0.506
22.9	0.013	0.0223	0.4955	0.5178

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
22.9333	0.0116	0.0091	0.4955	0.5046
22.9667	0.0139	0	0.4903	0.4903
23	0.0113	0	0.4903	0.4903
23.0333	0.0133	0	0.489	0.489
23.0667	0.011	0	0.4863	0.4863
23.1	0.011	0.0091	0.4955	0.5046
23.1333	0.011	0.0091	0.4929	0.502
23.1667	0.0139	0.0091	0.4916	0.5007
23.2	0.0133	0	0.4903	0.4903
23.2333	0.0116	0	0.4903	0.4903
23.2667	0.0149	0.0091	0.4903	0.4994
23.3	0.0097	0.0223	0.4903	0.5125
23.3333	0.0126	0.0091	0.5008	0.5099
23.3667	0.011	0	0.4929	0.4929
23.4	0.0123	0	0.4942	0.4942
23.4333	0.013	0	0.4837	0.4837
23.4667	0.013	0.0091	0.489	0.4981
23.5	0.0146	0	0.4863	0.4863
23.5333	0.012	0	0.4824	0.4824
23.5667	0.013	0.0223	0.485	0.5073
23.6	0.0113	0.0091	0.4903	0.4994
23.6333	0.01	0	0.4877	0.4877
23.6667	0.0113	0.0091	0.4863	0.4954
23.7	0.0126	0.0091	0.4929	0.502
23.7333	0.0139	0.0091	0.4929	0.502
23.7667	0.0136	0.0091	0.4916	0.5007
23.8	0.0143	0.0091	0.4955	0.5046
23.8333	0.0123	0.0091	0.4877	0.4968
23.8667	0.013	0.0091	0.4877	0.4968
23.9	0.013	0	0.4903	0.4903
23.9333	0.012	0.0091	0.485	0.4941
23.9667	0.0133	0	0.485	0.485
24	0.0103	0	0.485	0.485
24.0333	0.0107	0	0.485	0.485
24.0667	0.0116	0	0.4863	0.4863
24.1	0.0097	0.0223	0.4877	0.5099
24.1333	0.0146	0.0091	0.4837	0.4928
24.1667	0.0139	0.0091	0.4863	0.4954
24.2	0.0113	0	0.485	0.485
24.2333	0.0093	0	0.4811	0.4811
24.2667	0.0139	0.0091	0.4877	0.4968
24.3	0.011	0.0091	0.4837	0.4928
24.3333	0.01	0.0223	0.4837	0.506



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
24.3667	0.0074	0.0091	0.485	0.4941
24.4	0.0103	0	0.4811	0.4811
24.4333	0.0126	0.0223	0.4863	0.5086
24.4667	0.0133	0.0091	0.4837	0.4928
24.5	0.0087	0	0.4784	0.4784
24.5333	0.0126	0	0.4863	0.4863
24.5667	0.01	0.0091	0.485	0.4941
24.6	0.0113	0.0091	0.4863	0.4954
24.6333	0.0123	0	0.4784	0.4784
24.6667	0.0103	0.0091	0.4837	0.4928
24.7	0.0116	0.0091	0.4798	0.4889
24.7333	0.0116	0.0091	0.4798	0.4889
24.7667	0.0116	0.0223	0.4811	0.5033
24.8	0.011	0.0091	0.4745	0.4836
24.8333	0.0084	0.0091	0.4745	0.4836
24.8667	0.0107	0.0223	0.4811	0.5033
24.9	0.0107	0	0.4758	0.4758
24.9333	0.01	0	0.4784	0.4784
24.9667	0.01	0.0091	0.4758	0.4849
25	0.012	0	0.4798	0.4798
25.0333	0.009	0.0091	0.4798	0.4889
25.0667	0.0113	0.0091	0.4758	0.4849
25.1	0.0087	0.0091	0.4745	0.4836
25.1333	0.0093	0.0091	0.4732	0.4823
25.1667	0.013	0	0.4758	0.4758
25.2	0.0103	0	0.4732	0.4732
25.2333	0.0077	0	0.4771	0.4771
25.2667	0.0107	0.0091	0.4758	0.4849
25.3	0.011	0.0091	0.4771	0.4862
25.3333	0.013	0.0091	0.4745	0.4836
25.3667	0.011	0	0.4771	0.4771
25.4	0.0107	0	0.4784	0.4784
25.4333	0.0093	0	0.4745	0.4745
25.4667	0.0107	0.0223	0.4745	0.4968
25.5	0.013	0.0091	0.4745	0.4836
25.5333	0.0113	0.0091	0.4771	0.4862
25.5667	0.0116	0	0.4758	0.4758
25.6	0.0116	0.0091	0.4811	0.4902
25.6333	0.011	0	0.4811	0.4811
25.6667	0.0103	0.0223	0.4784	0.5007
25.7	0.0103	0.0091	0.4811	0.4902
25.7333	0.0146	0.0091	0.4798	0.4889
25.7667	0.0133	0	0.4732	0.4732

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
25.8	0.013	0.0091	0.4771	0.4862
25.8333	0.0143	0.0091	0.4771	0.4862
25.8667	0.0123	0.0091	0.4784	0.4876
25.9	0.0126	0	0.4758	0.4758
25.9333	0.01	0	0.4811	0.4811
25.9667	0.0123	0.0091	0.485	0.4941
26	0.0123	0.0223	0.485	0.5073
26.0333	0.0139	0.0223	0.485	0.5073
26.0667	0.0107	0.0091	0.4916	0.5007
26.1	0.0107	0	0.4903	0.4903
26.1333	0.0139	0.0091	0.4916	0.5007
26.1667	0.0107	0.0091	0.485	0.4941
26.2	0.0123	0	0.4863	0.4863
26.2333	0.0139	0	0.4877	0.4877
26.2667	0.0113	0.0223	0.485	0.5073
26.3	0.01	0.0091	0.485	0.4941
26.3333	0.0126	0	0.485	0.485
26.3667	0.0139	0.0091	0.4877	0.4968
26.4	0.012	0.0223	0.4903	0.5125
26.4333	0.01	0.0091	0.4877	0.4968
26.4667	0.0113	0.0091	0.4877	0.4968
26.5	0.012	0.0091	0.4903	0.4994
26.5333	0.0126	0.0091	0.4903	0.4994
26.5667	0.0146	0.0091	0.4942	0.5033
26.6	0.0116	0.0091	0.4903	0.4994
26.6333	0.0159	0	0.4942	0.4942
26.6667	0.0113	0.0091	0.4955	0.5046
26.7	0.0153	0	0.4916	0.4916
26.7333	0.012	0.0091	0.4929	0.502
26.7667	0.0139	0.0091	0.4942	0.5033
26.8	0.0126	0.0091	0.4942	0.5033
26.8333	0.0139	0	0.4955	0.4955
26.8667	0.013	0.0091	0.4955	0.5046
26.9	0.0126	0.0223	0.5008	0.5231
26.9333	0.0149	0.0091	0.4969	0.506
26.9667	0.0149	0.0091	0.4955	0.5046
27	0.0146	0.0091	0.4969	0.506
27.0333	0.0143	0.0091	0.4942	0.5033
27.0667	0.0126	0.0091	0.4982	0.5073
27.1	0.0139	0	0.4969	0.4969
27.1333	0.0126	0	0.4942	0.4942
27.1667	0.0136	0	0.4969	0.4969
27.2	0.0146	0	0.4995	0.4995

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
27.2333	0.0146	0.0091	0.4916	0.5007
27.2667	0.0116	0.0091	0.4995	0.5086
27.3	0.0133	0	0.5047	0.5047
27.3333	0.013	0.0091	0.4969	0.506
27.3667	0.013	0.0091	0.4942	0.5033
27.4	0.011	0	0.4955	0.4955
27.4333	0.0172	0.0091	0.4916	0.5007
27.4667	0.0126	0.0091	0.4955	0.5046
27.5	0.0126	0	0.4929	0.4929
27.5333	0.013	0.0091	0.4916	0.5007
27.5667	0.0123	0.0091	0.489	0.4981
27.6	0.0126	0.0091	0.489	0.4981
27.6333	0.0103	0.0091	0.4929	0.502
27.6667	0.0123	0.0091	0.4903	0.4994
27.7	0.012	0.0091	0.4929	0.502
27.7333	0.0113	0	0.4877	0.4877
27.7667	0.0087	0	0.489	0.489
27.8	0.0093	0.0091	0.4877	0.4968
27.8333	0.0103	0.0091	0.485	0.4941
27.8667	0.0113	0.0091	0.489	0.4981
27.9	0.0113	0.0223	0.4916	0.5139
27.9333	0.0123	0.0091	0.4903	0.4994
27.9667	0.008	0	0.485	0.485
28	0.0093	0	0.4877	0.4877
28.0333	0.012	0.0091	0.489	0.4981
28.0667	0.0126	0.0223	0.4837	0.506
28.1	0.0133	0	0.489	0.489
28.1333	0.0113	0.0091	0.4824	0.4915
28.1667	0.0107	0	0.485	0.485
28.2	0.0116	0.0223	0.485	0.5073
28.2333	0.011	0.0223	0.4837	0.506
28.2667	0.0116	0.0223	0.4824	0.5046
28.3	0.0107	0	0.4784	0.4784
28.3333	0.0113	0.0091	0.4877	0.4968
28.3667	0.0133	0	0.4837	0.4837
28.4	0.0107	0.0223	0.4798	0.502
28.4333	0.0126	0.0091	0.4784	0.4876
28.4667	0.0103	0.0091	0.4758	0.4849
28.5	0.0123	0	0.4811	0.4811
28.5333	0.011	0.0223	0.4824	0.5046
28.5667	0.0133	0.0091	0.4798	0.4889
28.6	0.009	0.0091	0.4798	0.4889
28.6333	0.011	0.0091	0.4758	0.4849

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
28.6667	0.01	0.0091	0.4784	0.4876
28.7	0.012	0.0091	0.4811	0.4902
28.7333	0.0139	0.0223	0.4745	0.4968
28.7667	0.011	0	0.4784	0.4784
28.8	0.0126	0.0091	0.4771	0.4862
28.8333	0.0084	0	0.4706	0.4706
28.8667	0.0103	0	0.4771	0.4771
28.9	0.013	0	0.4745	0.4745
28.9333	0.01	0	0.4811	0.4811
28.9667	0.0126	0.0354	0.4771	0.5125
29	0.011	0	0.4719	0.4719
29.0333	0.0123	0.0091	0.4745	0.4836
29.0667	0.011	0.0091	0.4745	0.4836
29.1	0.01	0	0.4758	0.4758
29.1333	0.0093	0.0091	0.4758	0.4849
29.1667	0.0087	0	0.4732	0.4732
29.2	0.0107	0.0091	0.4745	0.4836
29.2333	0.0084	0	0.4745	0.4745
29.2667	0.0093	0.0091	0.4745	0.4836
29.3	0.0107	0.0223	0.4811	0.5033
29.3333	0.009	0.0091	0.4745	0.4836
29.3667	0.0077	0	0.4745	0.4745
29.4	0.0093	0.0223	0.4692	0.4915
29.4333	0.011	0.0091	0.4679	0.477
29.4667	0.009	0.0091	0.4745	0.4836
29.5	0.0103	0	0.4706	0.4706
29.5333	0.0074	0	0.4732	0.4732
29.5667	0.0103	0	0.4758	0.4758
29.6	0.0084	0	0.4719	0.4719
29.6333	0.0103	0.0091	0.4732	0.4823
29.6667	0.0139	0.0091	0.4692	0.4783
29.7	0.0123	0	0.4719	0.4719
29.7333	0.011	0.0091	0.4706	0.4797
29.7667	0.0097	0.0223	0.4706	0.4928
29.8	0.0097	0	0.4784	0.4784
29.8333	0.0093	0.0091	0.4771	0.4862
29.8667	0.0097	0.0223	0.4719	0.4941
29.9	0.0123	0	0.4771	0.4771
29.9333	0.0126	0.0091	0.4798	0.4889
29.9667	0.0107	0	0.4719	0.4719
30	0.007	0	0.4732	0.4732
30.0333	0.0133	0.0091	0.4758	0.4849
30.0667	0.0116	0.0091	0.4784	0.4876

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
30.1	0.011	0	0.4758	0.4758
30.1333	0.011	0.0091	0.4784	0.4876
30.1667	0.011	0	0.4706	0.4706
30.2	0.0123	0.0091	0.4758	0.4849
30.2333	0.0093	0	0.4732	0.4732
30.2667	0.0103	0	0.4758	0.4758
30.3	0.0093	0	0.4758	0.4758
30.3333	0.011	0.0091	0.4771	0.4862
30.3667	0.012	0	0.4745	0.4745
30.4	0.0103	0	0.4798	0.4798
30.4333	0.0116	0.0223	0.4784	0.5007
30.4667	0.009	0.0091	0.4863	0.4954
30.5	0.009	0.0223	0.4837	0.506
30.5333	0.0116	0	0.4771	0.4771
30.5667	0.01	0.0091	0.4811	0.4902
30.6	0.0107	0.0091	0.4758	0.4849
30.6333	0.0093	0.0223	0.4824	0.5046
30.6667	0.0103	0.0091	0.4745	0.4836
30.7	0.0123	0.0091	0.4798	0.4889
30.7333	0.011	0.0091	0.4824	0.4915
30.7667	0.0103	0	0.4798	0.4798
30.8	0.0116	0	0.4771	0.4771
30.8333	0.012	0.0091	0.4745	0.4836
30.8667	0.0113	0.0091	0.4771	0.4862
30.9	0.01	0.0091	0.4784	0.4876
30.9333	0.0113	0	0.4811	0.4811
30.9667	0.0093	0	0.4824	0.4824
31	0.0139	0.0091	0.4784	0.4876
31.0333	0.0113	0.0091	0.4811	0.4902
31.0667	0.011	0	0.4811	0.4811
31.1	0.0133	0.0223	0.4771	0.4994
31.1333	0.0139	0	0.4811	0.4811
31.1667	0.0107	0	0.4837	0.4837
31.2	0.0103	0.0091	0.4758	0.4849
31.2333	0.0139	0	0.4784	0.4784
31.2667	0.011	0.0091	0.4811	0.4902
31.3	0.0103	0.0091	0.4837	0.4928
31.3333	0.0107	0.0091	0.4824	0.4915
31.3667	0.0107	0.0091	0.4811	0.4902
31.4	0.01	0.0091	0.4771	0.4862
31.4333	0.0146	0.0091	0.4798	0.4889
31.4667	0.011	0.0091	0.4784	0.4876
31.5	0.0116	0.0091	0.4745	0.4836

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
31.5333	0.0133	0.0091	0.4824	0.4915
31.5667	0.0136	0.0091	0.4837	0.4928
31.6	0.0103	0.0091	0.4784	0.4876
31.6333	0.013	0.0223	0.4824	0.5046
31.6667	0.012	0.0223	0.4798	0.502
31.7	0.0126	0.0091	0.4811	0.4902
31.7333	0.009	0.0091	0.4811	0.4902
31.7667	0.0116	0.0091	0.4824	0.4915
31.8	0.0126	0	0.4824	0.4824
31.8333	0.0116	0.0091	0.4811	0.4902
31.8667	0.0139	0	0.4784	0.4784
31.9	0.0107	0	0.4863	0.4863
31.9333	0.0107	0.0091	0.4798	0.4889
31.9667	0.011	0.0091	0.4877	0.4968
32	0.0123	0	0.4758	0.4758
32.0333	0.0097	0	0.4863	0.4863
32.0667	0.0136	0.0091	0.4863	0.4954
32.1	0.0126	0.0223	0.4758	0.4981
32.1333	0.0153	0	0.485	0.485
32.1667	0.013	0.0091	0.4811	0.4902
32.2	0.0139	0	0.489	0.489
32.2333	0.0116	0.0223	0.485	0.5073
32.2667	0.0116	0.0091	0.4798	0.4889
32.3	0.0126	0.0091	0.4798	0.4889
32.3333	0.0116	0	0.4837	0.4837
32.3667	0.0097	0	0.4824	0.4824
32.4	0.0139	0.0091	0.4824	0.4915
32.4333	0.0133	0.0091	0.4837	0.4928
32.4667	0.0139	0	0.4784	0.4784
32.5	0.0153	0.0091	0.4811	0.4902
32.5333	0.0146	0.0091	0.4758	0.4849
32.5667	0.0133	0	0.4863	0.4863
32.6	0.0136	0.0223	0.4863	0.5086
32.6333	0.0143	0	0.4837	0.4837
32.6667	0.0087	0	0.4877	0.4877
32.7	0.0126	0	0.4863	0.4863
32.7333	0.0136	0.0091	0.4916	0.5007
32.7667	0.0169	0.0091	0.4877	0.4968
32.8	0.0103	0	0.4837	0.4837
32.8333	0.0126	0	0.4877	0.4877
32.8667	0.013	0	0.4837	0.4837
32.9	0.012	0	0.485	0.485
32.9333	0.012	0.0223	0.485	0.5073

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
32.9667	0.0113	0	0.4903	0.4903
33	0.0143	0.0091	0.485	0.4941
33.0333	0.0139	0.0223	0.4837	0.506
33.0667	0.0143	0	0.4811	0.4811
33.1	0.0136	0.0091	0.4811	0.4902
33.1333	0.0123	0.0091	0.4863	0.4954
33.1667	0.013	0.0091	0.4863	0.4954
33.2	0.0097	0.0091	0.4863	0.4954
33.2333	0.0133	0.0091	0.4863	0.4954
33.2667	0.0153	0	0.4824	0.4824
33.3	0.0123	0.0091	0.4877	0.4968
33.3333	0.0143	0.0091	0.4863	0.4954
33.3667	0.0123	0	0.4903	0.4903
33.4	0.011	0.0091	0.485	0.4941
33.4333	0.013	0.0091	0.489	0.4981
33.4667	0.0153	0	0.489	0.489
33.5	0.0126	0.0091	0.4837	0.4928
33.5333	0.0103	0.0091	0.4903	0.4994
33.5667	0.0146	0.0091	0.4929	0.502
33.6	0.0136	0	0.4877	0.4877
33.6333	0.0107	0	0.4929	0.4929
33.6667	0.0123	0	0.489	0.489
33.7	0.0113	0.0091	0.4877	0.4968
33.7333	0.0136	0	0.4903	0.4903
33.7667	0.012	0.0091	0.4837	0.4928
33.8	0.0146	0	0.485	0.485
33.8333	0.0143	0.0091	0.4863	0.4954
33.8667	0.011	0.0223	0.4877	0.5099
33.9	0.0123	0.0091	0.4903	0.4994
33.9333	0.0143	0.0091	0.4955	0.5046
33.9667	0.0143	0.0091	0.4903	0.4994
34	0.0116	0.0091	0.485	0.4941
34.0333	0.0136	0.0223	0.4955	0.5178
34.0667	0.0146	0.0091	0.4929	0.502
34.1	0.0153	0	0.4903	0.4903
34.1333	0.0139	0.0091	0.4942	0.5033
34.1667	0.0139	0.0223	0.4929	0.5152
34.2	0.0136	0.0091	0.4982	0.5073
34.2333	0.0097	0.0223	0.4942	0.5165
34.2667	0.0133	0	0.4982	0.4982
34.3	0.0139	0	0.4969	0.4969
34.3333	0.0153	0	0.4955	0.4955
34.3667	0.0153	0.0223	0.4929	0.5152

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
34.4	0.0126	0.0091	0.4969	0.506
34.4333	0.0139	0.0091	0.4969	0.506
34.4667	0.0107	0.0091	0.4969	0.506
34.5	0.01	0.0091	0.4969	0.506
34.5333	0.0133	0.0223	0.5021	0.5244
34.5667	0.0126	0	0.4995	0.4995
34.6	0.012	0	0.4969	0.4969
34.6333	0.013	0	0.4995	0.4995
34.6667	0.0139	0.0091	0.4982	0.5073
34.7	0.0126	0.0091	0.4969	0.506
34.7333	0.011	0.0091	0.4995	0.5086
34.7667	0.0093	0.0091	0.4916	0.5007
34.8	0.0139	0.0091	0.5034	0.5125
34.8333	0.0103	0.0091	0.4942	0.5033
34.8667	0.0133	0	0.5034	0.5034
34.9	0.0126	0	0.4995	0.4995
34.9333	0.0139	0	0.5008	0.5008
34.9667	0.0143	0.0091	0.5034	0.5125
35	0.0139	0	0.4995	0.4995
35.0333	0.0136	0.0091	0.4995	0.5086
35.0667	0.0153	0.0091	0.4995	0.5086
35.1	0.0146	0.0091	0.5034	0.5125
35.1333	0.013	0	0.5034	0.5034
35.1667	0.0153	0.0091	0.5008	0.5099
35.2	0.012	0.0091	0.5021	0.5112
35.2333	0.0139	0.0091	0.5008	0.5099
35.2667	0.0103	0.0223	0.5074	0.5296
35.3	0.0133	0.0223	0.5061	0.5283
35.3333	0.0143	0	0.5061	0.5061
35.3667	0.0123	0	0.5034	0.5034
35.4	0.012	0	0.5008	0.5008
35.4333	0.0153	0	0.5008	0.5008
35.4667	0.0113	0.0091	0.5034	0.5125
35.5	0.0126	0.0091	0.5034	0.5125
35.5333	0.011	0.0091	0.5047	0.5139
35.5667	0.0153	0.0091	0.5021	0.5112
35.6	0.0153	0.0091	0.5061	0.5152
35.6333	0.0139	0.0091	0.5074	0.5165
35.6667	0.0126	0	0.5047	0.5047
35.7	0.0143	0.0091	0.5034	0.5125
35.7333	0.0107	0	0.5074	0.5074
35.7667	0.0139	0.0091	0.5061	0.5152
35.8	0.0149	0.0091	0.5074	0.5165



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
35.8333	0.0126	0.0091	0.5074	0.5165
35.8667	0.013	0	0.5074	0.5074
35.9	0.0133	0.0223	0.5008	0.5231
35.9333	0.0116	0.0091	0.5074	0.5165
35.9667	0.0123	0	0.5047	0.5047
36	0.0097	0	0.5047	0.5047
36.0333	0.0116	0.0091	0.5034	0.5125
36.0667	0.013	0.0091	0.5034	0.5125
36.1	0.0139	0.0091	0.5034	0.5125
36.1333	0.0126	0.0091	0.5034	0.5125
36.1667	0.0153	0.0091	0.5008	0.5099
36.2	0.0126	0	0.5034	0.5034
36.2333	0.0116	0.0223	0.5021	0.5244
36.2667	0.0133	0.0091	0.4995	0.5086
36.3	0.0149	0.0091	0.5087	0.5178
36.3333	0.0113	0.0091	0.5034	0.5125
36.3667	0.0126	0	0.5047	0.5047
36.4	0.0156	0	0.5061	0.5061
36.4333	0.0149	0.0091	0.4995	0.5086
36.4667	0.0126	0	0.5034	0.5034
36.5	0.0136	0.0091	0.5034	0.5125
36.5333	0.0159	0.0091	0.5047	0.5139
36.5667	0.009	0.0091	0.5034	0.5125
36.6	0.0116	0.0223	0.4969	0.5191
36.6333	0.0133	0.0091	0.4955	0.5046
36.6667	0.0097	0	0.4982	0.4982
36.7	0.0126	0	0.5034	0.5034
36.7333	0.0126	0.0223	0.5021	0.5244
36.7667	0.0113	0	0.5021	0.5021
36.8	0.01	0	0.5061	0.5061
36.8333	0.0139	0	0.5047	0.5047
36.8667	0.011	0	0.5034	0.5034
36.9	0.0103	0	0.5061	0.5061
36.9333	0.0123	0.0223	0.4942	0.5165
36.9667	0.012	0.0091	0.5021	0.5112
37	0.0139	0	0.5034	0.5034
37.0333	0.0143	0	0.5008	0.5008
37.0667	0.0149	0	0.4995	0.4995
37.1	0.0146	0.0091	0.5008	0.5099
37.1333	0.012	0.0223	0.5034	0.5257
37.1667	0.013	0	0.5034	0.5034
37.2	0.0149	0.0091	0.5008	0.5099
37.2333	0.0133	0	0.5061	0.5061

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
37.2667	0.0146	0.0091	0.5034	0.5125
37.3	0.0116	0.0223	0.5008	0.5231
37.3333	0.0136	0.0091	0.5061	0.5152
37.3667	0.0133	0	0.4982	0.4982
37.4	0.0116	0.0223	0.5021	0.5244
37.4333	0.0143	0.0091	0.4982	0.5073
37.4667	0.0123	0	0.5008	0.5008
37.5	0.0133	0.0091	0.5021	0.5112
37.5333	0.012	0.0354	0.5008	0.5362
37.5667	0.0123	0.0223	0.5008	0.5231
37.6	0.0146	0.0091	0.5021	0.5112
37.6333	0.0113	0.0091	0.5034	0.5125
37.6667	0.011	0	0.4955	0.4955
37.7	0.0123	0	0.4995	0.4995
37.7333	0.0107	0	0.5008	0.5008
37.7667	0.0139	0.0223	0.4995	0.5217
37.8	0.0143	0	0.4969	0.4969
37.8333	0.0153	0	0.4995	0.4995
37.8667	0.01	0.0091	0.4995	0.5086
37.9	0.0116	0	0.4982	0.4982
37.9333	0.012	0	0.5008	0.5008
37.9667	0.0133	0.0091	0.4955	0.5046
38	0.0146	0	0.4969	0.4969
38.0333	0.0113	0.0091	0.4955	0.5046
38.0667	0.0153	0	0.4916	0.4916
38.1	0.012	0.0091	0.4969	0.506
38.1333	0.0126	0.0091	0.4995	0.5086
38.1667	0.0103	0	0.5021	0.5021
38.2	0.011	0.0091	0.4929	0.502
38.2333	0.0103	0	0.4929	0.4929
38.2667	0.0143	0.0091	0.4955	0.5046
38.3	0.0116	0	0.4982	0.4982
38.3333	0.0116	0.0223	0.489	0.5112
38.3667	0.0113	0.0223	0.4982	0.5204
38.4	0.0159	0	0.4903	0.4903
38.4333	0.0143	0	0.4942	0.4942
38.4667	0.0113	0.0091	0.4955	0.5046
38.5	0.0139	0.0091	0.4955	0.5046
38.5333	0.0126	0.0091	0.4955	0.5046
38.5667	0.0146	0.0091	0.5034	0.5125
38.6	0.013	0	0.5126	0.5126
38.6333	0.012	0.0091	0.5179	0.527
38.6667	0.0143	0	0.5258	0.5258

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
38.7	0.012	0	0.5376	0.5376
38.7333	0.0153	0	0.5429	0.5429
38.7667	0.0166	0.0354	0.5495	0.5849
38.8	0.0163	0.0091	0.56	0.5691
38.8333	0.0163	0	0.5652	0.5652
38.8667	0.0143	0.0223	0.5784	0.6006
38.9	0.0169	0.0223	0.6007	0.623
38.9333	0.0212	0.0091	0.6297	0.6388
38.9667	0.0215	0.0091	0.6678	0.6769
39	0.0265	0.0223	0.7138	0.7361
39.0333	0.0307	0	0.7625	0.7625
39.0667	0.0314	0.0223	0.8138	0.836
39.1	0.0353	0	0.8506	0.8506
39.1333	0.0334	0.0091	0.9019	0.911
39.1667	0.0357	0.0091	0.9453	0.9544
39.2	0.039	0	0.9913	0.9913
39.2333	0.0419	0	1.0478	1.0478
39.2667	0.0439	0.0223	1.0991	1.1214
39.3	0.0469	0.0223	1.1543	1.1766
39.3333	0.0502	0.0091	1.2056	1.2147
39.3667	0.0541	0	1.2648	1.2648
39.4	0.0571	0.0091	1.3213	1.3304
39.4333	0.0653	0	1.3976	1.3976
39.4667	0.0706	0	1.4857	1.4857
39.5	0.0771	0.0223	1.5791	1.6013
39.5333	0.0857	0.0091	1.6882	1.6973
39.5667	0.0962	0	1.779	1.779
39.6	0.1058	0	1.8776	1.8776
39.6333	0.115	0.0091	1.9604	1.9695
39.6667	0.1252	0	2.038	2.038
39.7	0.1341	0	2.1051	2.1051
39.7333	0.1407	0.0091	2.1511	2.1602
39.7667	0.1433	0	2.1997	2.1997
39.8	0.1548	0.0091	2.2326	2.2417
39.8333	0.1565	0	2.2773	2.2773
39.8667	0.165	0.0091	2.2944	2.3035
39.9	0.1759	0	2.326	2.326
39.9333	0.1759	0	2.347	2.347
39.9667	0.1808	0	2.3654	2.3654
40	0.1858	0.0091	2.376	2.3851
40.0333	0.1897	0	2.3825	2.3825
40.0667	0.1917	0	2.3773	2.3773
40.1	0.195	0.0091	2.3852	2.3943

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
40.1333	0.1884	0.0091	2.3838	2.3929
40.1667	0.19	0	2.3733	2.3733
40.2	0.1871	0.0091	2.3589	2.368
40.2333	0.1854	0.0223	2.3391	2.3614
40.2667	0.1802	0.0091	2.3312	2.3403
40.3	0.1802	0.0091	2.3128	2.3219
40.3333	0.1782	0	2.301	2.301
40.3667	0.1732	0.0091	2.2826	2.2917
40.4	0.1749	0	2.2668	2.2668
40.4333	0.1713	0	2.255	2.255
40.4667	0.1686	0	2.2445	2.2445
40.5	0.1647	0	2.2326	2.2326
40.5333	0.1663	0.0091	2.2234	2.2325
40.5667	0.1617	0.0091	2.2076	2.2167
40.6	0.1627	0.0091	2.1984	2.2075
40.6333	0.1611	0.0091	2.1958	2.2049
40.6667	0.1591	0.0091	2.1748	2.1839
40.7	0.1607	0.0091	2.1682	2.1773
40.7333	0.1578	0.0223	2.1577	2.1799
40.7667	0.1571	0.0091	2.1471	2.1563
40.8	0.1568	0.0091	2.1327	2.1418
40.8333	0.1542	0.0091	2.1327	2.1418
40.8667	0.1575	0.0091	2.1261	2.1352
40.9	0.1555	0	2.1169	2.1169
40.9333	0.1575	0	2.1077	2.1077
40.9667	0.1578	0.0091	2.1024	2.1115
41	0.1575	0.0091	2.0932	2.1023
41.0333	0.1565	0.0091	2.0906	2.0997
41.0667	0.1578	0.0223	2.0827	2.105
41.1	0.1594	0	2.0801	2.0801
41.1333	0.1627	0	2.0735	2.0735
41.1667	0.1601	0.0091	2.0735	2.0826
41.2	0.1601	0.0091	2.063	2.0721
41.2333	0.163	0.0091	2.0643	2.0734
41.2667	0.164	0.0091	2.0538	2.0629
41.3	0.1634	0.0091	2.0564	2.0655
41.3333	0.1663	0.0091	2.0538	2.0629
41.3667	0.1667	0.0223	2.0551	2.0774
41.4	0.1686	0	2.0604	2.0604
41.4333	0.1673	0.0091	2.0604	2.0695
41.4667	0.1703	0	2.0538	2.0538
41.5	0.1653	0	2.0498	2.0498
41.5333	0.1663	0	2.0472	2.0472

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
41.5667	0.1716	0.0091	2.0485	2.0576
41.6	0.1703	0	2.0525	2.0525
41.6333	0.1703	0.0091	2.0538	2.0629
41.6667	0.1746	0.0091	2.0446	2.0537
41.7	0.1732	0.0091	2.0538	2.0629
41.7333	0.1729	0	2.0525	2.0525
41.7667	0.1759	0.0091	2.0485	2.0576
41.8	0.1749	0.0223	2.0512	2.0734
41.8333	0.1798	0	2.0472	2.0472
41.8667	0.1759	0	2.0538	2.0538
41.9	0.1746	0.0223	2.059	2.0813
41.9333	0.1775	0	2.063	2.063
41.9667	0.1802	0.0091	2.0604	2.0695
42	0.1818	0.0091	2.0617	2.0708
42.0333	0.1798	0.0223	2.0604	2.0826
42.0667	0.1802	0.0091	2.063	2.0721
42.1	0.1811	0.0223	2.0669	2.0892
42.1333	0.1808	0	2.0669	2.0669
42.1667	0.1841	0.0091	2.0696	2.0787
42.2	0.1844	0.0091	2.0709	2.08
42.2333	0.1815	0.0091	2.0827	2.0918
42.2667	0.1844	0	2.0775	2.0775
42.3	0.1844	0	2.0761	2.0761
42.3333	0.1864	0	2.0801	2.0801
42.3667	0.1848	0.0091	2.0814	2.0905
42.4	0.1877	0	2.0801	2.0801
42.4333	0.1877	0	2.0814	2.0814
42.4667	0.189	0.0354	2.0801	2.1155
42.5	0.1854	0	2.0867	2.0867
42.5333	0.1887	0.0091	2.0853	2.0944
42.5667	0.189	0.0223	2.0893	2.1115
42.6	0.1914	0	2.0932	2.0932
42.6333	0.1904	0.0091	2.0985	2.1076
42.6667	0.1923	0.0091	2.0998	2.1089
42.7	0.1923	0	2.0972	2.0972
42.7333	0.192	0.0091	2.1051	2.1142
42.7667	0.19	0.0091	2.1038	2.1129
42.8	0.1917	0	2.1077	2.1077
42.8333	0.1963	0	2.109	2.109
42.8667	0.1904	0	2.1103	2.1103
42.9	0.194	0	2.1116	2.1116
42.9333	0.1914	0.0091	2.1116	2.1207
42.9667	0.1927	0	2.1182	2.1182

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
43	0.1969	0.0091	2.1208	2.13
43.0333	0.194	0.0223	2.1235	2.1457
43.0667	0.1969	0.0223	2.1195	2.1418
43.1	0.1983	0.0091	2.1274	2.1365
43.1333	0.1969	0.0091	2.1222	2.1313
43.1667	0.196	0	2.1261	2.1261
43.2	0.195	0.0091	2.1327	2.1418
43.2333	0.1966	0.0091	2.1314	2.1405
43.2667	0.1973	0	2.1379	2.1379
43.3	0.2006	0.0091	2.1301	2.1392
43.3333	0.1989	0.0223	2.1432	2.1655
43.3667	0.1983	0	2.1379	2.1379
43.4	0.1963	0	2.1419	2.1419
43.4333	0.1999	0.0223	2.1432	2.1655
43.4667	0.1996	0.0091	2.1406	2.1497
43.5	0.2002	0	2.1511	2.1511
43.5333	0.2025	0.0091	2.1524	2.1615
43.5667	0.2032	0	2.1498	2.1498
43.6	0.2016	0.0091	2.1537	2.1628
43.6333	0.2025	0	2.1537	2.1537
43.6667	0.2002	0.0091	2.159	2.1681
43.7	0.2035	0.0091	2.1629	2.172
43.7333	0.2029	0	2.1616	2.1616
43.7667	0.2048	0	2.1695	2.1695
43.8	0.2039	0	2.1656	2.1656
43.8333	0.2042	0	2.1695	2.1695
43.8667	0.2048	0	2.1695	2.1695
43.9	0.2062	0	2.1761	2.1761
43.9333	0.2075	0	2.1748	2.1748
43.9667	0.2058	0	2.1748	2.1748
44	0.2075	0	2.1761	2.1761
44.0333	0.2075	0	2.1787	2.1787
44.0667	0.2078	0.0091	2.1813	2.1904
44.1	0.2095	0.0223	2.1827	2.2049
44.1333	0.2075	0.0091	2.1866	2.1957
44.1667	0.1996	0.0091	2.1813	2.1904
44.2	0.2022	0	2.1853	2.1853
44.2333	0.2006	0.0223	2.184	2.2062
44.2667	0.1986	0.0223	2.1748	2.197
44.3	0.1881	0	2.1748	2.1748
44.3333	0.1927	0	2.1734	2.1734
44.3667	0.1894	0.0091	2.1734	2.1826
44.4	0.1933	0.0223	2.1734	2.1957

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
44.4333	0.1897	0.0091	2.1695	2.1786
44.4667	0.1841	0.0091	2.1629	2.172
44.5	0.1844	0	2.159	2.159
44.5333	0.1858	0.0223	2.1537	2.176
44.5667	0.1867	0.0091	2.1524	2.1615
44.6	0.1848	0	2.1524	2.1524
44.6333	0.1904	0.0091	2.1445	2.1536
44.6667	0.1887	0.0091	2.1511	2.1602
44.7	0.1907	0	2.1564	2.1564
44.7333	0.1907	0.0091	2.1537	2.1628
44.7667	0.1897	0	2.1537	2.1537
44.8	0.1864	0	2.1564	2.1564
44.8333	0.1867	0	2.1445	2.1445
44.8667	0.1897	0.0091	2.1393	2.1484
44.9	0.1884	0.0091	2.1445	2.1536
44.9333	0.189	0	2.1379	2.1379
44.9667	0.1871	0.0091	2.1406	2.1497
45	0.1904	0	2.1445	2.1445
45.0333	0.1933	0	2.1432	2.1432
45.0667	0.1943	0	2.1458	2.1458
45.1	0.1969	0	2.1445	2.1445
45.1333	0.1864	0.0223	2.1366	2.1589
45.1667	0.19	0.0091	2.1393	2.1484
45.2	0.1917	0	2.1406	2.1406
45.2333	0.1933	0.0091	2.1419	2.151
45.2667	0.1838	0	2.1366	2.1366
45.3	0.1831	0	2.134	2.134
45.3333	0.1874	0	2.1314	2.1314
45.3667	0.1871	0.0091	2.1327	2.1418
45.4	0.192	0.0091	2.1314	2.1405
45.4333	0.1923	0	2.1406	2.1406
45.4667	0.1923	0.0091	2.1301	2.1392
45.5	0.1969	0.0091	2.1406	2.1497
45.5333	0.196	0.0091	2.1327	2.1418
45.5667	0.1831	0.0091	2.1261	2.1352
45.6	0.1838	0	2.1261	2.1261
45.6333	0.1867	0	2.1301	2.1301
45.6667	0.19	0.0091	2.1301	2.1392
45.7	0.1917	0	2.1261	2.1261
45.7333	0.1818	0	2.1274	2.1274
45.7667	0.1848	0	2.1195	2.1195
45.8	0.1838	0	2.1182	2.1182
45.8333	0.1884	0	2.1235	2.1235

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
45.8667	0.1874	0	2.1261	2.1261
45.9	0.1907	0.0091	2.1261	2.1352
45.9333	0.1897	0	2.1301	2.1301
45.9667	0.195	0	2.1222	2.1222
46	0.1881	0.0223	2.1261	2.1484
46.0333	0.1927	0.0091	2.1235	2.1326
46.0667	0.1844	0	2.1169	2.1169
46.1	0.1904	0.0091	2.1156	2.1247
46.1333	0.1864	0	2.1103	2.1103
46.1667	0.1884	0	2.1077	2.1077
46.2	0.1907	0.0223	2.113	2.1352
46.2333	0.1881	0	2.1182	2.1182
46.2667	0.1858	0.0091	2.1195	2.1286
46.3	0.1838	0	2.1156	2.1156
46.3333	0.1805	0	2.1103	2.1103
46.3667	0.1815	0.0091	2.109	2.1181
46.4	0.1815	0.0223	2.1024	2.1247
46.4333	0.1864	0.0091	2.1024	2.1115
46.4667	0.1864	0.0091	2.1051	2.1142
46.5	0.189	0	2.1051	2.1051
46.5333	0.1877	0.0223	2.1116	2.1339
46.5667	0.1917	0	2.1156	2.1156
46.6	0.1927	0.0223	2.1182	2.1405
46.6333	0.1966	0	2.1235	2.1235
46.6667	0.1976	0	2.1208	2.1208
46.7	0.2002	0.0091	2.1222	2.1313
46.7333	0.1999	0	2.1301	2.1301
46.7667	0.1986	0.0091	2.1261	2.1352
46.8	0.2035	0.0091	2.1314	2.1405
46.8333	0.2055	0.0091	2.134	2.1431
46.8667	0.1969	0	2.1327	2.1327
46.9	0.1904	0.0091	2.1287	2.1378
46.9333	0.1828	0.0091	2.1222	2.1313
46.9667	0.1792	0	2.1169	2.1169
47	0.1782	0.0223	2.113	2.1352
47.0333	0.1802	0	2.109	2.109
47.0667	0.1811	0.0091	2.1143	2.1234
47.1	0.1815	0.0091	2.1156	2.1247
47.1333	0.1818	0	2.1182	2.1182
47.1667	0.1825	0.0223	2.1182	2.1405
47.2	0.1835	0.0223	2.1103	2.1326
47.2333	0.1825	0.0091	2.113	2.1221
47.2667	0.1795	0	2.1103	2.1103



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
47.3	0.1838	0	2.1169	2.1169
47.3333	0.1821	0.0091	2.1116	2.1207
47.3667	0.1831	0.0091	2.109	2.1181
47.4	0.1851	0	2.109	2.109
47.4333	0.1854	0.0091	2.109	2.1181
47.4667	0.1848	0	2.1116	2.1116
47.5	0.1861	0.0091	2.1077	2.1168
47.5333	0.1828	0.0091	2.1064	2.1155
47.5667	0.1831	0.0091	2.1103	2.1194
47.6	0.1867	0.0091	2.1064	2.1155
47.6333	0.1861	0.0091	2.1156	2.1247
47.6667	0.1828	0.0091	2.109	2.1181
47.7	0.1838	0	2.1051	2.1051
47.7333	0.1848	0	2.1051	2.1051
47.7667	0.1831	0	2.1116	2.1116
47.8	0.1838	0.0091	2.1064	2.1155
47.8333	0.1825	0.0091	2.1077	2.1168
47.8667	0.1831	0.0091	2.1051	2.1142
47.9	0.1805	0	2.1024	2.1024
47.9333	0.1838	0.0091	2.0972	2.1063
47.9667	0.1818	0.0091	2.1024	2.1115
48	0.1802	0.0091	2.1038	2.1129
48.0333	0.1798	0	2.1011	2.1011
48.0667	0.1805	0	2.0998	2.0998
48.1	0.1798	0.0091	2.0972	2.1063
48.1333	0.1825	0	2.0998	2.0998
48.1667	0.1811	0.0091	2.0945	2.1037
48.2	0.1825	0.0091	2.0932	2.1023
48.2333	0.1808	0.0091	2.0959	2.105
48.2667	0.1798	0.0091	2.0972	2.1063
48.3	0.1798	0.0223	2.0932	2.1155
48.3333	0.1811	0.0223	2.0932	2.1155
48.3667	0.1805	0.0091	2.0919	2.101
48.4	0.1746	0.0091	2.0906	2.0997
48.4333	0.1769	0.0091	2.0919	2.101
48.4667	0.1798	0	2.0945	2.0945
48.5	0.1782	0.0091	2.088	2.0971
48.5333	0.1792	0.0091	2.0906	2.0997
48.5667	0.1779	0.0223	2.0853	2.1076
48.6	0.1782	0.0091	2.0827	2.0918
48.6333	0.1795	0	2.0867	2.0867
48.6667	0.1788	0	2.084	2.084
48.7	0.1772	0.0091	2.0853	2.0944

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
48.7333	0.1746	0.0091	2.0827	2.0918
48.7667	0.1779	0.0091	2.0853	2.0944
48.8	0.1756	0.0091	2.0827	2.0918
48.8333	0.1732	0.0091	2.0827	2.0918
48.8667	0.1729	0.0091	2.0801	2.0892
48.9	0.1759	0.0091	2.0801	2.0892
48.9333	0.1739	0	2.0788	2.0788
48.9667	0.1756	0.0223	2.0735	2.0958
49	0.1752	0.0091	2.0735	2.0826
49.0333	0.1765	0	2.0775	2.0775
49.0667	0.1739	0	2.0801	2.0801
49.1	0.1769	0.0091	2.0735	2.0826
49.1333	0.1732	0.0223	2.0696	2.0918
49.1667	0.1756	0	2.0682	2.0682
49.2	0.1749	0	2.0735	2.0735
49.2333	0.1746	0.0091	2.0669	2.076
49.2667	0.1746	0.0091	2.0709	2.08
49.3	0.1736	0.0091	2.0656	2.0747
49.3333	0.1729	0.0091	2.059	2.0681
49.3667	0.1696	0	2.0735	2.0735
49.4	0.1762	0.0091	2.0643	2.0734
49.4333	0.1742	0	2.063	2.063
49.4667	0.1762	0	2.0656	2.0656
49.5	0.1765	0.0223	2.0604	2.0826
49.5333	0.1723	0.0223	2.0604	2.0826
49.5667	0.1723	0	2.0617	2.0617
49.6	0.1729	0.0091	2.059	2.0681
49.6333	0.1716	0.0091	2.0538	2.0629
49.6667	0.1759	0.0223	2.0498	2.0721
49.7	0.1746	0.0091	2.0525	2.0616
49.7333	0.1723	0.0091	2.0498	2.0589
49.7667	0.1749	0	2.0525	2.0525
49.8	0.1726	0.0091	2.0551	2.0642
49.8333	0.1729	0.0091	2.0525	2.0616
49.8667	0.1756	0.0223	2.059	2.0813
49.9	0.1719	0.0091	2.0538	2.0629
49.9333	0.1749	0.0091	2.0564	2.0655
49.9667	0.1736	0	2.0525	2.0525
50	0.1765	0.0091	2.0538	2.0629
50.0333	0.1719	0.0091	2.0498	2.0589
50.0667	0.1723	0	2.0525	2.0525
50.1	0.1772	0	2.0498	2.0498
50.1333	0.1749	0	2.0525	2.0525

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
50.1667	0.1762	0.0091	2.0498	2.0589
50.2	0.1759	0.0091	2.0525	2.0616
50.2333	0.1765	0.0091	2.0512	2.0603
50.2667	0.1736	0	2.0512	2.0512
50.3	0.1785	0.0223	2.059	2.0813
50.3333	0.1756	0.0091	2.0525	2.0616
50.3667	0.1782	0.0091	2.0525	2.0616
50.4	0.1772	0	2.0512	2.0512
50.4333	0.1779	0	2.0525	2.0525
50.4667	0.1769	0.0223	2.0498	2.0721
50.5	0.1749	0.0091	2.0498	2.0589
50.5333	0.1779	0.0091	2.0551	2.0642
50.5667	0.1792	0	2.0551	2.0551
50.6	0.1785	0.0091	2.0472	2.0563
50.6333	0.1785	0.0091	2.0472	2.0563
50.6667	0.1749	0.0091	2.0617	2.0708
50.7	0.1805	0.0223	2.0604	2.0826
50.7333	0.1772	0	2.0472	2.0472
50.7667	0.1782	0.0091	2.0525	2.0616
50.8	0.1792	0.0091	2.0498	2.0589
50.8333	0.1782	0.0091	2.0551	2.0642
50.8667	0.1782	0.0354	2.0512	2.0866
50.9	0.1788	0.0091	2.0498	2.0589
50.9333	0.1798	0	2.0564	2.0564
50.9667	0.1815	0.0091	2.0525	2.0616
51	0.1775	0.0223	2.0525	2.0747
51.0333	0.1811	0.0091	2.0512	2.0603
51.0667	0.1808	0.0091	2.0485	2.0576
51.1	0.1811	0.0091	2.0525	2.0616
51.1333	0.1795	0.0091	2.0525	2.0616
51.1667	0.1825	0.0223	2.0512	2.0734
51.2	0.1795	0.0091	2.0551	2.0642
51.2333	0.1828	0.0091	2.0564	2.0655
51.2667	0.1795	0	2.0551	2.0551
51.3	0.1805	0.0091	2.0525	2.0616
51.3333	0.1825	0.0223	2.0564	2.0787
51.3667	0.1811	0.0354	2.0577	2.0931
51.4	0.1838	0	2.0551	2.0551
51.4333	0.1831	0.0091	2.059	2.0681
51.4667	0.1838	0	2.063	2.063
51.5	0.1825	0.0091	2.0617	2.0708
51.5333	0.1835	0.0223	2.0525	2.0747
51.5667	0.1825	0.0091	2.0577	2.0668

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
51.6	0.1808	0	2.0564	2.0564
51.6333	0.1798	0.0091	2.0577	2.0668
51.6667	0.1795	0.0091	2.0564	2.0655
51.7	0.1815	0.0091	2.0498	2.0589
51.7333	0.1798	0.0091	2.0538	2.0629
51.7667	0.1825	0	2.0512	2.0512
51.8	0.1811	0	2.0617	2.0617
51.8333	0.1811	0.0091	2.0551	2.0642
51.8667	0.1828	0.0223	2.0564	2.0787
51.9	0.1811	0	2.0604	2.0604
51.9333	0.1815	0	2.063	2.063
51.9667	0.1838	0.0091	2.0617	2.0708
52	0.1805	0.0223	2.0643	2.0866
52.0333	0.1841	0.0223	2.0577	2.08
52.0667	0.1821	0	2.063	2.063
52.1	0.1821	0	2.0656	2.0656
52.1333	0.1811	0	2.0564	2.0564
52.1667	0.1818	0.0091	2.059	2.0681
52.2	0.1825	0.0091	2.0577	2.0668
52.2333	0.1811	0.0091	2.0656	2.0747
52.2667	0.1838	0	2.0643	2.0643
52.3	0.1821	0.0091	2.063	2.0721
52.3333	0.1828	0.0223	2.0682	2.0905
52.3667	0.1818	0.0091	2.0656	2.0747
52.4	0.1828	0.0091	2.063	2.0721
52.4333	0.1828	0.0091	2.0656	2.0747
52.4667	0.1811	0.0223	2.063	2.0852
52.5	0.1831	0.0223	2.0551	2.0774
52.5333	0.1838	0	2.063	2.063
52.5667	0.1854	0	2.0643	2.0643
52.6	0.1815	0.0091	2.0617	2.0708
52.6333	0.1821	0.0091	2.0617	2.0708
52.6667	0.1821	0.0091	2.0617	2.0708
52.7	0.1841	0.0091	2.063	2.0721
52.7333	0.1818	0.0223	2.0604	2.0826
52.7667	0.1828	0	2.063	2.063
52.8	0.1831	0.0091	2.0643	2.0734
52.8333	0.1841	0.0091	2.0656	2.0747
52.8667	0.1818	0.0091	2.0643	2.0734
52.9	0.1828	0.0091	2.0643	2.0734
52.9333	0.1841	0.0091	2.0564	2.0655
52.9667	0.1818	0	2.063	2.063
53	0.1838	0.0091	2.0656	2.0747

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
53.0333	0.1851	0.0223	2.0643	2.0866
53.0667	0.1811	0.0091	2.0643	2.0734
53.1	0.1854	0.0091	2.0643	2.0734
53.1333	0.1854	0.0091	2.063	2.0721
53.1667	0.1835	0	2.0604	2.0604
53.2	0.1844	0	2.0604	2.0604
53.2333	0.1848	0	2.0735	2.0735
53.2667	0.1835	0.0091	2.0656	2.0747
53.3	0.1825	0.0091	2.0656	2.0747
53.3333	0.1841	0.0223	2.0669	2.0892
53.3667	0.1848	0.0091	2.0643	2.0734
53.4	0.1835	0	2.0669	2.0669
53.4333	0.1848	0.0091	2.0682	2.0774
53.4667	0.1858	0.0223	2.0656	2.0879
53.5	0.1805	0.0091	2.0617	2.0708
53.5333	0.1841	0	2.0696	2.0696
53.5667	0.1864	0	2.0656	2.0656
53.6	0.1851	0.0091	2.063	2.0721
53.6333	0.1864	0.0091	2.0696	2.0787
53.6667	0.1848	0.0223	2.0656	2.0879
53.7	0.1818	0.0223	2.0656	2.0879
53.7333	0.1861	0.0091	2.0643	2.0734
53.7667	0.1858	0.0091	2.0643	2.0734
53.8	0.1811	0.0091	2.0643	2.0734
53.8333	0.1848	0	2.0682	2.0682
53.8667	0.1851	0.0223	2.0669	2.0892
53.9	0.1841	0	2.0669	2.0669
53.9333	0.1844	0.0223	2.0696	2.0918
53.9667	0.1864	0.0091	2.063	2.0721
54	0.1844	0.0091	2.0735	2.0826
54.0333	0.1815	0	2.0696	2.0696
54.0667	0.1864	0	2.0682	2.0682
54.1	0.1841	0	2.0643	2.0643
54.1333	0.1864	0.0091	2.0656	2.0747
54.1667	0.1848	0	2.0682	2.0682
54.2	0.1841	0.0091	2.0696	2.0787
54.2333	0.1841	0	2.0682	2.0682
54.2667	0.1858	0	2.0709	2.0709
54.3	0.1844	0.0223	2.0643	2.0866
54.3333	0.1844	0.0091	2.0643	2.0734
54.3667	0.1871	0.0223	2.0682	2.0905
54.4	0.1861	0	2.063	2.063
54.4333	0.1861	0.0091	2.0682	2.0774

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
54.4667	0.1844	0.0091	2.0696	2.0787
54.5	0.1844	0.0223	2.0722	2.0944
54.5333	0.1841	0.0091	2.0682	2.0774
54.5667	0.1851	0.0223	2.0709	2.0931
54.6	0.1854	0.0091	2.0669	2.076
54.6333	0.1844	0.0091	2.063	2.0721
54.6667	0.1858	0	2.0669	2.0669
54.7	0.1858	0.0091	2.0604	2.0695
54.7333	0.1864	0	2.0669	2.0669
54.7667	0.1831	0	2.0604	2.0604
54.8	0.1858	0.0091	2.0656	2.0747
54.8333	0.1848	0.0091	2.0682	2.0774
54.8667	0.1867	0.0223	2.0722	2.0944
54.9	0.1848	0	2.063	2.063
54.9333	0.1841	0	2.0643	2.0643
54.9667	0.1821	0	2.0617	2.0617
55	0.1844	0	2.0682	2.0682
55.0333	0.1851	0.0223	2.0604	2.0826
55.0667	0.1858	0	2.0643	2.0643
55.1	0.1844	0.0223	2.0682	2.0905
55.1333	0.1818	0.0091	2.0643	2.0734
55.1667	0.1831	0.0091	2.063	2.0721
55.2	0.1821	0	2.0669	2.0669
55.2333	0.1844	0.0223	2.0669	2.0892
55.2667	0.1848	0.0091	2.063	2.0721
55.3	0.1841	0	2.0669	2.0669
55.3333	0.1841	0	2.0669	2.0669
55.3667	0.1815	0	2.0669	2.0669
55.4	0.1818	0	2.0656	2.0656
55.4333	0.1838	0.0091	2.0656	2.0747
55.4667	0.1844	0.0091	2.0656	2.0747
55.5	0.1825	0.0091	2.0669	2.076
55.5333	0.1825	0.0091	2.0669	2.076
55.5667	0.1835	0.0091	2.063	2.0721
55.6	0.1828	0	2.0604	2.0604
55.6333	0.1805	0.0223	2.0656	2.0879
55.6667	0.1815	0.0091	2.0617	2.0708
55.7	0.1802	0.0091	2.0643	2.0734
55.7333	0.1854	0.0091	2.0643	2.0734
55.7667	0.1821	0.0091	2.0577	2.0668
55.8	0.1835	0.0091	2.063	2.0721
55.8333	0.1815	0	2.0643	2.0643
55.8667	0.1818	0.0091	2.059	2.0681

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
55.9	0.1811	0.0091	2.0577	2.0668
55.9333	0.1851	0	2.0669	2.0669
55.9667	0.1818	0.0091	2.063	2.0721
56	0.1838	0.0223	2.0564	2.0787
56.0333	0.1835	0.0091	2.0604	2.0695
56.0667	0.1835	0	2.0656	2.0656
56.1	0.1815	0.0091	2.063	2.0721
56.1333	0.1838	0.0091	2.0643	2.0734
56.1667	0.1802	0	2.0538	2.0538
56.2	0.1818	0.0091	2.0564	2.0655
56.2333	0.1851	0	2.0577	2.0577
56.2667	0.1844	0.0091	2.0538	2.0629
56.3	0.1841	0.0223	2.0525	2.0747
56.3333	0.1818	0.0091	2.0617	2.0708
56.3667	0.1821	0.0091	2.0564	2.0655
56.4	0.1818	0	2.0551	2.0551
56.4333	0.1831	0.0091	2.0538	2.0629
56.4667	0.1848	0	2.0551	2.0551
56.5	0.1825	0.0091	2.0551	2.0642
56.5333	0.1802	0	2.0525	2.0525
56.5667	0.1805	0	2.0551	2.0551
56.6	0.1838	0.0091	2.0485	2.0576
56.6333	0.1798	0	2.0564	2.0564
56.6667	0.1795	0	2.0538	2.0538
56.7	0.1818	0.0223	2.0551	2.0774
56.7333	0.1825	0	2.0538	2.0538
56.7667	0.1805	0	2.0485	2.0485
56.8	0.1825	0.0091	2.0472	2.0563
56.8333	0.1821	0.0091	2.0538	2.0629
56.8667	0.1798	0.0091	2.0485	2.0576
56.9	0.1844	0.0223	2.0512	2.0734
56.9333	0.1811	0	2.0525	2.0525
56.9667	0.1825	0	2.0564	2.0564
57	0.1825	0	2.0498	2.0498
57.0333	0.1798	0.0223	2.0564	2.0787
57.0667	0.1805	0.0091	2.0498	2.0589
57.1	0.1831	0.0091	2.0459	2.055
57.1333	0.1798	0	2.0498	2.0498
57.1667	0.1785	0.0223	2.0551	2.0774
57.2	0.1825	0	2.0459	2.0459
57.2333	0.1831	0	2.0498	2.0498
57.2667	0.1828	0.0091	2.0512	2.0603
57.3	0.1818	0.0091	2.0459	2.055

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
57.3333	0.1798	0	2.0512	2.0512
57.3667	0.1818	0	2.0512	2.0512
57.4	0.1798	0.0223	2.0512	2.0734
57.4333	0.1811	0.0091	2.0538	2.0629
57.4667	0.1795	0.0091	2.0512	2.0603
57.5	0.1802	0.0091	2.0485	2.0576
57.5333	0.1811	0.0091	2.0472	2.0563
57.5667	0.1815	0.0091	2.0564	2.0655
57.6	0.1775	0	2.0525	2.0525
57.6333	0.1828	0	2.0498	2.0498
57.6667	0.1815	0	2.0525	2.0525
57.7	0.1815	0.0091	2.0538	2.0629
57.7333	0.1815	0.0091	2.0472	2.0563
57.7667	0.1798	0	2.0485	2.0485
57.8	0.1802	0.0091	2.0498	2.0589
57.8333	0.1788	0	2.0498	2.0498
57.8667	0.1798	0	2.0512	2.0512
57.9	0.1802	0	2.0485	2.0485
57.9333	0.1785	0	2.0485	2.0485
57.9667	0.1815	0.0091	2.0485	2.0576
58	0.1798	0	2.0446	2.0446
58.0333	0.1825	0.0091	2.0472	2.0563
58.0667	0.1795	0.0091	2.0485	2.0576
58.1	0.1788	0.0091	2.0498	2.0589
58.1333	0.1788	0.0091	2.0446	2.0537
58.1667	0.1788	0.0091	2.042	2.0511
58.2	0.1772	0.0223	2.0459	2.0681
58.2333	0.1811	0	2.0446	2.0446
58.2667	0.1811	0.0091	2.0433	2.0524
58.3	0.1795	0.0091	2.0433	2.0524
58.3333	0.1805	0	2.0433	2.0433
58.3667	0.1775	0.0223	2.0446	2.0668
58.4	0.1782	0.0091	2.0472	2.0563
58.4333	0.1795	0	2.0393	2.0393
58.4667	0.1805	0.0223	2.042	2.0642
58.5	0.1795	0.0091	2.0446	2.0537
58.5333	0.1811	0	2.0459	2.0459
58.5667	0.1805	0.0091	2.0472	2.0563
58.6	0.1805	0.0223	2.0472	2.0695
58.6333	0.1782	0.0091	2.0446	2.0537
58.6667	0.1762	0	2.042	2.042
58.7	0.1825	0.0091	2.042	2.0511
58.7333	0.1798	0.0223	2.0472	2.0695



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
58.7667	0.1795	0	2.0472	2.0472
58.8	0.1779	0.0091	2.0512	2.0603
58.8333	0.1782	0.0091	2.0525	2.0616
58.8667	0.1798	0.0223	2.0459	2.0681
58.9	0.1805	0.0091	2.0538	2.0629
58.9333	0.1788	0.0091	2.0538	2.0629
58.9667	0.1798	0.0223	2.0498	2.0721
59	0.1795	0.0091	2.0459	2.055
59.0333	0.1792	0	2.0472	2.0472
59.0667	0.1765	0.0091	2.0498	2.0589
59.1	0.1785	0	2.0538	2.0538
59.1333	0.1811	0.0091	2.0472	2.0563
59.1667	0.1782	0.0091	2.0472	2.0563
59.2	0.1792	0.0223	2.0485	2.0708
59.2333	0.1785	0	2.0485	2.0485
59.2667	0.1772	0.0091	2.0446	2.0537
59.3	0.1795	0	2.0498	2.0498
59.3333	0.1775	0.0091	2.0446	2.0537
59.3667	0.1792	0	2.0498	2.0498
59.4	0.1792	0	2.0485	2.0485
59.4333	0.1811	0	2.0498	2.0498
59.4667	0.1792	0.0223	2.0406	2.0629
59.5	0.1769	0.0091	2.042	2.0511
59.5333	0.1769	0.0091	2.0498	2.0589
59.5667	0.1772	0.0091	2.0446	2.0537
59.6	0.1798	0.0223	2.0472	2.0695
59.6333	0.1795	0	2.0538	2.0538
59.6667	0.1788	0.0091	2.0498	2.0589
59.7	0.1792	0.0091	2.0406	2.0497
59.7333	0.1795	0.0091	2.0498	2.0589
59.7667	0.1759	0.0091	2.0446	2.0537
59.8	0.1792	0	2.0498	2.0498
59.8333	0.1815	0.0223	2.042	2.0642
59.8667	0.1788	0	2.042	2.042
59.9	0.1772	0.0091	2.042	2.0511
59.9333	0.1775	0.0091	2.0459	2.055
59.9667	0.1785	0.0091	2.0472	2.0563
60	0.1825	0.0223	2.0485	2.0708
60.0333	0.1795	0	2.0472	2.0472
60.0667	0.1765	0	2.0433	2.0433
60.1	0.1825	0	2.0459	2.0459
60.1333	0.1798	0.0091	2.042	2.0511
60.1667	0.1779	0.0223	2.042	2.0642

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
60.2	0.1759	0.0091	2.0459	2.055
60.2333	0.1795	0.0091	2.0446	2.0537
60.2667	0.1795	0	2.042	2.042
60.3	0.1792	0.0091	2.0433	2.0524
60.3333	0.1785	0.0091	2.0433	2.0524
60.3667	0.1772	0.0091	2.0433	2.0524
60.4	0.1762	0	2.0472	2.0472
60.4333	0.1779	0.0091	2.0393	2.0484
60.4667	0.1759	0.0091	2.042	2.0511
60.5	0.1759	0.0091	2.038	2.0471
60.5333	0.1792	0.0091	2.042	2.0511
60.5667	0.1759	0.0223	2.0406	2.0629
60.6	0.1739	0.0091	2.0406	2.0497
60.6333	0.1769	0	2.0459	2.0459
60.6667	0.1779	0.0223	2.0459	2.0681
60.7	0.1775	0.0223	2.0459	2.0681
60.7333	0.1782	0	2.0472	2.0472
60.7667	0.1746	0	2.0459	2.0459
60.8	0.1779	0	2.0485	2.0485
60.8333	0.1749	0.0354	2.0459	2.0813
60.8667	0.1759	0.0091	2.0446	2.0537
60.9	0.1762	0.0091	2.042	2.0511
60.9333	0.1772	0	2.0472	2.0472
60.9667	0.1785	0.0223	2.0393	2.0616
61	0.1762	0.0091	2.0433	2.0524
61.0333	0.1746	0.0091	2.0485	2.0576
61.0667	0.1779	0.0091	2.0498	2.0589
61.1	0.1765	0.0091	2.0433	2.0524
61.1333	0.1775	0.0223	2.0472	2.0695
61.1667	0.1769	0	2.0485	2.0485
61.2	0.1769	0.0091	2.0472	2.0563
61.2333	0.1779	0.0091	2.0446	2.0537
61.2667	0.1742	0	2.0459	2.0459
61.3	0.1765	0.0223	2.042	2.0642
61.3333	0.1742	0.0091	2.0367	2.0458
61.3667	0.1775	0.0091	2.0433	2.0524
61.4	0.1769	0.0091	2.0393	2.0484
61.4333	0.1785	0	2.0472	2.0472
61.4667	0.1746	0.0091	2.0446	2.0537
61.5	0.1759	0.0091	2.042	2.0511
61.5333	0.1765	0.0091	2.042	2.0511
61.5667	0.1732	0.0091	2.0367	2.0458
61.6	0.1762	0	2.0446	2.0446

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
61.6333	0.1746	0	2.042	2.042
61.6667	0.1759	0.0091	2.042	2.0511
61.7	0.1762	0.0223	2.0406	2.0629
61.7333	0.1759	0.0091	2.038	2.0471
61.7667	0.1746	0.0091	2.0459	2.055
61.8	0.1752	0.0091	2.042	2.0511
61.8333	0.1762	0.0223	2.042	2.0642
61.8667	0.1742	0.0091	2.0446	2.0537
61.9	0.1752	0.0091	2.042	2.0511
61.9333	0.1759	0	2.0459	2.0459
61.9667	0.1756	0.0091	2.0459	2.055
62	0.1775	0.0354	2.0367	2.0721
62.0333	0.1759	0	2.0446	2.0446
62.0667	0.1765	0	2.0433	2.0433
62.1	0.1749	0.0091	2.042	2.0511
62.1333	0.1739	0.0091	2.042	2.0511
62.1667	0.1759	0.0223	2.0393	2.0616
62.2	0.1765	0	2.0472	2.0472
62.2333	0.1759	0	2.042	2.042
62.2667	0.1762	0	2.0433	2.0433
62.3	0.1742	0.0091	2.038	2.0471
62.3333	0.1749	0.0223	2.0446	2.0668
62.3667	0.1779	0.0091	2.0406	2.0497
62.4	0.1759	0.0091	2.0433	2.0524
62.4333	0.1782	0	2.0406	2.0406
62.4667	0.1746	0.0091	2.0367	2.0458
62.5	0.1762	0.0223	2.0393	2.0616
62.5333	0.1742	0.0091	2.042	2.0511
62.5667	0.1752	0.0223	2.042	2.0642
62.6	0.1765	0.0091	2.0393	2.0484
62.6333	0.1732	0.0091	2.0459	2.055
62.6667	0.1759	0.0091	2.0459	2.055
62.7	0.1736	0.0091	2.042	2.0511
62.7333	0.1769	0	2.038	2.038
62.7667	0.1769	0.0091	2.0354	2.0445
62.8	0.1762	0.0091	2.0354	2.0445
62.8333	0.1769	0	2.038	2.038
62.8667	0.1759	0.0091	2.0433	2.0524
62.9	0.1775	0.0091	2.042	2.0511
62.9333	0.1736	0	2.0406	2.0406
62.9667	0.1732	0.0354	2.038	2.0734
63	0.1752	0.0091	2.0406	2.0497
63.0333	0.1746	0.0091	2.042	2.0511

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
63.0667	0.1772	0	2.0393	2.0393
63.1	0.1742	0.0091	2.0446	2.0537
63.1333	0.1765	0	2.0406	2.0406
63.1667	0.1752	0	2.0367	2.0367
63.2	0.1752	0	2.0433	2.0433
63.2333	0.1752	0.0091	2.042	2.0511
63.2667	0.1769	0	2.042	2.042
63.3	0.1759	0.0091	2.0393	2.0484
63.3333	0.1746	0	2.0367	2.0367
63.3667	0.1762	0.0091	2.038	2.0471
63.4	0.1762	0.0223	2.0393	2.0616
63.4333	0.1752	0.0091	2.038	2.0471
63.4667	0.1759	0.0354	2.0406	2.076
63.5	0.1765	0.0091	2.042	2.0511
63.5333	0.1762	0	2.0354	2.0354
63.5667	0.1762	0	2.038	2.038
63.6	0.1752	0	2.0354	2.0354
63.6333	0.1769	0.0223	2.0406	2.0629
63.6667	0.1746	0.0091	2.0314	2.0405
63.7	0.1762	0.0091	2.038	2.0471
63.7333	0.1756	0.0091	2.0367	2.0458
63.7667	0.1759	0	2.0393	2.0393
63.8	0.1779	0.0091	2.042	2.0511
63.8333	0.1752	0.0091	2.0406	2.0497
63.8667	0.1772	0.0223	2.0406	2.0629
63.9	0.1752	0	2.042	2.042
63.9333	0.1736	0.0223	2.0393	2.0616
63.9667	0.1788	0	2.0433	2.0433
64	0.1772	0	2.038	2.038
64.0333	0.1759	0.0223	2.0341	2.0563
64.0667	0.1749	0.0091	2.0367	2.0458
64.1	0.1746	0	2.0433	2.0433
64.1333	0.1759	0	2.0433	2.0433
64.1667	0.1752	0.0091	2.0327	2.0418
64.2	0.1769	0	2.0354	2.0354
64.2333	0.1756	0	2.0367	2.0367
64.2667	0.1749	0.0091	2.0393	2.0484
64.3	0.1749	0.0091	2.0354	2.0445
64.3333	0.1759	0	2.0393	2.0393
64.3667	0.1759	0.0091	2.0354	2.0445
64.4	0.1756	0	2.038	2.038
64.4333	0.1765	0.0091	2.0341	2.0432
64.4667	0.1762	0	2.0314	2.0314

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
64.5	0.1752	0.0091	2.0446	2.0537
64.5333	0.1742	0	2.0406	2.0406
64.5667	0.1719	0.0091	2.038	2.0471
64.6	0.1746	0	2.042	2.042
64.6333	0.1775	0	2.038	2.038
64.6667	0.1752	0.0091	2.042	2.0511
64.7	0.1719	0.0223	2.038	2.0603
64.7333	0.1772	0.0091	2.0354	2.0445
64.7667	0.1726	0.0091	2.042	2.0511
64.8	0.1742	0.0223	2.0433	2.0655
64.8333	0.1742	0.0091	2.0433	2.0524
64.8667	0.1726	0	2.0327	2.0327
64.9	0.1756	0.0091	2.0393	2.0484
64.9333	0.1732	0	2.0341	2.0341
64.9667	0.1749	0.0091	2.0354	2.0445
65	0.1769	0.0091	2.0341	2.0432
65.0333	0.1762	0.0223	2.042	2.0642
65.0667	0.1756	0.0223	2.0341	2.0563
65.1	0.1746	0	2.0367	2.0367
65.1333	0.1749	0.0091	2.0288	2.0379
65.1667	0.1762	0	2.038	2.038
65.2	0.1749	0	2.0341	2.0341
65.2333	0.1769	0.0091	2.0367	2.0458
65.2667	0.1756	0.0091	2.0341	2.0432
65.3	0.1746	0	2.0341	2.0341
65.3333	0.1742	0.0223	2.0341	2.0563
65.3667	0.1759	0.0091	2.0275	2.0366
65.4	0.1742	0.0091	2.0367	2.0458
65.4333	0.1736	0	2.0327	2.0327
65.4667	0.1772	0.0091	2.0314	2.0405
65.5	0.1732	0	2.0288	2.0288
65.5333	0.1749	0.0091	2.0327	2.0418
65.5667	0.1742	0.0091	2.0288	2.0379
65.6	0.1739	0	2.0301	2.0301
65.6333	0.1756	0.0223	2.0301	2.0524
65.6667	0.1723	0.0091	2.0262	2.0353
65.7	0.1729	0	2.0262	2.0262
65.7333	0.1716	0.0091	2.0288	2.0379
65.7667	0.1759	0	2.0327	2.0327
65.8	0.1759	0.0223	2.0275	2.0497
65.8333	0.1762	0.0091	2.0235	2.0326
65.8667	0.1746	0.0091	2.0249	2.034
65.9	0.1739	0.0091	2.0235	2.0326

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
65.9333	0.1746	0.0091	2.0314	2.0405
65.9667	0.1756	0.0091	2.0262	2.0353
66	0.1719	0	2.0288	2.0288
66.0333	0.1719	0	2.0235	2.0235
66.0667	0.1752	0.0091	2.0222	2.0313
66.1	0.1736	0.0091	2.0249	2.034
66.1333	0.1736	0.0091	2.0314	2.0405
66.1667	0.1765	0.0091	2.0314	2.0405
66.2	0.1749	0	2.0249	2.0249
66.2333	0.1752	0.0091	2.0275	2.0366
66.2667	0.1723	0.0223	2.0262	2.0484
66.3	0.1756	0.0223	2.0288	2.0511
66.3333	0.1746	0.0091	2.0262	2.0353
66.3667	0.1719	0.0223	2.0314	2.0537
66.4	0.1739	0.0091	2.0327	2.0418
66.4333	0.1746	0	2.0249	2.0249
66.4667	0.1746	0.0091	2.0327	2.0418
66.5	0.1732	0.0091	2.0314	2.0405
66.5333	0.1723	0.0091	2.0262	2.0353
66.5667	0.1749	0.0091	2.0314	2.0405
66.6	0.1749	0	2.0249	2.0249
66.6333	0.1752	0.0091	2.0262	2.0353
66.6667	0.1736	0	2.0222	2.0222
66.7	0.1756	0.0091	2.0262	2.0353
66.7333	0.1739	0.0091	2.0209	2.03
66.7667	0.1723	0.0223	2.0183	2.0405
66.8	0.1739	0	2.0249	2.0249
66.8333	0.1723	0.0091	2.0249	2.034
66.8667	0.1732	0.0091	2.0222	2.0313
66.9	0.1779	0.0091	2.0262	2.0353
66.9333	0.1736	0.0091	2.0275	2.0366
66.9667	0.1775	0.0091	2.0209	2.03
67	0.1772	0.0091	2.0249	2.034
67.0333	0.1726	0	2.0249	2.0249
67.0667	0.1736	0.0091	2.0301	2.0392
67.1	0.1779	0	2.0314	2.0314
67.1333	0.1762	0.0091	2.0314	2.0405
67.1667	0.1742	0.0091	2.0288	2.0379
67.2	0.1772	0	2.0288	2.0288
67.2333	0.1752	0	2.0288	2.0288
67.2667	0.1719	0	2.0301	2.0301
67.3	0.1752	0	2.0288	2.0288
67.3333	0.1762	0.0223	2.0275	2.0497

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
67.3667	0.1772	0.0223	2.0288	2.0511
67.4	0.1752	0.0223	2.0275	2.0497
67.4333	0.1746	0	2.0222	2.0222
67.4667	0.1779	0.0091	2.0275	2.0366
67.5	0.1759	0.0091	2.0275	2.0366
67.5333	0.1775	0	2.0275	2.0275
67.5667	0.1759	0	2.0262	2.0262
67.6	0.1775	0	2.0249	2.0249
67.6333	0.1736	0	2.0249	2.0249
67.6667	0.1765	0.0091	2.0314	2.0405
67.7	0.1769	0	2.0288	2.0288
67.7333	0.1772	0	2.0249	2.0249
67.7667	0.1739	0.0091	2.0301	2.0392
67.8	0.1772	0	2.0235	2.0235
67.8333	0.1739	0.0223	2.0249	2.0471
67.8667	0.1762	0.0223	2.0301	2.0524
67.9	0.1772	0.0223	2.0249	2.0471
67.9333	0.1779	0.0091	2.0275	2.0366
67.9667	0.1759	0.0223	2.0262	2.0484
68	0.1759	0.0223	2.0275	2.0497
68.0333	0.1762	0	2.0262	2.0262
68.0667	0.1782	0.0223	2.0314	2.0537
68.1	0.1749	0.0223	2.0262	2.0484
68.1333	0.1756	0.0091	2.0275	2.0366
68.1667	0.1762	0.0223	2.0275	2.0497
68.2	0.1775	0.0091	2.0301	2.0392
68.2333	0.1756	0	2.0262	2.0262
68.2667	0.1749	0	2.0262	2.0262
68.3	0.1746	0.0091	2.0275	2.0366
68.3333	0.1769	0	2.0222	2.0222
68.3667	0.1765	0.0091	2.0288	2.0379
68.4	0.1762	0.0223	2.0301	2.0524
68.4333	0.1772	0	2.0262	2.0262
68.4667	0.1772	0.0091	2.0314	2.0405
68.5	0.1779	0	2.0301	2.0301
68.5333	0.1729	0.0091	2.0314	2.0405
68.5667	0.1742	0	2.0314	2.0314
68.6	0.1742	0.0091	2.0301	2.0392
68.6333	0.1749	0.0091	2.0367	2.0458
68.6667	0.1769	0	2.0301	2.0301
68.7	0.1756	0.0091	2.0327	2.0418
68.7333	0.1759	0.0091	2.0314	2.0405
68.7667	0.1779	0.0091	2.0327	2.0418

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
68.8	0.1772	0.0223	2.0275	2.0497
68.8333	0.1769	0.0091	2.0288	2.0379
68.8667	0.1769	0	2.0275	2.0275
68.9	0.1742	0.0091	2.0301	2.0392
68.9333	0.1749	0	2.0288	2.0288
68.9667	0.1742	0.0091	2.0275	2.0366
69	0.1736	0	2.0235	2.0235
69.0333	0.1772	0.0091	2.0288	2.0379
69.0667	0.1769	0	2.0275	2.0275
69.1	0.1739	0	2.0275	2.0275
69.1333	0.1729	0	2.0183	2.0183
69.1667	0.1742	0.0091	2.0262	2.0353
69.2	0.1772	0.0091	2.0235	2.0326
69.2333	0.1765	0.0091	2.0367	2.0458
69.2667	0.1772	0	2.0275	2.0275
69.3	0.1752	0	2.0249	2.0249
69.3333	0.1782	0	2.0275	2.0275
69.3667	0.1782	0.0223	2.0341	2.0563
69.4	0.1782	0.0223	2.0209	2.0432
69.4333	0.1736	0.0091	2.0314	2.0405
69.4667	0.1769	0.0091	2.0301	2.0392
69.5	0.1769	0.0091	2.0275	2.0366
69.5333	0.1756	0.0091	2.0209	2.03
69.5667	0.1762	0	2.0235	2.0235
69.6	0.1769	0.0091	2.0249	2.034
69.6333	0.1752	0.0091	2.0301	2.0392
69.6667	0.1775	0	2.0275	2.0275
69.7	0.1779	0.0091	2.0275	2.0366
69.7333	0.1762	0.0091	2.0249	2.034
69.7667	0.1762	0.0223	2.0235	2.0458
69.8	0.1772	0.0223	2.0262	2.0484
69.8333	0.1779	0.0091	2.0275	2.0366
69.8667	0.1746	0.0091	2.0262	2.0353
69.9	0.1752	0.0091	2.0275	2.0366
69.9333	0.1769	0.0091	2.0341	2.0432
69.9667	0.1772	0.0091	2.0262	2.0353
70	0.1739	0.0091	2.0262	2.0353
70.0333	0.1749	0.0091	2.0288	2.0379
70.0667	0.1769	0	2.0262	2.0262
70.1	0.1772	0.0223	2.0249	2.0471
70.1333	0.1772	0.0091	2.0275	2.0366
70.1667	0.1746	0	2.0288	2.0288
70.2	0.1772	0.0091	2.0314	2.0405



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
70.2333	0.1765	0	2.0262	2.0262
70.2667	0.1746	0.0091	2.0288	2.0379
70.3	0.1746	0	2.0209	2.0209
70.3333	0.1756	0.0091	2.0262	2.0353
70.3667	0.1746	0.0091	2.0249	2.034
70.4	0.1729	0.0091	2.0314	2.0405
70.4333	0.1759	0	2.0262	2.0262
70.4667	0.1759	0.0223	2.0222	2.0445
70.5	0.1782	0.0091	2.0288	2.0379
70.5333	0.1746	0.0223	2.0288	2.0511
70.5667	0.1775	0.0091	2.0301	2.0392
70.6	0.1746	0.0091	2.0275	2.0366
70.6333	0.1772	0.0091	2.0275	2.0366
70.6667	0.1775	0.0091	2.0314	2.0405
70.7	0.1762	0.0091	2.0288	2.0379
70.7333	0.1749	0	2.0288	2.0288
70.7667	0.1792	0.0091	2.0275	2.0366
70.8	0.1788	0.0354	2.0288	2.0642
70.8333	0.1782	0.0091	2.0314	2.0405
70.8667	0.1749	0.0091	2.0314	2.0405
70.9	0.1765	0.0091	2.0341	2.0432
70.9333	0.1779	0.0091	2.0262	2.0353
70.9667	0.1775	0	2.0314	2.0314
71	0.1775	0.0091	2.0327	2.0418
71.0333	0.1802	0.0091	2.038	2.0471
71.0667	0.1769	0.0091	2.0367	2.0458
71.1	0.1779	0.0223	2.0354	2.0576
71.1333	0.1785	0.0091	2.0367	2.0458
71.1667	0.1785	0.0091	2.0301	2.0392
71.2	0.1798	0	2.0327	2.0327
71.2333	0.1802	0.0091	2.0354	2.0445
71.2667	0.1805	0	2.0367	2.0367
71.3	0.1788	0	2.0314	2.0314
71.3333	0.1788	0.0091	2.0314	2.0405
71.3667	0.1765	0.0091	2.0314	2.0405
71.4	0.1775	0	2.0341	2.0341
71.4333	0.1759	0.0091	2.0327	2.0418
71.4667	0.1788	0.0223	2.0327	2.055
71.5	0.1775	0	2.0327	2.0327
71.5333	0.1811	0.0223	2.0367	2.0589
71.5667	0.1798	0	2.0327	2.0327
71.6	0.1808	0.0091	2.0314	2.0405
71.6333	0.1825	0.0091	2.0341	2.0432

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
71.6667	0.1805	0.0091	2.0275	2.0366
71.7	0.1805	0.0091	2.0327	2.0418
71.7333	0.1769	0	2.0327	2.0327
71.7667	0.1788	0	2.0341	2.0341
71.8	0.1775	0.0091	2.0367	2.0458
71.8333	0.1821	0.0091	2.0367	2.0458
71.8667	0.1798	0.0091	2.0367	2.0458
71.9	0.1798	0.0223	2.0393	2.0616
71.9333	0.1788	0	2.0341	2.0341
71.9667	0.1798	0	2.038	2.038
72	0.1805	0.0091	2.0354	2.0445
72.0333	0.1798	0	2.0406	2.0406
72.0667	0.1792	0.0354	2.0354	2.0708
72.1	0.1811	0.0091	2.0367	2.0458
72.1333	0.1808	0	2.0406	2.0406
72.1667	0.1835	0	2.038	2.038
72.2	0.1802	0.0091	2.0433	2.0524
72.2333	0.1815	0.0223	2.0472	2.0695
72.2667	0.1785	0.0091	2.0498	2.0589
72.3	0.1825	0.0091	2.0472	2.0563
72.3333	0.1795	0	2.0393	2.0393
72.3667	0.1828	0.0091	2.038	2.0471
72.4	0.1798	0.0091	2.0498	2.0589
72.4333	0.1815	0.0091	2.0433	2.0524
72.4667	0.1808	0.0091	2.042	2.0511
72.5	0.1821	0.0223	2.042	2.0642
72.5333	0.1792	0	2.0433	2.0433
72.5667	0.1805	0.0091	2.0446	2.0537
72.6	0.1848	0	2.0498	2.0498
72.6333	0.1848	0	2.0525	2.0525
72.6667	0.1881	0	2.0551	2.0551
72.7	0.1917	0.0091	2.0577	2.0668
72.7333	0.196	0	2.0577	2.0577
72.7667	0.2045	0.0091	2.063	2.0721
72.8	0.2039	0	2.0814	2.0814
72.8333	0.2118	0.0223	2.0945	2.1168
72.8667	0.2154	0.0091	2.0998	2.1089
72.9	0.22	0.0091	2.113	2.1221
72.9333	0.2266	0.0091	2.1274	2.1365
72.9667	0.2318	0	2.1366	2.1366
73	0.2332	0.0091	2.1498	2.1589
73.0333	0.2407	0	2.1669	2.1669
73.0667	0.243	0.0223	2.1761	2.1983

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
73.1	0.246	0.0091	2.1932	2.2023
73.1333	0.2526	0.0091	2.209	2.2181
73.1667	0.2542	0	2.2234	2.2234
73.2	0.2582	0	2.2379	2.2379
73.2333	0.2598	0.0091	2.2471	2.2562
73.2667	0.2664	0.0091	2.2616	2.2707
73.3	0.27	0.0091	2.2721	2.2812
73.3333	0.275	0.0091	2.2879	2.297
73.3667	0.2776	0.0091	2.2971	2.3062
73.4	0.2773	0.0223	2.3049	2.3272
73.4333	0.2865	0	2.326	2.326
73.4667	0.2917	0.0091	2.3286	2.3377
73.5	0.2924	0.0223	2.3431	2.3653
73.5333	0.2931	0	2.3497	2.3497
73.5667	0.3006	0.0091	2.3694	2.3785
73.6	0.3033	0	2.376	2.376
73.6333	0.3069	0	2.3904	2.3904
73.6667	0.3125	0	2.4049	2.4049
73.7	0.3168	0.0091	2.4154	2.4245
73.7333	0.3214	0	2.4351	2.4351
73.7667	0.32	0	2.4378	2.4378
73.8	0.3273	0.0091	2.4575	2.4666
73.8333	0.3322	0.0354	2.4575	2.4929
73.8667	0.3349	0	2.468	2.468
73.9	0.3345	0.0091	2.4759	2.485
73.9333	0.3375	0.0223	2.4904	2.5126
73.9667	0.3428	0	2.4996	2.4996
74	0.3497	0.0223	2.5114	2.5336
74.0333	0.3513	0.0091	2.5219	2.531
74.0667	0.3556	0.0223	2.5351	2.5573
74.1	0.3599	0	2.5482	2.5482
74.1333	0.3572	0	2.5495	2.5495
74.1667	0.3615	0.0091	2.564	2.5731
74.2	0.3674	0.0091	2.5706	2.5797
74.2333	0.3681	0	2.5785	2.5785
74.2667	0.3707	0.0223	2.5916	2.6139
74.3	0.3711	0.0091	2.5969	2.606
74.3333	0.3734	0	2.6048	2.6048
74.3667	0.372	0.0223	2.61	2.6323
74.4	0.3757	0.0091	2.6179	2.627
74.4333	0.374	0.0223	2.6232	2.6454
74.4667	0.3763	0.0091	2.6284	2.6375
74.5	0.3734	0	2.6311	2.6311

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
74.5333	0.3776	0.0091	2.6376	2.6467
74.5667	0.3822	0.0223	2.6468	2.6691
74.6	0.3819	0	2.6468	2.6468
74.6333	0.3803	0	2.6508	2.6508
74.6667	0.3803	0.0091	2.6574	2.6665
74.7	0.3806	0	2.6652	2.6652
74.7333	0.3842	0.0091	2.6718	2.6809
74.7667	0.3816	0	2.6705	2.6705
74.8	0.3806	0.0223	2.6731	2.6954
74.8333	0.3829	0	2.6771	2.6771
74.8667	0.3796	0	2.6823	2.6823
74.9	0.3822	0.0223	2.6784	2.7007
74.9333	0.3803	0.0091	2.681	2.6901
74.9667	0.3763	0	2.6915	2.6915
75	0.3806	0.0091	2.6929	2.702
75.0333	0.3786	0.0091	2.6942	2.7033
75.0667	0.3763	0.0091	2.6942	2.7033
75.1	0.3737	0	2.6968	2.6968
75.1333	0.375	0.0091	2.6942	2.7033
75.1667	0.3714	0.0223	2.685	2.7072
75.2	0.372	0.0091	2.7034	2.7125
75.2333	0.3727	0	2.7073	2.7073
75.2667	0.3681	0.0223	2.7073	2.7296
75.3	0.3694	0.0091	2.7047	2.7138
75.3333	0.3681	0.0091	2.6994	2.7085
75.3667	0.3665	0.0091	2.7086	2.7177
75.4	0.3684	0.0091	2.71	2.7191
75.4333	0.3655	0.0091	2.7139	2.723
75.4667	0.3684	0.0223	2.71	2.7322
75.5	0.3645	0.0091	2.7113	2.7204
75.5333	0.3665	0.0223	2.71	2.7322
75.5667	0.3628	0.0091	2.71	2.7191
75.6	0.3645	0.0091	2.7086	2.7177
75.6333	0.3622	0.0091	2.7139	2.723
75.6667	0.3595	0.0223	2.71	2.7322
75.7	0.3599	0.0091	2.706	2.7151
75.7333	0.3622	0.0091	2.7073	2.7164
75.7667	0.3589	0	2.7073	2.7073
75.8	0.3592	0.0091	2.7113	2.7204
75.8333	0.3592	0.0091	2.7139	2.723
75.8667	0.3553	0.0223	2.706	2.7283
75.9	0.3579	0.0223	2.7139	2.7362
75.9333	0.3572	0	2.7086	2.7086

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
75.9667	0.3572	0.0223	2.7086	2.7309
76	0.3556	0.0091	2.7126	2.7217
76.0333	0.3543	0.0091	2.7086	2.7177
76.0667	0.3526	0.0091	2.7205	2.7296
76.1	0.3523	0.0091	2.71	2.7191
76.1333	0.353	0.0091	2.7152	2.7243
76.1667	0.3559	0.0091	2.7152	2.7243
76.2	0.351	0.0223	2.7152	2.7375
76.2333	0.353	0	2.7139	2.7139
76.2667	0.3539	0.0091	2.7165	2.7256
76.3	0.3516	0.0091	2.7192	2.7283
76.3333	0.3513	0	2.71	2.71
76.3667	0.3507	0	2.7152	2.7152
76.4	0.3503	0	2.7152	2.7152
76.4333	0.351	0.0091	2.7205	2.7296
76.4667	0.352	0.0223	2.7192	2.7414
76.5	0.3487	0.0091	2.7165	2.7256
76.5333	0.3474	0.0091	2.7139	2.723
76.5667	0.35	0.0091	2.7244	2.7335
76.6	0.3507	0	2.7218	2.7218
76.6333	0.3526	0.0091	2.7113	2.7204
76.6667	0.3507	0.0091	2.7192	2.7283
76.7	0.3497	0	2.7178	2.7178
76.7333	0.3477	0.0091	2.7139	2.723
76.7667	0.3467	0.0091	2.7165	2.7256
76.8	0.35	0.0354	2.7205	2.7559
76.8333	0.348	0	2.7113	2.7113
76.8667	0.3483	0	2.7152	2.7152
76.9	0.349	0	2.7165	2.7165
76.9333	0.347	0.0091	2.7139	2.723
76.9667	0.3497	0	2.7178	2.7178
77	0.346	0.0223	2.7192	2.7414
77.0333	0.346	0.0091	2.7139	2.723
77.0667	0.3483	0.0091	2.7152	2.7243
77.1	0.3483	0.0223	2.7113	2.7335
77.1333	0.349	0.0223	2.7178	2.7401
77.1667	0.348	0	2.7126	2.7126
77.2	0.3493	0.0091	2.7165	2.7256
77.2333	0.3503	0.0091	2.7165	2.7256
77.2667	0.347	0.0091	2.7126	2.7217
77.3	0.3477	0.0091	2.7073	2.7164
77.3333	0.349	0	2.7165	2.7165
77.3667	0.347	0.0223	2.7139	2.7362

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
77.4	0.3474	0.0091	2.7165	2.7256
77.4333	0.3483	0.0091	2.7139	2.723
77.4667	0.3497	0.0091	2.7165	2.7256
77.5	0.3483	0	2.7192	2.7192
77.5333	0.3507	0.0091	2.7205	2.7296
77.5667	0.3483	0	2.7218	2.7218
77.6	0.348	0.0223	2.7218	2.744
77.6333	0.351	0.0223	2.7257	2.748
77.6667	0.346	0.0091	2.7192	2.7283
77.7	0.3497	0.0091	2.7297	2.7388
77.7333	0.349	0	2.7231	2.7231
77.7667	0.3513	0.0223	2.7257	2.748
77.8	0.35	0.0223	2.7323	2.7546
77.8333	0.353	0.0091	2.7271	2.7362
77.8667	0.3526	0	2.7257	2.7257
77.9	0.3516	0.0091	2.731	2.7401
77.9333	0.3526	0.0091	2.7284	2.7375
77.9667	0.3549	0.0223	2.7297	2.7519
78	0.3516	0	2.7363	2.7363
78.0333	0.3543	0.0091	2.7297	2.7388
78.0667	0.3516	0	2.7349	2.7349
78.1	0.3546	0	2.7376	2.7376
78.1333	0.3543	0.0091	2.7415	2.7506
78.1667	0.3556	0.0223	2.7363	2.7585
78.2	0.3559	0.0091	2.7389	2.748
78.2333	0.3549	0.0091	2.7376	2.7467
78.2667	0.3566	0.0091	2.7428	2.7519
78.3	0.3546	0.0091	2.7415	2.7506
78.3333	0.3576	0.0091	2.7376	2.7467
78.3667	0.3543	0.0091	2.7428	2.7519
78.4	0.3562	0	2.7428	2.7428
78.4333	0.3562	0.0223	2.7428	2.7651
78.4667	0.353	0.0091	2.7507	2.7598
78.5	0.3562	0.0091	2.7481	2.7572
78.5333	0.3592	0.0091	2.7441	2.7532
78.5667	0.3549	0.0091	2.7428	2.7519
78.6	0.3559	0.0091	2.7468	2.7559
78.6333	0.3572	0.0091	2.7428	2.7519
78.6667	0.3579	0.0091	2.7481	2.7572
78.7	0.3572	0.0223	2.7534	2.7756
78.7333	0.3562	0	2.7455	2.7455
78.7667	0.3582	0.0091	2.752	2.7611
78.8	0.3602	0	2.7481	2.7481

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
78.8333	0.3595	0.0223	2.7441	2.7664
78.8667	0.3576	0	2.7507	2.7507
78.9	0.3632	0.0091	2.7507	2.7598
78.9333	0.3602	0.0223	2.7494	2.7717
78.9667	0.3582	0.0223	2.7455	2.7677
79	0.3602	0.0223	2.7534	2.7756
79.0333	0.3615	0.0223	2.7494	2.7717
79.0667	0.3625	0.0091	2.7468	2.7559
79.1	0.3602	0	2.7534	2.7534
79.1333	0.3645	0.0223	2.756	2.7782
79.1667	0.3618	0	2.756	2.756
79.2	0.3628	0	2.756	2.756
79.2333	0.3618	0.0091	2.7573	2.7664
79.2667	0.3645	0.0091	2.7573	2.7664
79.3	0.3592	0.0091	2.756	2.7651
79.3333	0.3612	0.0091	2.7652	2.7743
79.3667	0.3645	0.0091	2.7665	2.7756
79.4	0.3632	0	2.7639	2.7639
79.4333	0.3632	0.0091	2.7652	2.7743
79.4667	0.3635	0	2.7678	2.7678
79.5	0.3651	0.0223	2.7665	2.7888
79.5333	0.3641	0.0091	2.7639	2.773
79.5667	0.3648	0.0091	2.7678	2.7769
79.6	0.3648	0.0091	2.7665	2.7756
79.6333	0.3668	0	2.7718	2.7718
79.6667	0.3668	0.0091	2.7678	2.7769
79.7	0.3651	0.0354	2.7665	2.8019
79.7333	0.3661	0	2.7731	2.7731
79.7667	0.3645	0.0091	2.7757	2.7848
79.8	0.3628	0.0091	2.7678	2.7769
79.8333	0.3628	0.0091	2.7718	2.7809
79.8667	0.3655	0.0091	2.7691	2.7782
79.9	0.3668	0	2.7744	2.7744
79.9333	0.3671	0.0091	2.7691	2.7782
79.9667	0.3645	0.0091	2.7731	2.7822
80	0.3671	0.0223	2.7744	2.7966
80.0333	0.3641	0.0223	2.7757	2.798
80.0667	0.3641	0.0091	2.7783	2.7874
80.1	0.3694	0.0091	2.7797	2.7888
80.1333	0.3668	0.0091	2.7718	2.7809
80.1667	0.3648	0	2.7718	2.7718
80.2	0.3641	0	2.7757	2.7757
80.2333	0.3671	0.0091	2.7797	2.7888

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
80.2667	0.3674	0	2.7836	2.7836
80.3	0.3622	0.0091	2.777	2.7861
80.3333	0.3651	0	2.7797	2.7797
80.3667	0.3701	0.0091	2.7783	2.7874
80.4	0.3668	0.0091	2.7783	2.7874
80.4333	0.3635	0.0091	2.7783	2.7874
80.4667	0.3691	0.0091	2.7757	2.7848
80.5	0.3688	0.0091	2.7757	2.7848
80.5333	0.3668	0.0091	2.7744	2.7835
80.5667	0.3684	0.0223	2.7757	2.798
80.6	0.3658	0.0223	2.7783	2.8006
80.6333	0.3681	0.0223	2.781	2.8032
80.6667	0.3688	0.0091	2.7823	2.7914
80.7	0.3707	0.0091	2.7836	2.7927
80.7333	0.3681	0.0091	2.7823	2.7914
80.7667	0.3661	0	2.7797	2.7797
80.8	0.3684	0.0223	2.7862	2.8085
80.8333	0.3668	0	2.7862	2.7862
80.8667	0.3711	0.0091	2.7902	2.7993
80.9	0.3704	0.0223	2.7928	2.8151
80.9333	0.3671	0.0091	2.7915	2.8006
80.9667	0.3697	0.0091	2.7928	2.8019
81	0.3714	0.0091	2.7981	2.8072
81.0333	0.3681	0	2.7941	2.7941
81.0667	0.3678	0.0091	2.7967	2.8058
81.1	0.3678	0.0223	2.7967	2.819
81.1333	0.3701	0.0091	2.7994	2.8085
81.1667	0.3681	0.0091	2.7967	2.8058
81.2	0.3711	0.0091	2.7941	2.8032
81.2333	0.3694	0	2.7889	2.7889
81.2667	0.3697	0	2.7889	2.7889
81.3	0.372	0.0091	2.7981	2.8072
81.3333	0.3704	0.0091	2.7915	2.8006
81.3667	0.3694	0.0091	2.7902	2.7993
81.4	0.3707	0.0223	2.7889	2.8111
81.4333	0.3694	0.0223	2.7889	2.8111
81.4667	0.3701	0.0091	2.7954	2.8045
81.5	0.3684	0.0091	2.802	2.8111
81.5333	0.3727	0	2.7954	2.7954
81.5667	0.373	0.0091	2.7928	2.8019
81.6	0.3737	0.0091	2.7954	2.8045
81.6333	0.3697	0.0091	2.7967	2.8058
81.6667	0.3724	0.0091	2.7967	2.8058



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
81.7	0.3714	0	2.802	2.802
81.7333	0.3763	0.0091	2.7994	2.8085
81.7667	0.3691	0	2.8033	2.8033
81.8	0.3727	0.0091	2.802	2.8111
81.8333	0.3727	0	2.8007	2.8007
81.8667	0.374	0	2.8046	2.8046
81.9	0.3714	0	2.8046	2.8046
81.9333	0.3724	0.0091	2.8007	2.8098
81.9667	0.3697	0.0091	2.8007	2.8098
82	0.3711	0	2.802	2.802
82.0333	0.3727	0.0091	2.8007	2.8098
82.0667	0.3727	0	2.8059	2.8059
82.1	0.3734	0.0091	2.8046	2.8137
82.1333	0.3743	0	2.8007	2.8007
82.1667	0.372	0.0091	2.8046	2.8137
82.2	0.3747	0	2.7994	2.7994
82.2333	0.3743	0.0091	2.8046	2.8137
82.2667	0.3753	0.0223	2.8073	2.8295
82.3	0.3743	0.0091	2.8046	2.8137
82.3333	0.376	0	2.7954	2.7954
82.3667	0.3717	0.0223	2.802	2.8243
82.4	0.3714	0	2.8059	2.8059
82.4333	0.3737	0.0091	2.7994	2.8085
82.4667	0.3727	0.0091	2.7994	2.8085
82.5	0.3737	0.0091	2.8033	2.8124
82.5333	0.3734	0	2.8059	2.8059
82.5667	0.374	0.0091	2.8046	2.8137
82.6	0.374	0	2.8086	2.8086
82.6333	0.3747	0.0091	2.8059	2.8151
82.6667	0.3734	0.0091	2.8033	2.8124
82.7	0.375	0	2.8086	2.8086
82.7333	0.376	0	2.8125	2.8125
82.7667	0.3734	0	2.8099	2.8099
82.8	0.3743	0.0223	2.8033	2.8256
82.8333	0.373	0.0091	2.8007	2.8098
82.8667	0.376	0.0091	2.8073	2.8164
82.9	0.3724	0	2.8059	2.8059
82.9333	0.3717	0	2.8046	2.8046
82.9667	0.3734	0	2.8073	2.8073
83	0.374	0.0091	2.8125	2.8216
83.0333	0.376	0.0091	2.8086	2.8177
83.0667	0.372	0.0091	2.8073	2.8164
83.1	0.375	0	2.8046	2.8046

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
83.1333	0.3747	0.0091	2.802	2.8111
83.1667	0.3747	0.0091	2.8007	2.8098
83.2	0.3737	0.0223	2.8046	2.8269
83.2333	0.374	0.0091	2.8073	2.8164
83.2667	0.3724	0	2.8059	2.8059
83.3	0.3714	0.0091	2.8046	2.8137
83.3333	0.3704	0.0091	2.8046	2.8137
83.3667	0.3737	0.0091	2.8099	2.819
83.4	0.372	0	2.8073	2.8073
83.4333	0.3747	0.0091	2.802	2.8111
83.4667	0.3747	0	2.8086	2.8086
83.5	0.375	0.0091	2.8099	2.819
83.5333	0.3704	0.0091	2.8086	2.8177
83.5667	0.3678	0	2.8046	2.8046
83.6	0.3734	0	2.8059	2.8059
83.6333	0.373	0.0091	2.8007	2.8098
83.6667	0.3691	0.0091	2.8099	2.819
83.7	0.3727	0.0091	2.8112	2.8203
83.7333	0.3694	0	2.8073	2.8073
83.7667	0.3701	0.0091	2.8086	2.8177
83.8	0.3711	0.0223	2.8059	2.8282
83.8333	0.3701	0.0091	2.8112	2.8203
83.8667	0.3714	0.0223	2.8086	2.8308
83.9	0.3734	0	2.8099	2.8099
83.9333	0.3694	0	2.8073	2.8073
83.9667	0.3707	0	2.8112	2.8112
84	0.3691	0	2.802	2.802
84.0333	0.3684	0.0223	2.8138	2.8361
84.0667	0.3711	0.0223	2.8059	2.8282
84.1	0.3678	0	2.8073	2.8073
84.1333	0.3668	0	2.8059	2.8059
84.1667	0.3711	0.0091	2.8059	2.8151
84.2	0.3655	0.0091	2.8086	2.8177
84.2333	0.3655	0	2.8059	2.8059
84.2667	0.3688	0.0091	2.8059	2.8151
84.3	0.3674	0.0091	2.8073	2.8164
84.3333	0.3707	0	2.8059	2.8059
84.3667	0.3701	0	2.8046	2.8046
84.4	0.3658	0.0223	2.8086	2.8308
84.4333	0.3674	0.0223	2.8059	2.8282
84.4667	0.3697	0.0091	2.8033	2.8124
84.5	0.3694	0.0223	2.8086	2.8308
84.5333	0.3655	0.0223	2.8033	2.8256

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
84.5667	0.3704	0	2.8073	2.8073
84.6	0.3691	0.0091	2.8099	2.819
84.6333	0.3658	0.0091	2.8033	2.8124
84.6667	0.3665	0.0091	2.7994	2.8085
84.7	0.3648	0	2.8059	2.8059
84.7333	0.3658	0.0091	2.7994	2.8085
84.7667	0.3658	0.0091	2.8007	2.8098
84.8	0.3681	0.0091	2.8046	2.8137
84.8333	0.3655	0.0091	2.802	2.8111
84.8667	0.3645	0.0091	2.7954	2.8045
84.9	0.3655	0	2.7967	2.7967
84.9333	0.3648	0	2.7954	2.7954
84.9667	0.3635	0.0223	2.7928	2.8151
85	0.3638	0	2.7994	2.7994
85.0333	0.3648	0.0223	2.7994	2.8216
85.0667	0.3638	0.0091	2.7994	2.8085
85.1	0.3658	0.0091	2.7954	2.8045
85.1333	0.3658	0	2.7994	2.7994
85.1667	0.3648	0.0223	2.7967	2.819
85.2	0.3628	0	2.7994	2.7994
85.2333	0.3661	0	2.7981	2.7981
85.2667	0.3661	0.0091	2.7967	2.8058
85.3	0.3638	0	2.7928	2.7928
85.3333	0.3655	0.0091	2.7928	2.8019
85.3667	0.3658	0	2.7902	2.7902
85.4	0.3658	0.0091	2.7954	2.8045
85.4333	0.3655	0	2.7941	2.7941
85.4667	0.3628	0.0091	2.7941	2.8032
85.5	0.3651	0.0223	2.7902	2.8124
85.5333	0.3668	0	2.7967	2.7967
85.5667	0.3609	0.0091	2.7915	2.8006
85.6	0.3628	0.0091	2.7981	2.8072
85.6333	0.3635	0	2.7862	2.7862
85.6667	0.3618	0	2.7889	2.7889
85.7	0.3635	0.0223	2.7889	2.8111
85.7333	0.3615	0.0091	2.7889	2.798
85.7667	0.3622	0.0091	2.7954	2.8045
85.8	0.3628	0.0091	2.7902	2.7993
85.8333	0.3609	0.0091	2.7862	2.7953
85.8667	0.3605	0.0091	2.7915	2.8006
85.9	0.3655	0	2.7875	2.7875
85.9333	0.3645	0.0091	2.7849	2.794
85.9667	0.3641	0	2.7902	2.7902

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
86	0.3599	0.0091	2.7889	2.798
86.0333	0.3625	0.0223	2.7902	2.8124
86.0667	0.3612	0	2.7902	2.7902
86.1	0.3618	0.0091	2.7941	2.8032
86.1333	0.3618	0	2.7862	2.7862
86.1667	0.3622	0.0091	2.7849	2.794
86.2	0.3609	0.0091	2.7915	2.8006
86.2333	0.3615	0	2.7889	2.7889
86.2667	0.3635	0.0091	2.7889	2.798
86.3	0.3589	0.0091	2.7875	2.7966
86.3333	0.3605	0.0091	2.7889	2.798
86.3667	0.3632	0.0091	2.7902	2.7993
86.4	0.3618	0.0091	2.7902	2.7993
86.4333	0.3615	0.0223	2.7862	2.8085
86.4667	0.3579	0	2.7849	2.7849
86.5	0.3602	0.0091	2.7902	2.7993
86.5333	0.3595	0.0091	2.7849	2.794
86.5667	0.3602	0.0091	2.7889	2.798
86.6	0.3622	0.0091	2.7849	2.794
86.6333	0.3625	0.0223	2.7875	2.8098
86.6667	0.3599	0.0091	2.7849	2.794
86.7	0.3602	0.0091	2.7862	2.7953
86.7333	0.3612	0.0091	2.7823	2.7914
86.7667	0.3586	0.0091	2.7823	2.7914
86.8	0.3589	0.0354	2.7823	2.8177
86.8333	0.3609	0.0223	2.7836	2.8058
86.8667	0.3589	0	2.7849	2.7849
86.9	0.3625	0.0223	2.7783	2.8006
86.9333	0.3602	0.0091	2.7797	2.7888
86.9667	0.3602	0.0091	2.7797	2.7888
87	0.3592	0	2.7823	2.7823
87.0333	0.3592	0.0091	2.7836	2.7927
87.0667	0.3582	0.0091	2.7836	2.7927
87.1	0.3618	0.0091	2.7849	2.794
87.1333	0.3609	0	2.7902	2.7902
87.1667	0.3592	0.0091	2.7875	2.7966
87.2	0.3579	0.0091	2.7889	2.798
87.2333	0.3586	0.0223	2.7783	2.8006
87.2667	0.3615	0.0091	2.7849	2.794
87.3	0.3595	0.0223	2.7849	2.8072
87.3333	0.3609	0.0091	2.7862	2.7953
87.3667	0.3612	0.0091	2.7849	2.794
87.4	0.3592	0	2.7862	2.7862

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
87.4333	0.3579	0	2.7849	2.7849
87.4667	0.3592	0.0091	2.7836	2.7927
87.5	0.3556	0.0223	2.7889	2.8111
87.5333	0.3566	0.0091	2.7823	2.7914
87.5667	0.3572	0.0223	2.781	2.8032
87.6	0.3576	0.0091	2.7757	2.7848
87.6333	0.3576	0.0223	2.7862	2.8085
87.6667	0.3559	0.0091	2.7836	2.7927
87.7	0.3579	0.0091	2.7849	2.794
87.7333	0.3586	0.0091	2.7849	2.794
87.7667	0.3562	0.0354	2.7862	2.8216
87.8	0.3566	0	2.7862	2.7862
87.8333	0.3582	0.0091	2.781	2.7901
87.8667	0.3586	0	2.7797	2.7797
87.9	0.3569	0.0091	2.7836	2.7927
87.9333	0.3605	0.0091	2.781	2.7901
87.9667	0.3572	0.0091	2.7823	2.7914
88	0.3589	0.0223	2.7797	2.8019
88.0333	0.3586	0.0091	2.781	2.7901
88.0667	0.3586	0.0091	2.7783	2.7874
88.1	0.3582	0.0091	2.7797	2.7888
88.1333	0.3562	0.0091	2.7797	2.7888
88.1667	0.3582	0.0091	2.777	2.7861
88.2	0.3553	0.0091	2.7704	2.7795
88.2333	0.3536	0	2.7797	2.7797
88.2667	0.3572	0.0091	2.7823	2.7914
88.3	0.3566	0.0091	2.7744	2.7835
88.3333	0.3556	0.0223	2.7757	2.798
88.3667	0.3579	0	2.7731	2.7731
88.4	0.3549	0.0354	2.7744	2.8098
88.4333	0.3582	0.0091	2.7757	2.7848
88.4667	0.3546	0.0091	2.7731	2.7822
88.5	0.3572	0.0091	2.7744	2.7835
88.5333	0.3553	0.0091	2.7757	2.7848
88.5667	0.3553	0.0091	2.7731	2.7822
88.6	0.3579	0.0091	2.777	2.7861
88.6333	0.3559	0.0091	2.7718	2.7809
88.6667	0.3579	0.0091	2.7744	2.7835
88.7	0.3562	0	2.7718	2.7718
88.7333	0.3569	0	2.7757	2.7757
88.7667	0.3549	0.0091	2.7731	2.7822
88.8	0.3553	0.0091	2.7783	2.7874
88.8333	0.3553	0.0091	2.7704	2.7795

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
88.8667	0.3536	0.0091	2.7731	2.7822
88.9	0.3533	0.0091	2.777	2.7861
88.9333	0.3549	0.0223	2.777	2.7993
88.9667	0.3553	0.0091	2.7691	2.7782
89	0.3536	0	2.7718	2.7718
89.0333	0.3559	0.0091	2.7744	2.7835
89.0667	0.3523	0.0091	2.7731	2.7822
89.1	0.3553	0	2.7718	2.7718
89.1333	0.3559	0.0223	2.7718	2.794
89.1667	0.3513	0.0091	2.7757	2.7848
89.2	0.3516	0.0091	2.7691	2.7782
89.2333	0.3562	0.0091	2.7718	2.7809
89.2667	0.3562	0.0091	2.7704	2.7795
89.3	0.3549	0.0091	2.7652	2.7743
89.3333	0.351	0.0223	2.7678	2.7901
89.3667	0.3507	0.0091	2.7744	2.7835
89.4	0.3543	0.0091	2.7678	2.7769
89.4333	0.3543	0	2.7652	2.7652
89.4667	0.3523	0	2.7691	2.7691
89.5	0.3523	0	2.7639	2.7639
89.5333	0.3556	0.0223	2.7691	2.7914
89.5667	0.3536	0.0091	2.7678	2.7769
89.6	0.3536	0.0091	2.7626	2.7717
89.6333	0.3507	0.0091	2.7652	2.7743
89.6667	0.3523	0.0223	2.7665	2.7888
89.7	0.353	0	2.7704	2.7704
89.7333	0.353	0.0223	2.7652	2.7874
89.7667	0.3536	0.0091	2.7626	2.7717
89.8	0.353	0.0091	2.7678	2.7769
89.8333	0.3539	0.0091	2.7586	2.7677
89.8667	0.3539	0.0091	2.7626	2.7717
89.9	0.3546	0.0223	2.7612	2.7835
89.9333	0.3533	0.0091	2.7678	2.7769
89.9667	0.35	0.0223	2.7612	2.7835
90	0.3503	0	2.7573	2.7573
90.0333	0.351	0	2.7573	2.7573
90.0667	0.3533	0.0091	2.7612	2.7703
90.1	0.3533	0	2.7573	2.7573
90.1333	0.3523	0	2.7586	2.7586
90.1667	0.3513	0.0091	2.7599	2.769
90.2	0.3546	0.0091	2.7612	2.7703
90.2333	0.3533	0.0091	2.7599	2.769
90.2667	0.352	0.0223	2.7586	2.7809

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
90.3	0.3516	0.0223	2.7612	2.7835
90.3333	0.3566	0.0091	2.7612	2.7703
90.3667	0.3516	0.0091	2.756	2.7651
90.4	0.3539	0.0091	2.7573	2.7664
90.4333	0.353	0	2.756	2.756
90.4667	0.353	0	2.7599	2.7599
90.5	0.3543	0.0223	2.7547	2.7769
90.5333	0.3526	0.0091	2.7547	2.7638
90.5667	0.3556	0	2.756	2.756
90.6	0.3513	0	2.7639	2.7639
90.6333	0.3556	0.0091	2.752	2.7611
90.6667	0.3523	0.0223	2.7612	2.7835
90.7	0.3553	0.0223	2.7586	2.7809
90.7333	0.3553	0.0091	2.7547	2.7638
90.7667	0.3559	0.0091	2.756	2.7651
90.8	0.3533	0.0091	2.7547	2.7638
90.8333	0.3523	0.0091	2.7586	2.7677
90.8667	0.3536	0.0223	2.756	2.7782
90.9	0.3546	0.0223	2.7534	2.7756
90.9333	0.3523	0.0091	2.7573	2.7664
90.9667	0.3536	0	2.7494	2.7494
91	0.3543	0.0091	2.752	2.7611
91.0333	0.3523	0.0091	2.752	2.7611
91.0667	0.3539	0.0223	2.7534	2.7756
91.1	0.3559	0.0223	2.7468	2.769
91.1333	0.3513	0.0091	2.7481	2.7572
91.1667	0.3526	0.0091	2.7494	2.7585
91.2	0.3539	0	2.7547	2.7547
91.2333	0.3539	0.0091	2.756	2.7651
91.2667	0.3526	0	2.752	2.752
91.3	0.351	0.0091	2.7534	2.7625
91.3333	0.3526	0.0091	2.7534	2.7625
91.3667	0.3536	0.0223	2.7547	2.7769
91.4	0.3562	0.0091	2.7481	2.7572
91.4333	0.3546	0.0091	2.756	2.7651
91.4667	0.3559	0.0091	2.7507	2.7598
91.5	0.3526	0.0091	2.7468	2.7559
91.5333	0.3513	0.0091	2.7507	2.7598
91.5667	0.3539	0	2.7573	2.7573
91.6	0.3553	0	2.7481	2.7481
91.6333	0.3543	0.0091	2.7441	2.7532
91.6667	0.3543	0.0091	2.7481	2.7572
91.7	0.3553	0	2.7507	2.7507

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
91.7333	0.3546	0	2.7468	2.7468
91.7667	0.3562	0	2.7468	2.7468
91.8	0.353	0.0091	2.7468	2.7559
91.8333	0.3549	0.0223	2.7481	2.7703
91.8667	0.3546	0.0091	2.7481	2.7572
91.9	0.3546	0.0223	2.7494	2.7717
91.9333	0.3566	0	2.7507	2.7507
91.9667	0.3556	0.0091	2.7507	2.7598
92	0.3523	0	2.7481	2.7481
92.0333	0.353	0.0091	2.7428	2.7519
92.0667	0.3562	0	2.7468	2.7468
92.1	0.3556	0.0091	2.7455	2.7546
92.1333	0.3543	0.0091	2.7468	2.7559
92.1667	0.3536	0	2.7481	2.7481
92.2	0.3549	0.0091	2.7481	2.7572
92.2333	0.3566	0	2.7494	2.7494
92.2667	0.3576	0.0091	2.7481	2.7572
92.3	0.3546	0.0091	2.7507	2.7598
92.3333	0.3536	0.0223	2.7468	2.769
92.3667	0.3539	0	2.7494	2.7494
92.4	0.3582	0.0091	2.7494	2.7585
92.4333	0.3576	0.0223	2.7468	2.769
92.4667	0.3549	0.0091	2.752	2.7611
92.5	0.3586	0.0223	2.7494	2.7717
92.5333	0.3546	0.0091	2.7507	2.7598
92.5667	0.3592	0.0223	2.7468	2.769
92.6	0.3582	0.0091	2.7494	2.7585
92.6333	0.3586	0.0091	2.7481	2.7572
92.6667	0.3569	0.0091	2.7494	2.7585
92.7	0.3556	0.0223	2.7494	2.7717
92.7333	0.3595	0.0091	2.7494	2.7585
92.7667	0.3566	0	2.7468	2.7468
92.8	0.3572	0	2.7494	2.7494
92.8333	0.3582	0	2.752	2.752
92.8667	0.3586	0.0091	2.7468	2.7559
92.9	0.3566	0.0223	2.7494	2.7717
92.9333	0.3595	0.0091	2.7547	2.7638
92.9667	0.3592	0	2.7494	2.7494
93	0.3569	0.0223	2.752	2.7743
93.0333	0.3595	0.0091	2.752	2.7611
93.0667	0.3602	0.0091	2.7534	2.7625
93.1	0.3595	0	2.752	2.752
93.1333	0.3589	0.0091	2.7534	2.7625



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
93.1667	0.3576	0.0091	2.7507	2.7598
93.2	0.3566	0	2.7481	2.7481
93.2333	0.3609	0.0091	2.752	2.7611
93.2667	0.3589	0.0091	2.7612	2.7703
93.3	0.3632	0.0223	2.7586	2.7809
93.3333	0.3599	0.0223	2.7547	2.7769
93.3667	0.3612	0.0223	2.7573	2.7795
93.4	0.3582	0.0091	2.7547	2.7638
93.4333	0.3592	0	2.7547	2.7547
93.4667	0.3589	0.0091	2.752	2.7611
93.5	0.3609	0.0354	2.7547	2.7901
93.5333	0.3605	0	2.756	2.756
93.5667	0.3582	0	2.7547	2.7547
93.6	0.3625	0.0091	2.7547	2.7638
93.6333	0.3615	0.0223	2.7547	2.7769
93.6667	0.3595	0	2.7534	2.7534
93.7	0.3622	0.0091	2.7586	2.7677
93.7333	0.3602	0.0091	2.756	2.7651
93.7667	0.3605	0.0091	2.7547	2.7638
93.8	0.3628	0.0091	2.7599	2.769
93.8333	0.3605	0.0091	2.7573	2.7664
93.8667	0.3615	0.0223	2.7626	2.7848
93.9	0.3602	0	2.756	2.756
93.9333	0.3628	0	2.7599	2.7599
93.9667	0.3605	0	2.7612	2.7612
94	0.3618	0.0091	2.7599	2.769
94.0333	0.3615	0.0091	2.7626	2.7717
94.0667	0.3628	0.0091	2.7678	2.7769
94.1	0.3612	0.0091	2.7573	2.7664
94.1333	0.3618	0.0223	2.7612	2.7835
94.1667	0.3638	0.0091	2.7626	2.7717
94.2	0.3628	0.0091	2.7652	2.7743
94.2333	0.3615	0	2.7599	2.7599
94.2667	0.3625	0	2.7599	2.7599
94.3	0.3638	0.0091	2.7652	2.7743
94.3333	0.3615	0.0223	2.7665	2.7888
94.3667	0.3665	0	2.7612	2.7612
94.4	0.3638	0.0091	2.7691	2.7782
94.4333	0.3615	0.0223	2.7691	2.7914
94.4667	0.3622	0.0091	2.7665	2.7756
94.5	0.3641	0.0091	2.7665	2.7756
94.5333	0.3618	0.0091	2.7665	2.7756
94.5667	0.3661	0.0091	2.7639	2.773

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
94.6	0.3661	0.0091	2.7639	2.773
94.6333	0.3648	0	2.7691	2.7691
94.6667	0.3632	0.0091	2.7652	2.7743
94.7	0.3625	0.0091	2.7639	2.773
94.7333	0.3645	0.0091	2.7678	2.7769
94.7667	0.3595	0.0091	2.7639	2.773
94.8	0.3641	0	2.7704	2.7704
94.8333	0.3655	0.0091	2.7652	2.7743
94.8667	0.3635	0.0223	2.7665	2.7888
94.9	0.3661	0.0091	2.7639	2.773
94.9333	0.3632	0.0091	2.7678	2.7769
94.9667	0.3661	0.0091	2.7691	2.7782
95	0.3655	0.0354	2.7626	2.798
95.0333	0.3668	0.0091	2.7639	2.773
95.0667	0.3661	0	2.7704	2.7704
95.1	0.3635	0.0091	2.7691	2.7782
95.1333	0.3645	0	2.7678	2.7678
95.1667	0.3645	0.0091	2.7704	2.7795
95.2	0.3628	0.0091	2.7731	2.7822
95.2333	0.3671	0.0091	2.7718	2.7809
95.2667	0.3645	0.0091	2.7744	2.7835
95.3	0.3648	0.0091	2.7718	2.7809
95.3333	0.3641	0.0091	2.7731	2.7822
95.3667	0.3661	0.0091	2.7718	2.7809
95.4	0.3688	0.0091	2.7757	2.7848
95.4333	0.3661	0.0091	2.7718	2.7809
95.4667	0.3651	0.0223	2.7678	2.7901
95.5	0.3661	0.0223	2.7718	2.794
95.5333	0.3658	0.0091	2.7718	2.7809
95.5667	0.3638	0.0091	2.7731	2.7822
95.6	0.3638	0.0223	2.7731	2.7953
95.6333	0.3661	0.0223	2.7704	2.7927
95.6667	0.3671	0.0091	2.7757	2.7848
95.7	0.3648	0	2.7757	2.7757
95.7333	0.3661	0.0091	2.7744	2.7835
95.7667	0.3688	0.0091	2.7783	2.7874
95.8	0.3658	0.0091	2.7744	2.7835
95.8333	0.3674	0.0091	2.7731	2.7822
95.8667	0.3638	0.0091	2.7744	2.7835
95.9	0.3684	0.0223	2.7849	2.8072
95.9333	0.3671	0.0091	2.7783	2.7874
95.9667	0.3661	0.0091	2.777	2.7861
96	0.3684	0.0223	2.7823	2.8045

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
96.0333	0.3668	0.0091	2.7757	2.7848
96.0667	0.3674	0.0091	2.7797	2.7888
96.1	0.3668	0.0091	2.781	2.7901
96.1333	0.3678	0.0223	2.7836	2.8058
96.1667	0.3655	0.0223	2.7783	2.8006
96.2	0.3704	0.0091	2.781	2.7901
96.2333	0.3681	0.0223	2.7836	2.8058
96.2667	0.3661	0	2.7836	2.7836
96.3	0.3668	0.0091	2.7823	2.7914
96.3333	0.3674	0.0223	2.7823	2.8045
96.3667	0.3684	0	2.7862	2.7862
96.4	0.3684	0.0223	2.7836	2.8058
96.4333	0.3655	0.0091	2.781	2.7901
96.4667	0.3674	0.0223	2.7862	2.8085
96.5	0.3678	0.0091	2.7862	2.7953
96.5333	0.3648	0.0223	2.7823	2.8045
96.5667	0.3655	0	2.7849	2.7849
96.6	0.3635	0.0091	2.7862	2.7953
96.6333	0.3668	0.0091	2.7849	2.794
96.6667	0.3632	0.0091	2.7862	2.7953
96.7	0.3684	0.0223	2.7849	2.8072
96.7333	0.3645	0.0091	2.7797	2.7888
96.7667	0.3671	0.0091	2.7849	2.794
96.8	0.3648	0.0223	2.7889	2.8111
96.8333	0.3668	0.0091	2.7889	2.798
96.8667	0.3641	0.0091	2.7836	2.7927
96.9	0.3671	0.0091	2.7889	2.798
96.9333	0.3648	0.0091	2.7902	2.7993
96.9667	0.3651	0	2.7889	2.7889
97	0.3648	0.0091	2.7862	2.7953
97.0333	0.3655	0	2.7836	2.7836
97.0667	0.3665	0.0091	2.7836	2.7927
97.1	0.3668	0.0091	2.7823	2.7914
97.1333	0.3645	0.0223	2.7823	2.8045
97.1667	0.3674	0.0091	2.7849	2.794
97.2	0.3674	0.0091	2.7757	2.7848
97.2333	0.3665	0.0091	2.781	2.7901
97.2667	0.3674	0.0223	2.781	2.8032
97.3	0.3668	0.0091	2.7836	2.7927
97.3333	0.3688	0	2.7862	2.7862
97.3667	0.3638	0.0091	2.7889	2.798
97.4	0.3655	0.0091	2.7875	2.7966
97.4333	0.3632	0.0091	2.7862	2.7953

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
97.4667	0.3668	0.0091	2.7875	2.7966
97.5	0.3625	0	2.7889	2.7889
97.5333	0.3641	0.0223	2.7836	2.8058
97.5667	0.3635	0.0091	2.7862	2.7953
97.6	0.3641	0	2.7875	2.7875
97.6333	0.3658	0	2.7862	2.7862
97.6667	0.3678	0.0091	2.7783	2.7874
97.7	0.3641	0.0223	2.781	2.8032
97.7333	0.3661	0	2.7797	2.7797
97.7667	0.3655	0.0091	2.7823	2.7914
97.8	0.3645	0	2.7823	2.7823
97.8333	0.3658	0.0223	2.7836	2.8058
97.8667	0.3665	0.0091	2.7862	2.7953
97.9	0.3655	0.0091	2.781	2.7901
97.9333	0.3648	0.0091	2.7797	2.7888
97.9667	0.3661	0.0091	2.7797	2.7888
98	0.3678	0.0223	2.7783	2.8006
98.0333	0.3658	0.0091	2.7783	2.7874
98.0667	0.3661	0	2.7797	2.7797
98.1	0.3635	0	2.7731	2.7731
98.1333	0.3671	0.0223	2.7783	2.8006
98.1667	0.3655	0	2.7823	2.7823
98.2	0.3638	0	2.777	2.777
98.2333	0.3665	0	2.777	2.777
98.2667	0.3645	0.0091	2.7757	2.7848
98.3	0.3618	0.0091	2.7783	2.7874
98.3333	0.3661	0	2.777	2.777
98.3667	0.3648	0.0223	2.7823	2.8045
98.4	0.3658	0.0091	2.781	2.7901
98.4333	0.3628	0.0223	2.7757	2.798
98.4667	0.3641	0.0091	2.7849	2.794
98.5	0.3625	0	2.7823	2.7823
98.5333	0.3651	0.0223	2.7862	2.8085
98.5667	0.3641	0.0091	2.7836	2.7927
98.6	0.3658	0.0091	2.7783	2.7874
98.6333	0.3615	0.0091	2.7849	2.794
98.6667	0.3651	0.0223	2.7849	2.8072
98.7	0.3648	0.0223	2.781	2.8032
98.7333	0.3665	0.0091	2.7836	2.7927
98.7667	0.3655	0.0091	2.7783	2.7874
98.8	0.3645	0	2.7849	2.7849
98.8333	0.3658	0.0223	2.7823	2.8045
98.8667	0.3645	0	2.781	2.781

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
98.9	0.3638	0.0223	2.777	2.7993
98.9333	0.3661	0.0091	2.7823	2.7914
98.9667	0.3618	0	2.777	2.777
99	0.3651	0.0091	2.781	2.7901
99.0333	0.3618	0.0091	2.7744	2.7835
99.0667	0.3632	0.0091	2.7783	2.7874
99.1	0.3635	0.0091	2.777	2.7861
99.1333	0.3615	0.0091	2.7836	2.7927
99.1667	0.3665	0.0091	2.7797	2.7888
99.2	0.3658	0.0091	2.7783	2.7874
99.2333	0.3658	0.0223	2.7823	2.8045
99.2667	0.3641	0	2.7823	2.7823
99.3	0.3671	0	2.7797	2.7797
99.3333	0.3635	0	2.7757	2.7757
99.3667	0.3674	0.0223	2.777	2.7993
99.4	0.3635	0.0091	2.7757	2.7848
99.4333	0.3641	0.0091	2.7744	2.7835
99.4667	0.3641	0	2.7744	2.7744
99.5	0.3635	0	2.7757	2.7757
99.5333	0.3655	0.0223	2.777	2.7993
99.5667	0.3612	0.0223	2.7783	2.8006
99.6	0.3625	0.0091	2.7744	2.7835
99.6333	0.3661	0.0223	2.7783	2.8006
99.6667	0.3638	0.0091	2.7783	2.7874
99.7	0.3655	0	2.7783	2.7783
99.7333	0.3615	0	2.777	2.777
99.7667	0.3632	0.0091	2.7757	2.7848
99.8	0.3618	0.0223	2.7836	2.8058
99.8333	0.3635	0.0091	2.7783	2.7874
99.8667	0.3628	0.0354	2.7757	2.8111
99.9	0.3641	0	2.777	2.777
99.9333	0.3655	0.0223	2.7757	2.798
99.9667	0.3655	0.0091	2.777	2.7861
100	0.3638	0	2.7783	2.7783
100.0333	0.3641	0	2.7823	2.7823
100.0667	0.3618	0.0091	2.7797	2.7888
100.1	0.3632	0.0091	2.7823	2.7914
100.1333	0.3645	0.0223	2.7757	2.798
100.1667	0.3632	0.0091	2.7757	2.7848
100.2	0.3625	0.0091	2.7836	2.7927
100.2333	0.3602	0	2.7783	2.7783
100.2667	0.3635	0.0091	2.7718	2.7809
100.3	0.3638	0.0091	2.7718	2.7809

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
100.3333	0.3622	0.0091	2.7731	2.7822
100.3667	0.3615	0.0091	2.7783	2.7874
100.4	0.3655	0.0091	2.7757	2.7848
100.4333	0.3645	0.0091	2.7783	2.7874
100.4667	0.3618	0.0091	2.7757	2.7848
100.5	0.3625	0.0223	2.781	2.8032
100.5333	0.3641	0.0091	2.7797	2.7888
100.5667	0.3655	0.0091	2.7783	2.7874
100.6	0.3632	0.0091	2.7744	2.7835
100.6333	0.3638	0.0354	2.781	2.8164
100.6667	0.3628	0	2.7757	2.7757
100.7	0.3632	0.0091	2.781	2.7901
100.7333	0.3648	0.0091	2.7744	2.7835
100.7667	0.3635	0.0091	2.7783	2.7874
100.8	0.3635	0.0091	2.777	2.7861
100.8333	0.3648	0	2.7744	2.7744
100.8667	0.3628	0.0223	2.7718	2.794
100.9	0.3628	0.0091	2.7731	2.7822
100.9333	0.3605	0.0091	2.7783	2.7874
100.9667	0.3622	0.0091	2.7731	2.7822
101	0.3592	0.0091	2.7757	2.7848
101.0333	0.3622	0	2.777	2.777
101.0667	0.3641	0	2.7744	2.7744
101.1	0.3645	0.0091	2.7731	2.7822
101.1333	0.3615	0.0091	2.777	2.7861
101.1667	0.3628	0.0223	2.7718	2.794
101.2	0.3622	0.0091	2.7718	2.7809
101.2333	0.3622	0.0091	2.7731	2.7822
101.2667	0.3632	0	2.7731	2.7731
101.3	0.3618	0.0091	2.777	2.7861
101.3333	0.3609	0	2.7691	2.7691
101.3667	0.3635	0.0223	2.7757	2.798
101.4	0.3632	0.0091	2.777	2.7861
101.4333	0.3615	0.0091	2.777	2.7861
101.4667	0.3615	0.0091	2.7797	2.7888
101.5	0.3625	0	2.7731	2.7731
101.5333	0.3638	0.0091	2.7783	2.7874
101.5667	0.3618	0.0091	2.7744	2.7835
101.6	0.3638	0.0091	2.7744	2.7835
101.6333	0.3612	0.0091	2.7757	2.7848
101.6667	0.3625	0.0091	2.7797	2.7888
101.7	0.3635	0.0091	2.7797	2.7888
101.7333	0.3605	0.0223	2.7731	2.7953

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
101.7667	0.3586	0.0091	2.7757	2.7848
101.8	0.3612	0.0091	2.7744	2.7835
101.8333	0.3595	0.0223	2.7757	2.798
101.8667	0.3612	0	2.7757	2.7757
101.9	0.3602	0.0091	2.7731	2.7822
101.9333	0.3605	0	2.7783	2.7783
101.9667	0.3605	0.0091	2.7744	2.7835
102	0.3655	0	2.7731	2.7731
102.0333	0.3635	0.0091	2.7718	2.7809
102.0667	0.3632	0.0091	2.7691	2.7782
102.1	0.3618	0.0223	2.7718	2.794
102.1333	0.3628	0	2.7704	2.7704
102.1667	0.3632	0.0091	2.7704	2.7795
102.2	0.3612	0.0091	2.7718	2.7809
102.2333	0.3622	0.0091	2.7731	2.7822
102.2667	0.3602	0	2.7744	2.7744
102.3	0.3622	0.0223	2.7665	2.7888
102.3333	0.3589	0.0354	2.7704	2.8058
102.3667	0.3635	0.0091	2.7665	2.7756
102.4	0.3615	0.0223	2.7744	2.7966
102.4333	0.3622	0.0091	2.7704	2.7795
102.4667	0.3615	0.0091	2.7678	2.7769
102.5	0.3586	0.0091	2.7744	2.7835
102.5333	0.3632	0.0091	2.7704	2.7795
102.5667	0.3605	0.0223	2.7678	2.7901
102.6	0.3641	0	2.7704	2.7704
102.6333	0.3618	0.0091	2.7691	2.7782
102.6667	0.3602	0.0354	2.7691	2.8045
102.7	0.3645	0	2.7652	2.7652
102.7333	0.3586	0.0091	2.7652	2.7743
102.7667	0.3589	0.0091	2.7665	2.7756
102.8	0.3615	0.0091	2.7678	2.7769
102.8333	0.3615	0	2.7652	2.7652
102.8667	0.3635	0.0091	2.7599	2.769
102.9	0.3609	0.0091	2.7652	2.7743
102.9333	0.3612	0.0223	2.7678	2.7901
102.9667	0.3592	0	2.7652	2.7652
103	0.3612	0	2.7612	2.7612
103.0333	0.3599	0.0091	2.7626	2.7717
103.0667	0.3592	0.0091	2.7652	2.7743
103.1	0.3618	0.0091	2.7665	2.7756
103.1333	0.3625	0	2.7626	2.7626
103.1667	0.3612	0.0091	2.7678	2.7769

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
103.2	0.3609	0.0354	2.7626	2.798
103.2333	0.3632	0.0223	2.7652	2.7874
103.2667	0.3618	0.0091	2.7639	2.773
103.3	0.3605	0.0091	2.7612	2.7703
103.3333	0.3622	0.0091	2.7599	2.769
103.3667	0.3602	0	2.7573	2.7573
103.4	0.3622	0	2.7534	2.7534
103.4333	0.3622	0.0091	2.756	2.7651
103.4667	0.3622	0.0091	2.7534	2.7625
103.5	0.3615	0.0091	2.7573	2.7664
103.5333	0.3572	0.0223	2.7573	2.7795
103.5667	0.3599	0.0091	2.7573	2.7664
103.6	0.3628	0.0223	2.752	2.7743
103.6333	0.3618	0.0223	2.7547	2.7769
103.6667	0.3618	0.0223	2.7612	2.7835
103.7	0.3586	0.0223	2.756	2.7782
103.7333	0.3615	0.0091	2.7626	2.7717
103.7667	0.3589	0.0091	2.7626	2.7717
103.8	0.3582	0.0091	2.756	2.7651
103.8333	0.3589	0.0091	2.7586	2.7677
103.8667	0.3589	0.0091	2.7573	2.7664
103.9	0.3615	0.0091	2.7612	2.7703
103.9333	0.3599	0.0091	2.7573	2.7664
103.9667	0.3589	0.0223	2.7612	2.7835
104	0.3586	0.0091	2.7626	2.7717
104.0333	0.3628	0.0091	2.7612	2.7703
104.0667	0.3605	0.0091	2.7547	2.7638
104.1	0.3579	0	2.756	2.756
104.1333	0.3605	0.0091	2.7586	2.7677
104.1667	0.3576	0.0091	2.7573	2.7664
104.2	0.3615	0.0091	2.756	2.7651
104.2333	0.3595	0.0223	2.7586	2.7809
104.2667	0.3589	0.0091	2.7586	2.7677
104.3	0.3579	0.0091	2.7534	2.7625
104.3333	0.3609	0.0223	2.7547	2.7769
104.3667	0.3609	0.0091	2.7507	2.7598
104.4	0.3572	0.0091	2.7507	2.7598
104.4333	0.3595	0.0091	2.7507	2.7598
104.4667	0.3609	0.0091	2.7507	2.7598
104.5	0.3566	0.0091	2.7547	2.7638
104.5333	0.3602	0.0091	2.7534	2.7625
104.5667	0.3612	0.0223	2.7534	2.7756
104.6	0.3632	0.0223	2.752	2.7743



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
104.6333	0.3707	0.0091	2.7534	2.7625
104.6667	0.3743	0	2.7612	2.7612
104.7	0.3816	0.0223	2.7678	2.7901
104.7333	0.3915	0.0223	2.7731	2.7953
104.7667	0.3971	0.0091	2.781	2.7901
104.8	0.4066	0.0091	2.7902	2.7993
104.8333	0.4148	0	2.8007	2.8007
104.8667	0.4231	0	2.8112	2.8112
104.9	0.426	0	2.8204	2.8204
104.9333	0.4326	0.0091	2.8309	2.84
104.9667	0.4408	0.0091	2.8401	2.8492
105	0.4468	0.0091	2.8546	2.8637
105.0333	0.4543	0.0091	2.8625	2.8716
105.0667	0.4576	0.0091	2.8704	2.8795
105.1	0.4629	0.0223	2.8835	2.9058
105.1333	0.4678	0.0091	2.9019	2.911
105.1667	0.4737	0.0223	2.9111	2.9334
105.2	0.4823	0.0091	2.9164	2.9255
105.2333	0.4833	0.0091	2.9361	2.9452
105.2667	0.4915	0	2.9401	2.9401
105.3	0.4958	0.0091	2.9545	2.9636
105.3333	0.5007	0	2.9677	2.9677
105.3667	0.5067	0.0091	2.9782	2.9873
105.4	0.51	0.0091	2.9835	2.9926
105.4333	0.5162	0.0223	3.0071	3.0294
105.4667	0.5225	0.0223	3.0163	3.0386
105.5	0.5221	0	3.019	3.019
105.5333	0.5297	0.0091	3.0334	3.0425
105.5667	0.5333	0.0091	3.0479	3.057
105.6	0.5369	0	3.065	3.065
105.6333	0.5369	0.0223	3.1163	3.1385
105.6667	0.5353	0	3.1873	3.1873
105.7	0.5373	0.0091	3.2162	3.2253
105.7333	0.5412	0.0091	3.2241	3.2332
105.7667	0.5468	0	3.2346	3.2346
105.8	0.5488	0.0223	3.2333	3.2556
105.8333	0.5521	0.0223	3.2425	3.2648
105.8667	0.558	0.0091	3.2557	3.2648
105.9	0.56	0	3.2622	3.2622
105.9333	0.5666	0	3.2728	3.2728
105.9667	0.5725	0.0091	3.2714	3.2806
106	0.5731	0.0223	3.2859	3.3082
106.0333	0.5833	0	3.2951	3.2951

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
106.0667	0.5886	0.0091	3.3056	3.3147
106.1	0.5926	0.0091	3.3135	3.3226
106.1333	0.5962	0.0223	3.3267	3.3489
106.1667	0.5991	0	3.3425	3.3425
106.2	0.6067	0.0091	3.3438	3.3529
106.2333	0.611	0.0091	3.3503	3.3595
106.2667	0.6136	0.0091	3.3609	3.37
106.3	0.6209	0.0091	3.3688	3.3779
106.3333	0.6271	0.0223	3.378	3.4002
106.3667	0.6284	0.0223	3.3832	3.4055
106.4	0.6354	0.0223	3.3937	3.416
106.4333	0.639	0.0091	3.4056	3.4147
106.4667	0.6446	0.0091	3.4161	3.4252
106.5	0.6472	0.0091	3.4279	3.437
106.5333	0.6535	0.0223	3.4306	3.4528
106.5667	0.6554	0.0223	3.4385	3.4607
106.6	0.664	0.0091	3.4463	3.4554
106.6333	0.666	0.0091	3.4529	3.462
106.6667	0.6679	0	3.4621	3.4621
106.7	0.6725	0	3.4687	3.4687
106.7333	0.6765	0.0223	3.4832	3.5054
106.7667	0.6814	0.0091	3.4845	3.4936
106.8	0.6841	0.0091	3.4897	3.4988
106.8333	0.6874	0.0223	3.5016	3.5238
106.8667	0.691	0.0223	3.5095	3.5317
106.9	0.6966	0.0091	3.5147	3.5238
106.9333	0.7002	0	3.5226	3.5226
106.9667	0.6999	0.0091	3.5358	3.5449
107	0.7045	0	3.5397	3.5397
107.0333	0.7078	0.0223	3.5489	3.5712
107.0667	0.7117	0.0091	3.5555	3.5646
107.1	0.7143	0.0223	3.5542	3.5764
107.1333	0.717	0	3.5686	3.5686
107.1667	0.7206	0.0223	3.5739	3.5961
107.2	0.7226	0.0091	3.5765	3.5856
107.2333	0.7269	0.0091	3.5923	3.6014
107.2667	0.7275	0.0223	3.5923	3.6146
107.3	0.7308	0.0091	3.6028	3.6119
107.3333	0.7305	0.0091	3.612	3.6211
107.3667	0.7348	0.0091	3.6199	3.629
107.4	0.7324	0.0091	3.6212	3.6303
107.4333	0.7305	0.0091	3.6265	3.6356
107.4667	0.7295	0.0223	3.6278	3.6501

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
107.5	0.7298	0.0223	3.6383	3.6606
107.5333	0.7288	0	3.641	3.641
107.5667	0.7272	0.0091	3.6488	3.658
107.6	0.7315	0	3.6502	3.6502
107.6333	0.7275	0.0223	3.6541	3.6764
107.6667	0.7278	0	3.6567	3.6567
107.7	0.7301	0.0223	3.6659	3.6882
107.7333	0.7275	0.0091	3.662	3.6711
107.7667	0.7269	0.0091	3.6725	3.6816
107.8	0.7288	0.0091	3.6712	3.6803
107.8333	0.7282	0.0091	3.6791	3.6882
107.8667	0.7285	0.0091	3.6765	3.6856
107.9	0.7272	0.0354	3.6844	3.7198
107.9333	0.7275	0.0223	3.6857	3.7079
107.9667	0.7272	0.0091	3.6857	3.6948
108	0.7282	0.0091	3.6883	3.6974
108.0333	0.7272	0.0091	3.6922	3.7013
108.0667	0.7255	0	3.6883	3.6883
108.1	0.7239	0	3.6975	3.6975
108.1333	0.7226	0.0091	3.6949	3.704
108.1667	0.7236	0	3.7028	3.7028
108.2	0.7196	0.0091	3.7041	3.7132
108.2333	0.7242	0.0091	3.7001	3.7092
108.2667	0.7219	0	3.7107	3.7107
108.3	0.7206	0.0091	3.7093	3.7184
108.3333	0.7203	0.0091	3.7146	3.7237
108.3667	0.7209	0.0091	3.7146	3.7237
108.4	0.7196	0	3.7212	3.7212
108.4333	0.7196	0.0091	3.7251	3.7342
108.4667	0.7196	0.0091	3.7225	3.7316
108.5	0.719	0.0223	3.7277	3.75
108.5333	0.718	0.0091	3.7291	3.7382
108.5667	0.7176	0.0091	3.737	3.7461
108.6	0.7163	0.0091	3.733	3.7421
108.6333	0.7137	0.0091	3.7383	3.7474
108.6667	0.7153	0.0223	3.7409	3.7631
108.7	0.7143	0.0091	3.7277	3.7368
108.7333	0.716	0.0091	3.7343	3.7434
108.7667	0.7157	0.0091	3.7409	3.75
108.8	0.7134	0.0091	3.7448	3.7539
108.8333	0.7147	0.0091	3.7435	3.7526
108.8667	0.7147	0.0091	3.7462	3.7553
108.9	0.713	0.0223	3.7462	3.7684

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
108.9333	0.7127	0.0223	3.7462	3.7684
108.9667	0.7094	0	3.7488	3.7488
109	0.7097	0.0223	3.754	3.7763
109.0333	0.7104	0.0091	3.7606	3.7697
109.0667	0.712	0	3.754	3.754
109.1	0.7084	0.0091	3.754	3.7631
109.1333	0.712	0.0091	3.7567	3.7658
109.1667	0.7078	0.0091	3.7619	3.771
109.2	0.7127	0.0091	3.7659	3.775
109.2333	0.713	0.0091	3.7646	3.7737
109.2667	0.7127	0	3.7659	3.7659
109.3	0.7127	0.0091	3.7685	3.7776
109.3333	0.7124	0.0223	3.7711	3.7934
109.3667	0.7127	0.0223	3.7698	3.7921
109.4	0.713	0	3.7764	3.7764
109.4333	0.715	0	3.7751	3.7751
109.4667	0.714	0.0223	3.7777	3.8
109.5	0.713	0.0223	3.779	3.8013
109.5333	0.712	0.0091	3.7751	3.7842
109.5667	0.7166	0	3.7764	3.7764
109.6	0.7134	0.0091	3.7882	3.7973
109.6333	0.7134	0.0091	3.7803	3.7894
109.6667	0.7134	0.0091	3.783	3.7921
109.7	0.7147	0	3.7869	3.7869
109.7333	0.715	0.0223	3.7895	3.8118
109.7667	0.7143	0.0223	3.7882	3.8105
109.8	0.715	0.0091	3.7895	3.7987
109.8333	0.716	0.0091	3.7869	3.796
109.8667	0.7166	0.0091	3.7935	3.8026
109.9	0.7173	0.0354	3.7948	3.8302
109.9333	0.7166	0.0223	3.7948	3.8171
109.9667	0.7157	0.0091	3.7922	3.8013
110	0.7153	0.0223	3.7935	3.8157
110.0333	0.7157	0.0091	3.8001	3.8092
110.0667	0.7183	0.0091	3.8014	3.8105
110.1	0.717	0.0091	3.8106	3.8197
110.1333	0.716	0.0091	3.8093	3.8184
110.1667	0.7163	0	3.804	3.804
110.2	0.7193	0.0091	3.8066	3.8157
110.2333	0.7163	0.0223	3.8027	3.825
110.2667	0.719	0.0223	3.8145	3.8368
110.3	0.717	0	3.8093	3.8093
110.3333	0.719	0.0091	3.8132	3.8223

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
110.3667	0.7173	0.0091	3.8158	3.825
110.4	0.718	0.0223	3.8158	3.8381
110.4333	0.719	0.0091	3.8119	3.821
110.4667	0.7186	0.0091	3.8185	3.8276
110.5	0.719	0.0091	3.8145	3.8236
110.5333	0.7193	0.0091	3.8145	3.8236
110.5667	0.7216	0.0091	3.8211	3.8302
110.6	0.7206	0.0223	3.8251	3.8473
110.6333	0.718	0.0223	3.8198	3.842
110.6667	0.7209	0	3.8224	3.8224
110.7	0.7206	0.0091	3.8264	3.8355
110.7333	0.7176	0.0354	3.8277	3.8631
110.7667	0.7219	0	3.8251	3.8251
110.8	0.7193	0.0091	3.8264	3.8355
110.8333	0.7216	0.0091	3.8329	3.842
110.8667	0.7206	0.0223	3.8303	3.8526
110.9	0.7193	0.0354	3.8303	3.8657
110.9333	0.7213	0.0091	3.8329	3.842
110.9667	0.7245	0.0091	3.8329	3.842
111	0.7222	0.0091	3.8329	3.842
111.0333	0.7236	0.0223	3.829	3.8513
111.0667	0.7216	0.0223	3.8356	3.8578
111.1	0.7219	0.0223	3.8356	3.8578
111.1333	0.7222	0	3.8408	3.8408
111.1667	0.7219	0.0354	3.8448	3.8802
111.2	0.7219	0.0223	3.8435	3.8657
111.2333	0.719	0	3.8408	3.8408
111.2667	0.7216	0.0223	3.8448	3.867
111.3	0.7209	0	3.8421	3.8421
111.3333	0.7222	0	3.8421	3.8421
111.3667	0.7226	0.0223	3.8435	3.8657
111.4	0.7239	0.0091	3.8474	3.8565
111.4333	0.7255	0	3.85	3.85
111.4667	0.7249	0.0091	3.8514	3.8605
111.5	0.7219	0.0223	3.8514	3.8736
111.5333	0.7242	0.0223	3.8619	3.8841
111.5667	0.7229	0.0091	3.8579	3.867
111.6	0.7245	0.0091	3.8527	3.8618
111.6333	0.7239	0.0223	3.854	3.8762
111.6667	0.7232	0.0223	3.8619	3.8841
111.7	0.7249	0.0354	3.8632	3.8986
111.7333	0.7245	0.0091	3.8592	3.8683
111.7667	0.7249	0	3.8566	3.8566

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
111.8	0.7272	0.0223	3.8658	3.8881
111.8333	0.7259	0.0223	3.8645	3.8868
111.8667	0.7245	0	3.8619	3.8619
111.9	0.7236	0.0223	3.8592	3.8815
111.9333	0.7245	0.0223	3.8632	3.8854
111.9667	0.7219	0.0091	3.8606	3.8697
112	0.7278	0	3.8645	3.8645
112.0333	0.7255	0	3.8684	3.8684
112.0667	0.7222	0.0091	3.8698	3.8789
112.1	0.7236	0	3.8724	3.8724
112.1333	0.7249	0	3.8711	3.8711
112.1667	0.7255	0.0223	3.8698	3.892
112.2	0.7226	0.0091	3.8724	3.8815
112.2333	0.7265	0.0091	3.8711	3.8802
112.2667	0.7242	0.0223	3.8724	3.8946
112.3	0.7239	0.0091	3.8737	3.8828
112.3333	0.7265	0.0091	3.875	3.8841
112.3667	0.7259	0.0091	3.8777	3.8868
112.4	0.7275	0.0091	3.875	3.8841
112.4333	0.7278	0.0091	3.875	3.8841
112.4667	0.7272	0.0091	3.875	3.8841
112.5	0.7278	0.0091	3.879	3.8881
112.5333	0.7262	0	3.8763	3.8763
112.5667	0.7275	0.0223	3.879	3.9012
112.6	0.7282	0.0223	3.8763	3.8986
112.6333	0.7298	0.0091	3.879	3.8881
112.6667	0.7259	0.0223	3.879	3.9012
112.7	0.7255	0.0223	3.879	3.9012
112.7333	0.7262	0.0091	3.8803	3.8894
112.7667	0.7278	0	3.8829	3.8829
112.8	0.7269	0.0223	3.8908	3.9131
112.8333	0.7272	0.0091	3.8803	3.8894
112.8667	0.7278	0.0223	3.8869	3.9091
112.9	0.7298	0.0091	3.8882	3.8973
112.9333	0.7278	0.0091	3.8895	3.8986
112.9667	0.7278	0.0091	3.8895	3.8986
113	0.7298	0.0223	3.8921	3.9144
113.0333	0.7278	0	3.8921	3.8921
113.0667	0.7278	0.0223	3.8908	3.9131
113.1	0.7259	0.0091	3.8961	3.9052
113.1333	0.7288	0.0091	3.8947	3.9039
113.1667	0.7288	0.0091	3.8921	3.9012
113.2	0.7259	0	3.9	3.9

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
113.2333	0.7292	0.0223	3.8947	3.917
113.2667	0.7292	0	3.8947	3.8947
113.3	0.7311	0	3.8947	3.8947
113.3333	0.7278	0.0223	3.8961	3.9183
113.3667	0.7298	0.0091	3.8934	3.9025
113.4	0.7272	0.0223	3.9	3.9223
113.4333	0.7318	0.0091	3.8961	3.9052
113.4667	0.7311	0.0223	3.8961	3.9183
113.5	0.7301	0.0091	3.9053	3.9144
113.5333	0.7285	0.0091	3.9	3.9091
113.5667	0.7321	0.0091	3.8987	3.9078
113.6	0.7288	0.0091	3.9013	3.9104
113.6333	0.7308	0.0091	3.9026	3.9117
113.6667	0.7282	0.0091	3.9013	3.9104
113.7	0.7292	0.0223	3.9079	3.9302
113.7333	0.7315	0.0091	3.904	3.9131
113.7667	0.7295	0.0091	3.904	3.9131
113.8	0.7285	0.0091	3.8974	3.9065
113.8333	0.7301	0.0091	3.9013	3.9104
113.8667	0.7288	0.0223	3.9053	3.9275
113.9	0.7308	0.0223	3.9079	3.9302
113.9333	0.7292	0	3.9026	3.9026
113.9667	0.7301	0.0091	3.9053	3.9144
114	0.7305	0	3.9145	3.9145
114.0333	0.7282	0.0091	3.9158	3.9249
114.0667	0.7288	0.0223	3.9079	3.9302
114.1	0.7298	0.0223	3.9026	3.9249
114.1333	0.7331	0.0091	3.9145	3.9236
114.1667	0.7308	0.0091	3.9145	3.9236
114.2	0.7328	0.0091	3.9118	3.9209
114.2333	0.7311	0	3.9105	3.9105
114.2667	0.7301	0.0091	3.9145	3.9236
114.3	0.7321	0.0091	3.9066	3.9157
114.3333	0.7288	0.0223	3.9118	3.9341
114.3667	0.7321	0.0223	3.9158	3.938
114.4	0.7331	0	3.9105	3.9105
114.4333	0.7318	0.0091	3.9145	3.9236
114.4667	0.7305	0.0091	3.9158	3.9249
114.5	0.7305	0	3.9118	3.9118
114.5333	0.7301	0.0223	3.921	3.9433
114.5667	0.7338	0.0091	3.9118	3.9209
114.6	0.7308	0.0091	3.9184	3.9275
114.6333	0.7308	0.0091	3.9132	3.9223

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
114.6667	0.7331	0.0091	3.9197	3.9288
114.7	0.7315	0.0091	3.9145	3.9236
114.7333	0.7308	0.0091	3.9158	3.9249
114.7667	0.7298	0.0223	3.9171	3.9394
114.8	0.7318	0.0223	3.921	3.9433
114.8333	0.7315	0.0223	3.9158	3.938
114.8667	0.7301	0.0223	3.9145	3.9367
114.9	0.7295	0.0223	3.925	3.9472
114.9333	0.7311	0.0091	3.9197	3.9288
114.9667	0.7285	0.0223	3.9132	3.9354
115	0.7301	0.0091	3.9145	3.9236
115.0333	0.7318	0.0091	3.9184	3.9275
115.0667	0.7301	0	3.9237	3.9237
115.1	0.7324	0.0091	3.9184	3.9275
115.1333	0.7315	0.0091	3.9158	3.9249
115.1667	0.7295	0.0223	3.9197	3.942
115.2	0.7288	0.0091	3.9184	3.9275
115.2333	0.7288	0	3.9158	3.9158
115.2667	0.7321	0.0091	3.9224	3.9315
115.3	0.7331	0.0091	3.9184	3.9275
115.3333	0.7315	0.0223	3.9197	3.942
115.3667	0.7318	0.0091	3.925	3.9341
115.4	0.7308	0.0091	3.9171	3.9262
115.4333	0.7292	0	3.9224	3.9224
115.4667	0.7292	0.0223	3.9237	3.9459
115.5	0.7318	0.0091	3.925	3.9341
115.5333	0.7301	0.0223	3.9237	3.9459
115.5667	0.7315	0.0091	3.921	3.9302
115.6	0.7278	0.0091	3.921	3.9302
115.6333	0.7288	0.0091	3.921	3.9302
115.6667	0.7278	0.0223	3.9158	3.938
115.7	0.7282	0.0091	3.9224	3.9315
115.7333	0.7301	0	3.9197	3.9197
115.7667	0.7282	0.0091	3.9105	3.9196
115.8	0.7282	0.0223	3.9184	3.9407
115.8333	0.7288	0	3.9197	3.9197
115.8667	0.7262	0.0091	3.9171	3.9262
115.9	0.7272	0.0091	3.9171	3.9262
115.9333	0.7272	0.0223	3.9145	3.9367
115.9667	0.7262	0	3.9263	3.9263
116	0.7278	0.0091	3.9145	3.9236
116.0333	0.7255	0.0091	3.9184	3.9275
116.0667	0.7239	0.0223	3.9197	3.942



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
116.1	0.7236	0.0091	3.9158	3.9249
116.1333	0.7242	0.0223	3.9158	3.938
116.1667	0.7252	0.0091	3.9197	3.9288
116.2	0.7245	0.0091	3.9184	3.9275
116.2333	0.7245	0.0223	3.9171	3.9394
116.2667	0.7236	0.0091	3.9079	3.917
116.3	0.7259	0.0091	3.9197	3.9288
116.3333	0.7255	0	3.9171	3.9171
116.3667	0.7245	0.0091	3.9118	3.9209
116.4	0.7249	0	3.9171	3.9171
116.4333	0.7222	0.0091	3.9132	3.9223
116.4667	0.7245	0.0223	3.9145	3.9367
116.5	0.7229	0	3.9132	3.9132
116.5333	0.7232	0.0223	3.9145	3.9367
116.5667	0.7209	0.0091	3.9171	3.9262
116.6	0.7239	0.0091	3.9118	3.9209
116.6333	0.7245	0.0354	3.9197	3.9551
116.6667	0.7196	0.0091	3.9171	3.9262
116.7	0.7222	0.0091	3.9158	3.9249
116.7333	0.7213	0	3.9145	3.9145
116.7667	0.719	0.0091	3.9171	3.9262
116.8	0.7206	0.0223	3.9118	3.9341
116.8333	0.7209	0.0091	3.9132	3.9223
116.8667	0.7196	0.0091	3.9145	3.9236
116.9	0.7199	0.0091	3.9092	3.9183
116.9333	0.7196	0.0091	3.9158	3.9249
116.9667	0.7176	0.0091	3.9066	3.9157
117	0.719	0	3.9145	3.9145
117.0333	0.7193	0.0091	3.9145	3.9236
117.0667	0.7196	0.0091	3.9118	3.9209
117.1	0.717	0.0091	3.9118	3.9209
117.1333	0.7213	0.0091	3.9145	3.9236
117.1667	0.7183	0.0091	3.9092	3.9183
117.2	0.7193	0	3.9118	3.9118
117.2333	0.717	0	3.9079	3.9079
117.2667	0.717	0	3.9066	3.9066
117.3	0.7206	0.0223	3.9053	3.9275
117.3333	0.7163	0.0091	3.9092	3.9183
117.3667	0.717	0.0091	3.9092	3.9183
117.4	0.7183	0.0091	3.9053	3.9144
117.4333	0.7183	0.0223	3.9079	3.9302
117.4667	0.717	0.0091	3.9	3.9091
117.5	0.7193	0.0223	3.9	3.9223

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
117.5333	0.7173	0	3.904	3.904
117.5667	0.718	0.0091	3.9026	3.9117
117.6	0.713	0.0223	3.904	3.9262
117.6333	0.7157	0.0091	3.9	3.9091
117.6667	0.7157	0.0091	3.9	3.9091
117.7	0.7143	0.0223	3.9079	3.9302
117.7333	0.713	0.0091	3.9013	3.9104
117.7667	0.712	0.0091	3.8987	3.9078
117.8	0.715	0.0223	3.904	3.9262
117.8333	0.7163	0.0091	3.9013	3.9104
117.8667	0.717	0.0223	3.9013	3.9236
117.9	0.714	0	3.8987	3.8987
117.9333	0.714	0.0091	3.9026	3.9117
117.9667	0.7137	0	3.9079	3.9079
118	0.714	0.0091	3.9118	3.9209
118.0333	0.7157	0.0091	3.9053	3.9144
118.0667	0.7137	0.0091	3.9013	3.9104
118.1	0.7163	0.0091	3.9013	3.9104
118.1333	0.7137	0.0091	3.9	3.9091
118.1667	0.7111	0.0091	3.9	3.9091
118.2	0.7127	0.0091	3.9026	3.9117
118.2333	0.7143	0	3.8987	3.8987
118.2667	0.715	0	3.8987	3.8987
118.3	0.7157	0.0091	3.8961	3.9052
118.3333	0.7104	0.0091	3.8987	3.9078
118.3667	0.712	0	3.9013	3.9013
118.4	0.7107	0.0223	3.9	3.9223
118.4333	0.717	0.0091	3.904	3.9131
118.4667	0.7137	0.0223	3.9	3.9223
118.5	0.7104	0.0091	3.9013	3.9104
118.5333	0.715	0.0223	3.8908	3.9131
118.5667	0.7107	0.0091	3.8908	3.8999
118.6	0.7111	0.0091	3.8921	3.9012
118.6333	0.7117	0	3.8921	3.8921
118.6667	0.713	0	3.8947	3.8947
118.7	0.7081	0.0223	3.8882	3.9104
118.7333	0.712	0.0223	3.8921	3.9144
118.7667	0.7117	0.0223	3.8921	3.9144
118.8	0.7078	0.0091	3.8855	3.8946
118.8333	0.7087	0.0091	3.8921	3.9012
118.8667	0.7111	0.0091	3.8934	3.9025
118.9	0.7134	0	3.8842	3.8842
118.9333	0.7091	0.0091	3.8921	3.9012

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
118.9667	0.7097	0.0091	3.8869	3.896
119	0.7091	0.0223	3.8895	3.9117
119.0333	0.7107	0.0091	3.8934	3.9025
119.0667	0.7097	0.0354	3.8908	3.9262
119.1	0.7114	0.0091	3.8869	3.896
119.1333	0.7097	0	3.8842	3.8842
119.1667	0.7094	0.0091	3.8882	3.8973
119.2	0.7124	0.0223	3.8829	3.9052
119.2333	0.7117	0	3.8869	3.8869
119.2667	0.7111	0.0223	3.8829	3.9052
119.3	0.7111	0.0091	3.8855	3.8946
119.3333	0.7143	0.0091	3.8882	3.8973
119.3667	0.713	0.0091	3.8882	3.8973
119.4	0.7114	0.0223	3.8895	3.9117
119.4333	0.7097	0.0091	3.8908	3.8999
119.4667	0.7117	0.0223	3.8895	3.9117
119.5	0.7127	0.0354	3.8908	3.9262
119.5333	0.713	0.0091	3.8882	3.8973
119.5667	0.7087	0	3.8895	3.8895
119.6	0.7124	0.0223	3.8842	3.9065
119.6333	0.714	0.0091	3.8842	3.8933
119.6667	0.7101	0.0091	3.8869	3.896
119.7	0.7117	0.0091	3.8882	3.8973
119.7333	0.7117	0.0091	3.8895	3.8986
119.7667	0.7117	0	3.8869	3.8869
119.8	0.712	0.0091	3.8895	3.8986
119.8333	0.7124	0.0091	3.8803	3.8894
119.8667	0.712	0.0091	3.8816	3.8907
119.9	0.712	0.0091	3.8855	3.8946
119.9333	0.7104	0.0091	3.8829	3.892
119.9667	0.7114	0.0091	3.8829	3.892
120	0.7134	0.0091	3.8829	3.892
120.0333	0.7111	0	3.8855	3.8855
120.0667	0.7101	0.0223	3.8895	3.9117
120.1	0.7091	0.0091	3.8842	3.8933
120.1333	0.7107	0.0091	3.8829	3.892
120.1667	0.7117	0.0091	3.8855	3.8946
120.2	0.7127	0.0091	3.8829	3.892
120.2333	0.7107	0.0091	3.8829	3.892
120.2667	0.7137	0	3.8908	3.8908
120.3	0.7137	0.0223	3.8855	3.9078
120.3333	0.7101	0.0223	3.8908	3.9131
120.3667	0.7127	0.0091	3.8882	3.8973

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
120.4	0.7107	0.0223	3.8895	3.9117
120.4333	0.7091	0.0091	3.8855	3.8946
120.4667	0.713	0.0091	3.8842	3.8933
120.5	0.7111	0.0223	3.8829	3.9052
120.5333	0.7111	0.0223	3.8803	3.9025
120.5667	0.7091	0.0091	3.8829	3.892
120.6	0.7114	0.0091	3.8882	3.8973
120.6333	0.7111	0.0091	3.8803	3.8894
120.6667	0.7143	0	3.8882	3.8882
120.7	0.715	0.0091	3.8855	3.8946
120.7333	0.7147	0.0091	3.8882	3.8973
120.7667	0.7127	0.0091	3.8869	3.896
120.8	0.714	0.0091	3.8829	3.892
120.8333	0.714	0.0091	3.8882	3.8973
120.8667	0.7143	0.0091	3.8882	3.8973
120.9	0.716	0.0091	3.8882	3.8973
120.9333	0.7163	0.0091	3.8869	3.896
120.9667	0.715	0.0091	3.8895	3.8986
121	0.714	0.0223	3.8869	3.9091
121.0333	0.7147	0.0091	3.8895	3.8986
121.0667	0.7166	0	3.8869	3.8869
121.1	0.718	0.0091	3.8777	3.8868
121.1333	0.7153	0.0223	3.8842	3.9065
121.1667	0.715	0.0091	3.8855	3.8946
121.2	0.7124	0.0091	3.8882	3.8973
121.2333	0.715	0.0223	3.8855	3.9078
121.2667	0.713	0	3.8895	3.8895
121.3	0.7147	0	3.8855	3.8855
121.3333	0.7196	0.0091	3.8842	3.8933
121.3667	0.715	0	3.8869	3.8869
121.4	0.7157	0	3.8855	3.8855
121.4333	0.714	0.0223	3.8882	3.9104
121.4667	0.7173	0.0091	3.8842	3.8933
121.5	0.7183	0.0223	3.8829	3.9052
121.5333	0.716	0.0091	3.8829	3.892
121.5667	0.7176	0	3.8855	3.8855
121.6	0.7157	0.0091	3.8842	3.8933
121.6333	0.7143	0	3.8869	3.8869
121.6667	0.7186	0.0354	3.8882	3.9236
121.7	0.7166	0.0223	3.8829	3.9052
121.7333	0.7173	0.0091	3.8816	3.8907
121.7667	0.7186	0.0091	3.8882	3.8973
121.8	0.7173	0.0223	3.8842	3.9065

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
121.8333	0.7199	0.0091	3.8869	3.896
121.8667	0.7157	0.0091	3.8855	3.8946
121.9	0.7176	0	3.8842	3.8842
121.9333	0.7196	0	3.8829	3.8829
121.9667	0.7186	0.0091	3.8842	3.8933
122	0.7157	0	3.8855	3.8855
122.0333	0.7186	0.0223	3.8855	3.9078
122.0667	0.719	0.0091	3.8882	3.8973
122.1	0.7193	0.0091	3.8855	3.8946
122.1333	0.7196	0.0223	3.8908	3.9131
122.1667	0.7213	0.0223	3.8855	3.9078
122.2	0.7196	0	3.8961	3.8961
122.2333	0.7176	0.0091	3.8974	3.9065
122.2667	0.7196	0.0091	3.8934	3.9025
122.3	0.7206	0	3.8908	3.8908
122.3333	0.7196	0.0091	3.8961	3.9052
122.3667	0.7199	0.0223	3.8921	3.9144
122.4	0.719	0.0091	3.8961	3.9052
122.4333	0.7193	0.0091	3.8974	3.9065
122.4667	0.7186	0	3.8947	3.8947
122.5	0.7219	0.0091	3.8921	3.9012
122.5333	0.7196	0.0091	3.9026	3.9117
122.5667	0.7186	0.0223	3.8961	3.9183
122.6	0.718	0.0091	3.8934	3.9025
122.6333	0.7186	0.0091	3.8947	3.9039
122.6667	0.7176	0.0091	3.8895	3.8986
122.7	0.7226	0.0223	3.8934	3.9157
122.7333	0.7183	0.0091	3.8961	3.9052
122.7667	0.7196	0	3.8934	3.8934
122.8	0.7209	0	3.8921	3.8921
122.8333	0.7216	0.0223	3.8961	3.9183
122.8667	0.7229	0.0223	3.8921	3.9144
122.9	0.7219	0	3.8934	3.8934
122.9333	0.7213	0.0223	3.8882	3.9104
122.9667	0.7229	0.0091	3.8908	3.8999
123	0.7183	0.0091	3.8961	3.9052
123.0333	0.7219	0.0091	3.8987	3.9078
123.0667	0.7203	0.0091	3.8974	3.9065
123.1	0.7229	0.0091	3.8934	3.9025
123.1333	0.7216	0.0223	3.8947	3.917
123.1667	0.7226	0.0091	3.8974	3.9065
123.2	0.7199	0.0223	3.8934	3.9157
123.2333	0.7199	0	3.8961	3.8961

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
123.2667	0.7199	0.0091	3.8987	3.9078
123.3	0.7209	0.0091	3.8974	3.9065
123.3333	0.7229	0.0091	3.9026	3.9117
123.3667	0.7216	0.0091	3.9053	3.9144
123.4	0.7216	0.0091	3.9013	3.9104
123.4333	0.7229	0.0091	3.8987	3.9078
123.4667	0.7219	0.0091	3.8947	3.9039
123.5	0.7206	0.0091	3.904	3.9131
123.5333	0.7213	0	3.9013	3.9013
123.5667	0.7219	0.0091	3.9	3.9091
123.6	0.7229	0	3.9	3.9
123.6333	0.7232	0.0091	3.8974	3.9065
123.6667	0.7219	0.0091	3.8961	3.9052
123.7	0.7219	0.0091	3.9053	3.9144
123.7333	0.7206	0.0223	3.9013	3.9236
123.7667	0.7219	0.0223	3.8974	3.9196
123.8	0.7219	0.0091	3.9013	3.9104
123.8333	0.7236	0.0091	3.9013	3.9104
123.8667	0.7245	0.0223	3.9053	3.9275
123.9	0.7236	0.0223	3.904	3.9262
123.9333	0.7229	0.0091	3.9053	3.9144
123.9667	0.7249	0.0091	3.9	3.9091
124	0.7226	0	3.8974	3.8974
124.0333	0.7216	0.0091	3.9026	3.9117
124.0667	0.7236	0.0223	3.9	3.9223
124.1	0.7239	0	3.8987	3.8987
124.1333	0.7213	0.0223	3.8947	3.917
124.1667	0.7232	0.0091	3.8961	3.9052
124.2	0.7222	0.0091	3.8934	3.9025
124.2333	0.7236	0.0091	3.8987	3.9078
124.2667	0.7245	0	3.8961	3.8961
124.3	0.7222	0.0091	3.8947	3.9039
124.3333	0.7226	0.0223	3.8921	3.9144
124.3667	0.7242	0	3.9	3.9
124.4	0.7249	0.0223	3.8947	3.917
124.4333	0.7249	0.0223	3.8961	3.9183
124.4667	0.7216	0	3.8934	3.8934
124.5	0.7219	0	3.8947	3.8947
124.5333	0.7252	0.0091	3.9026	3.9117
124.5667	0.7222	0.0223	3.9066	3.9288
124.6	0.7265	0.0091	3.9026	3.9117
124.6333	0.7255	0.0091	3.9013	3.9104
124.6667	0.7252	0	3.9	3.9

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
124.7	0.7229	0.0223	3.9066	3.9288
124.7333	0.7229	0.0091	3.9053	3.9144
124.7667	0.7226	0.0091	3.8987	3.9078
124.8	0.7265	0.0223	3.8987	3.9209
124.8333	0.7252	0.0223	3.8934	3.9157
124.8667	0.7209	0.0091	3.8947	3.9039
124.9	0.7219	0.0091	3.8947	3.9039
124.9333	0.7239	0	3.8987	3.8987
124.9667	0.7269	0.0091	3.8947	3.9039
125	0.7275	0	3.9	3.9
125.0333	0.7255	0.0091	3.9092	3.9183
125.0667	0.7232	0.0091	3.9026	3.9117
125.1	0.7249	0.0223	3.8987	3.9209
125.1333	0.7222	0	3.9	3.9
125.1667	0.7269	0	3.8987	3.8987
125.2	0.7262	0.0223	3.8974	3.9196
125.2333	0.7229	0.0223	3.8987	3.9209
125.2667	0.7232	0.0223	3.9	3.9223
125.3	0.7245	0.0091	3.8947	3.9039
125.3333	0.7219	0	3.8974	3.8974
125.3667	0.7239	0	3.9013	3.9013
125.4	0.7252	0.0223	3.8987	3.9209
125.4333	0.7262	0.0091	3.8987	3.9078
125.4667	0.7216	0.0091	3.9013	3.9104
125.5	0.7236	0.0091	3.8987	3.9078
125.5333	0.7245	0.0091	3.9053	3.9144
125.5667	0.7259	0.0354	3.9013	3.9367
125.6	0.7255	0.0223	3.904	3.9262
125.6333	0.7249	0.0091	3.9	3.9091
125.6667	0.7245	0	3.904	3.904
125.7	0.7249	0.0091	3.8947	3.9039
125.7333	0.7226	0.0091	3.8921	3.9012
125.7667	0.7259	0.0223	3.9	3.9223
125.8	0.7242	0.0091	3.8987	3.9078
125.8333	0.7239	0.0091	3.8934	3.9025
125.8667	0.7239	0	3.8934	3.8934
125.9	0.7255	0.0091	3.8961	3.9052
125.9333	0.7236	0.0223	3.8987	3.9209
125.9667	0.7272	0.0091	3.9	3.9091
126	0.7242	0.0091	3.8974	3.9065
126.0333	0.7236	0.0223	3.9026	3.9249
126.0667	0.7275	0.0091	3.904	3.9131
126.1	0.7255	0.0091	3.8947	3.9039

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
126.1333	0.7229	0	3.8987	3.8987
126.1667	0.7272	0.0091	3.8947	3.9039
126.2	0.7265	0.0091	3.8974	3.9065
126.2333	0.7259	0	3.8974	3.8974
126.2667	0.7229	0.0091	3.8987	3.9078
126.3	0.7239	0.0223	3.8974	3.9196
126.3333	0.7265	0.0223	3.9013	3.9236
126.3667	0.7262	0.0091	3.9026	3.9117
126.4	0.7278	0.0091	3.8974	3.9065
126.4333	0.7275	0.0091	3.8987	3.9078
126.4667	0.7239	0.0091	3.8947	3.9039
126.5	0.7239	0	3.9053	3.9053
126.5333	0.7236	0.0091	3.9079	3.917
126.5667	0.7269	0.0091	3.9013	3.9104
126.6	0.7275	0.0223	3.8961	3.9183
126.6333	0.7265	0.0091	3.9105	3.9196
126.6667	0.7255	0.0091	3.9026	3.9117
126.7	0.7249	0	3.9013	3.9013
126.7333	0.7236	0	3.904	3.904
126.7667	0.7255	0	3.9053	3.9053
126.8	0.7259	0.0223	3.9026	3.9249
126.8333	0.7272	0	3.904	3.904
126.8667	0.7259	0.0091	3.9026	3.9117
126.9	0.7278	0	3.9	3.9
126.9333	0.7249	0.0091	3.9079	3.917
126.9667	0.7269	0.0223	3.904	3.9262
127	0.7245	0.0091	3.8987	3.9078
127.0333	0.7259	0	3.9026	3.9026
127.0667	0.7249	0.0091	3.9013	3.9104
127.1	0.7285	0.0223	3.904	3.9262
127.1333	0.7269	0.0223	3.9013	3.9236
127.1667	0.7236	0	3.9118	3.9118
127.2	0.7245	0	3.9092	3.9092
127.2333	0.7262	0.0223	3.8987	3.9209
127.2667	0.7242	0	3.9079	3.9079
127.3	0.7275	0.0223	3.9079	3.9302
127.3333	0.7278	0	3.8961	3.8961
127.3667	0.7255	0.0091	3.904	3.9131
127.4	0.7278	0.0223	3.9079	3.9302
127.4333	0.7272	0	3.9053	3.9053
127.4667	0.7265	0.0091	3.9053	3.9144
127.5	0.7259	0.0223	3.9118	3.9341
127.5333	0.7255	0	3.9105	3.9105



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
127.5667	0.7249	0	3.9145	3.9145
127.6	0.7259	0	3.9145	3.9145
127.6333	0.7236	0.0223	3.9105	3.9328
127.6667	0.7259	0.0091	3.9092	3.9183
127.7	0.7278	0	3.9105	3.9105
127.7333	0.7282	0.0223	3.9145	3.9367
127.7667	0.7245	0.0091	3.9171	3.9262
127.8	0.7278	0.0091	3.9079	3.917
127.8333	0.7269	0.0091	3.9118	3.9209
127.8667	0.7252	0	3.9079	3.9079
127.9	0.7288	0	3.9105	3.9105
127.9333	0.7236	0.0091	3.9132	3.9223
127.9667	0.7255	0	3.9118	3.9118
128	0.7262	0.0223	3.9158	3.938
128.0333	0.7275	0.0091	3.9132	3.9223
128.0667	0.7275	0.0091	3.9105	3.9196
128.1	0.7252	0.0091	3.9105	3.9196
128.1333	0.7265	0.0091	3.9105	3.9196
128.1667	0.7262	0.0091	3.9079	3.917
128.2	0.7242	0	3.9145	3.9145
128.2333	0.7272	0.0223	3.9132	3.9354
128.2667	0.7239	0.0091	3.9158	3.9249
128.3	0.7255	0	3.9118	3.9118
128.3333	0.7232	0.0223	3.9184	3.9407
128.3667	0.7259	0.0091	3.9066	3.9157
128.4	0.7242	0.0091	3.9079	3.917
128.4333	0.7222	0.0091	3.9158	3.9249
128.4667	0.7232	0.0091	3.9105	3.9196
128.5	0.7262	0.0091	3.9079	3.917
128.5333	0.7265	0.0091	3.9158	3.9249
128.5667	0.7272	0	3.9118	3.9118
128.6	0.7272	0.0091	3.9145	3.9236
128.6333	0.7259	0.0091	3.9092	3.9183
128.6667	0.7275	0.0091	3.9118	3.9209
128.7	0.7275	0.0091	3.9184	3.9275
128.7333	0.7285	0.0223	3.9092	3.9315
128.7667	0.7252	0.0223	3.9118	3.9341
128.8	0.7255	0.0091	3.9092	3.9183
128.8333	0.7265	0.0091	3.9079	3.917
128.8667	0.7255	0	3.9092	3.9092
128.9	0.7262	0.0091	3.9092	3.9183
128.9333	0.7259	0.0091	3.9158	3.9249
128.9667	0.7249	0.0223	3.9132	3.9354

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
129	0.7269	0	3.9118	3.9118
129.0333	0.7242	0.0091	3.9132	3.9223
129.0667	0.7269	0.0091	3.9118	3.9209
129.1	0.7245	0.0091	3.9145	3.9236
129.1333	0.7236	0.0223	3.9105	3.9328
129.1667	0.7252	0	3.9079	3.9079
129.2	0.7255	0.0223	3.9079	3.9302
129.2333	0.7292	0.0091	3.9092	3.9183
129.2667	0.7265	0.0223	3.9118	3.9341
129.3	0.7245	0.0223	3.9053	3.9275
129.3333	0.7272	0.0091	3.9105	3.9196
129.3667	0.7236	0	3.9118	3.9118
129.4	0.7265	0.0091	3.9118	3.9209
129.4333	0.7275	0.0223	3.9145	3.9367
129.4667	0.7265	0.0091	3.9092	3.9183
129.5	0.7259	0.0091	3.9118	3.9209
129.5333	0.7288	0.0091	3.9066	3.9157
129.5667	0.7265	0.0091	3.9079	3.917
129.6	0.7265	0.0091	3.9066	3.9157
129.6333	0.7259	0.0223	3.9118	3.9341
129.6667	0.7269	0.0091	3.9132	3.9223
129.7	0.7259	0.0091	3.9171	3.9262
129.7333	0.7252	0.0091	3.9105	3.9196
129.7667	0.7278	0.0091	3.9105	3.9196
129.8	0.7272	0.0091	3.9132	3.9223
129.8333	0.7278	0.0091	3.9026	3.9117
129.8667	0.7259	0.0223	3.9092	3.9315
129.9	0.7275	0.0091	3.9092	3.9183
129.9333	0.7269	0.0091	3.904	3.9131
129.9667	0.7278	0.0091	3.9092	3.9183
130	0.7265	0.0091	3.9132	3.9223
130.0333	0.7259	0.0091	3.9092	3.9183
130.0667	0.7278	0.0091	3.9092	3.9183
130.1	0.7265	0.0223	3.9132	3.9354
130.1333	0.7252	0.0223	3.9118	3.9341
130.1667	0.7259	0.0091	3.9105	3.9196
130.2	0.7265	0	3.9092	3.9092
130.2333	0.7265	0.0091	3.9079	3.917
130.2667	0.7245	0	3.9118	3.9118
130.3	0.7262	0.0091	3.9145	3.9236
130.3333	0.7288	0.0091	3.9092	3.9183
130.3667	0.7249	0.0091	3.9079	3.917
130.4	0.7292	0	3.9079	3.9079

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
130.4333	0.7272	0	3.9	3.9
130.4667	0.7249	0	3.9092	3.9092
130.5	0.7285	0.0091	3.9026	3.9117
130.5333	0.7262	0	3.9066	3.9066
130.5667	0.7269	0.0091	3.9118	3.9209
130.6	0.7275	0.0223	3.9105	3.9328
130.6333	0.7282	0.0091	3.9132	3.9223
130.6667	0.7262	0.0091	3.9066	3.9157
130.7	0.7315	0	3.9079	3.9079
130.7333	0.7269	0.0091	3.9118	3.9209
130.7667	0.7295	0.0091	3.9079	3.917
130.8	0.7278	0.0091	3.9066	3.9157
130.8333	0.7259	0.0091	3.9145	3.9236
130.8667	0.7278	0	3.9132	3.9132
130.9	0.7272	0.0091	3.9118	3.9209
130.9333	0.7252	0.0091	3.9145	3.9236
130.9667	0.7252	0	3.9184	3.9184
131	0.7278	0.0091	3.9184	3.9275
131.0333	0.7252	0.0091	3.9171	3.9262
131.0667	0.7265	0.0223	3.9158	3.938
131.1	0.7272	0.0091	3.9158	3.9249
131.1333	0.7269	0	3.9158	3.9158
131.1667	0.7288	0.0091	3.9171	3.9262
131.2	0.7288	0.0091	3.921	3.9302
131.2333	0.7278	0.0223	3.9184	3.9407
131.2667	0.7249	0.0354	3.9197	3.9551
131.3	0.7278	0.0091	3.9145	3.9236
131.3333	0.7282	0	3.9145	3.9145
131.3667	0.7301	0	3.921	3.921
131.4	0.7242	0	3.9132	3.9132
131.4333	0.7259	0.0091	3.9158	3.9249
131.4667	0.7278	0.0354	3.9171	3.9525
131.5	0.7245	0.0091	3.9145	3.9236
131.5333	0.7269	0.0091	3.9224	3.9315
131.5667	0.7288	0.0091	3.9158	3.9249
131.6	0.7288	0.0091	3.9184	3.9275
131.6333	0.7305	0	3.9171	3.9171
131.6667	0.7262	0.0091	3.9184	3.9275
131.7	0.7272	0.0223	3.9145	3.9367
131.7333	0.7295	0	3.9158	3.9158
131.7667	0.7252	0.0091	3.9171	3.9262
131.8	0.7288	0	3.9184	3.9184
131.8333	0.7252	0.0091	3.9145	3.9236

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
131.8667	0.7245	0	3.9171	3.9171
131.9	0.7239	0.0091	3.9184	3.9275
131.9333	0.7249	0	3.9118	3.9118
131.9667	0.7265	0.0091	3.9237	3.9328
132	0.7282	0	3.9171	3.9171
132.0333	0.7288	0	3.9184	3.9184
132.0667	0.7272	0.0091	3.9197	3.9288
132.1	0.7292	0.0091	3.9145	3.9236
132.1333	0.7288	0.0091	3.9118	3.9209
132.1667	0.7255	0.0091	3.9197	3.9288
132.2	0.7259	0.0223	3.9145	3.9367
132.2333	0.7288	0.0091	3.9105	3.9196
132.2667	0.7295	0.0091	3.9132	3.9223
132.3	0.7278	0	3.921	3.921
132.3333	0.7255	0.0091	3.9105	3.9196
132.3667	0.7232	0	3.9224	3.9224
132.4	0.7265	0	3.9224	3.9224
132.4333	0.7275	0	3.921	3.921
132.4667	0.7272	0.0223	3.921	3.9433
132.5	0.7275	0.0223	3.9145	3.9367
132.5333	0.7265	0.0091	3.9132	3.9223
132.5667	0.7259	0.0091	3.9171	3.9262
132.6	0.7278	0.0091	3.9158	3.9249
132.6333	0.7269	0.0091	3.9197	3.9288
132.6667	0.7272	0.0091	3.9224	3.9315
132.7	0.7265	0.0091	3.9132	3.9223
132.7333	0.7269	0.0091	3.9158	3.9249
132.7667	0.7282	0	3.9171	3.9171
132.8	0.7308	0.0223	3.921	3.9433
132.8333	0.7269	0	3.921	3.921
132.8667	0.7262	0	3.9197	3.9197
132.9	0.7278	0.0091	3.9197	3.9288
132.9333	0.7255	0.0223	3.921	3.9433
132.9667	0.7229	0.0091	3.9145	3.9236
133	0.7259	0.0091	3.9145	3.9236
133.0333	0.7272	0.0091	3.9118	3.9209
133.0667	0.7278	0	3.9171	3.9171
133.1	0.7269	0.0091	3.9171	3.9262
133.1333	0.7245	0.0091	3.9158	3.9249
133.1667	0.7275	0	3.9132	3.9132
133.2	0.7262	0.0091	3.9171	3.9262
133.2333	0.7292	0.0091	3.9197	3.9288
133.2667	0.7278	0.0091	3.9171	3.9262

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
133.3	0.7262	0.0223	3.9197	3.942
133.3333	0.7255	0.0091	3.9197	3.9288
133.3667	0.7262	0.0091	3.9145	3.9236
133.4	0.7242	0.0223	3.9237	3.9459
133.4333	0.7301	0.0091	3.9171	3.9262
133.4667	0.7292	0.0091	3.9158	3.9249
133.5	0.7265	0	3.9158	3.9158
133.5333	0.7259	0.0091	3.9197	3.9288
133.5667	0.7269	0.0354	3.921	3.9564
133.6	0.7285	0.0223	3.9132	3.9354
133.6333	0.7249	0.0354	3.925	3.9604
133.6667	0.7275	0	3.9237	3.9237
133.7	0.7292	0.0091	3.9237	3.9328
133.7333	0.7282	0.0091	3.9118	3.9209
133.7667	0.7239	0.0091	3.9171	3.9262
133.8	0.7288	0.0223	3.9197	3.942
133.8333	0.7275	0.0091	3.9171	3.9262
133.8667	0.7245	0.0091	3.9197	3.9288
133.9	0.7265	0.0354	3.9171	3.9525
133.9333	0.7249	0.0091	3.921	3.9302
133.9667	0.7269	0.0091	3.9171	3.9262
134	0.7272	0.0223	3.9197	3.942
134.0333	0.7282	0.0091	3.9145	3.9236
134.0667	0.7272	0.0091	3.921	3.9302
134.1	0.7285	0.0091	3.9224	3.9315
134.1333	0.7272	0.0091	3.9237	3.9328
134.1667	0.7265	0.0223	3.9184	3.9407
134.2	0.7252	0	3.9197	3.9197
134.2333	0.7275	0.0091	3.9224	3.9315
134.2667	0.7282	0.0091	3.9171	3.9262
134.3	0.7265	0	3.9158	3.9158
134.3333	0.7265	0	3.9197	3.9197
134.3667	0.7275	0.0091	3.9158	3.9249
134.4	0.7275	0	3.9158	3.9158
134.4333	0.7278	0.0223	3.921	3.9433
134.4667	0.7292	0.0223	3.9237	3.9459
134.5	0.7285	0.0223	3.9171	3.9394
134.5333	0.7265	0.0223	3.9184	3.9407
134.5667	0.7282	0.0091	3.921	3.9302
134.6	0.7252	0	3.925	3.925
134.6333	0.7269	0	3.9197	3.9197
134.6667	0.7272	0.0091	3.9197	3.9288
134.7	0.7282	0	3.921	3.921

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
134.7333	0.7249	0.0091	3.9145	3.9236
134.7667	0.7249	0.0091	3.9132	3.9223
134.8	0.7262	0.0223	3.9158	3.938
134.8333	0.7232	0	3.9224	3.9224
134.8667	0.7249	0.0091	3.9184	3.9275
134.9	0.7265	0.0223	3.9171	3.9394
134.9333	0.7285	0.0091	3.921	3.9302
134.9667	0.7239	0.0223	3.9132	3.9354
135	0.7278	0.0091	3.9197	3.9288
135.0333	0.7269	0.0091	3.9197	3.9288
135.0667	0.7265	0.0091	3.9197	3.9288
135.1	0.7259	0.0091	3.9184	3.9275
135.1333	0.7262	0.0091	3.9184	3.9275
135.1667	0.7278	0.0091	3.925	3.9341
135.2	0.7239	0.0091	3.925	3.9341
135.2333	0.7275	0.0091	3.921	3.9302
135.2667	0.7278	0	3.925	3.925
135.3	0.7236	0.0223	3.921	3.9433
135.3333	0.7262	0.0091	3.925	3.9341
135.3667	0.7278	0.0091	3.925	3.9341
135.4	0.7265	0.0223	3.9171	3.9394
135.4333	0.7252	0.0091	3.9237	3.9328
135.4667	0.7252	0.0091	3.925	3.9341
135.5	0.7249	0	3.9224	3.9224
135.5333	0.7245	0.0091	3.9263	3.9354
135.5667	0.7255	0.0223	3.925	3.9472
135.6	0.7272	0.0091	3.9224	3.9315
135.6333	0.7229	0.0091	3.9263	3.9354
135.6667	0.7255	0.0091	3.921	3.9302
135.7	0.7222	0.0091	3.9224	3.9315
135.7333	0.7282	0.0091	3.925	3.9341
135.7667	0.7278	0	3.921	3.921
135.8	0.7259	0.0091	3.921	3.9302
135.8333	0.7245	0.0091	3.921	3.9302
135.8667	0.7269	0.0223	3.9224	3.9446
135.9	0.7288	0.0223	3.9197	3.942
135.9333	0.7269	0.0223	3.9171	3.9394
135.9667	0.7216	0.0223	3.9237	3.9459
136	0.7278	0.0091	3.925	3.9341
136.0333	0.7242	0.0091	3.9197	3.9288
136.0667	0.7252	0.0223	3.9197	3.942
136.1	0.7255	0.0091	3.9158	3.9249
136.1333	0.7259	0	3.9224	3.9224

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
136.1667	0.7262	0	3.9237	3.9237
136.2	0.7245	0.0091	3.9237	3.9328
136.2333	0.7242	0.0223	3.921	3.9433
136.2667	0.7272	0.0091	3.9184	3.9275
136.3	0.7269	0.0091	3.9158	3.9249
136.3333	0.7262	0.0223	3.9184	3.9407
136.3667	0.7269	0.0091	3.9145	3.9236
136.4	0.7278	0.0091	3.9158	3.9249
136.4333	0.7265	0	3.9118	3.9118
136.4667	0.7272	0	3.921	3.921
136.5	0.7249	0.0223	3.9132	3.9354
136.5333	0.7242	0.0223	3.9184	3.9407
136.5667	0.7242	0.0223	3.9118	3.9341
136.6	0.7262	0.0223	3.9197	3.942
136.6333	0.7236	0.0091	3.9158	3.9249
136.6667	0.7226	0.0091	3.9145	3.9236
136.7	0.7252	0.0223	3.9197	3.942
136.7333	0.7282	0	3.921	3.921
136.7667	0.7262	0.0091	3.9171	3.9262
136.8	0.7269	0.0091	3.9158	3.9249
136.8333	0.7259	0.0091	3.9118	3.9209
136.8667	0.7236	0.0223	3.921	3.9433
136.9	0.7265	0.0223	3.9184	3.9407
136.9333	0.7269	0.0091	3.9145	3.9236
136.9667	0.7262	0	3.9132	3.9132
137	0.7275	0	3.9118	3.9118
137.0333	0.7262	0	3.9132	3.9132
137.0667	0.7269	0.0091	3.9171	3.9262
137.1	0.7245	0.0091	3.9171	3.9262
137.1333	0.7236	0.0223	3.9132	3.9354
137.1667	0.7249	0.0223	3.9092	3.9315
137.2	0.7269	0	3.9079	3.9079
137.2333	0.7236	0	3.9105	3.9105
137.2667	0.7262	0	3.9118	3.9118
137.3	0.7245	0.0091	3.9132	3.9223
137.3333	0.7265	0.0223	3.9145	3.9367
137.3667	0.7262	0.0091	3.9105	3.9196
137.4	0.7236	0.0091	3.9171	3.9262
137.4333	0.7259	0	3.9145	3.9145
137.4667	0.7288	0.0091	3.921	3.9302
137.5	0.7278	0.0091	3.9145	3.9236
137.5333	0.7371	0	3.9171	3.9171
137.5667	0.7463	0.0223	3.9132	3.9354

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
137.6	0.7604	0	3.9158	3.9158
137.6333	0.7759	0.0091	3.9263	3.9354
137.6667	0.792	0.0223	3.9316	3.9538
137.7	0.8042	0.0091	3.946	3.9551
137.7333	0.8259	0.0091	3.9566	3.9657
137.7667	0.8391	0.0091	3.9605	3.9696
137.8	0.8555	0.0223	3.9671	3.9893
137.8333	0.8677	0.0091	3.9829	3.992
137.8667	0.8802	0.0091	3.996	4.0051
137.9	0.895	0.0091	4.0091	4.0183
137.9333	0.9131	0.0091	4.0118	4.0209
137.9667	0.923	0.0091	4.0328	4.0419
138	0.9332	0.0091	4.0433	4.0524
138.0333	0.9434	0.0091	4.0591	4.0682
138.0667	0.9569	0.0223	4.067	4.0893
138.1	0.9698	0.0091	4.0854	4.0945
138.1333	0.9816	0.0091	4.1012	4.1103
138.1667	0.9898	0	4.1104	4.1104
138.2	1.0017	0.0091	4.1275	4.1366
138.2333	1.0102	0.0223	4.1459	4.1682
138.2667	1.0191	0	4.1564	4.1564
138.3	1.0303	0.0223	4.1722	4.1945
138.3333	1.0399	0.0091	4.1788	4.1879
138.3667	1.0478	0.0091	4.1972	4.2063
138.4	1.0527	0.0223	4.209	4.2313
138.4333	1.0636	0.0223	4.2209	4.2431
138.4667	1.0685	0	4.2366	4.2366
138.5	1.0767	0.0223	4.2524	4.2747
138.5333	1.0873	0.0091	4.2603	4.2694
138.5667	1.0935	0.0223	4.28	4.3023
138.6	1.1004	0.0091	4.2879	4.297
138.6333	1.109	0.0223	4.309	4.3312
138.6667	1.1123	0.0091	4.3182	4.3273
138.7	1.1179	0.0091	4.3261	4.3352
138.7333	1.1261	0.0223	4.3418	4.3641
138.7667	1.1304	0.0223	4.3589	4.3812
138.8	1.1383	0.0091	4.3708	4.3799
138.8333	1.1435	0.0091	4.3839	4.393
138.8667	1.1488	0	4.3971	4.3971
138.9	1.1514	0	4.4089	4.4089
138.9333	1.1583	0.0091	4.4194	4.4285
138.9667	1.1639	0.0091	4.4365	4.4456
139	1.1699	0.0091	4.451	4.4601



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
139.0333	1.1738	0	4.4628	4.4628
139.0667	1.1788	0	4.4746	4.4746
139.1	1.1804	0.0091	4.4852	4.4943
139.1333	1.1853	0.0223	4.4944	4.5166
139.1667	1.1886	0.0091	4.5075	4.5166
139.2	1.1949	0	4.5154	4.5154
139.2333	1.1978	0.0091	4.5286	4.5377
139.2667	1.2008	0	4.5417	4.5417
139.3	1.2074	0.0091	4.5588	4.5679
139.3333	1.2097	0.0091	4.5733	4.5824
139.3667	1.2117	0	4.5772	4.5772
139.4	1.2182	0.0091	4.5943	4.6034
139.4333	1.2176	0.0091	4.5996	4.6087
139.4667	1.2219	0.0091	4.6167	4.6258
139.5	1.2265	0	4.6246	4.6246
139.5333	1.2314	0.0091	4.6417	4.6508
139.5667	1.2311	0.0091	4.6482	4.6573
139.6	1.2347	0.0091	4.6561	4.6652
139.6333	1.235	0.0223	4.6693	4.6915
139.6667	1.2393	0.0091	4.6758	4.6849
139.7	1.2426	0.0091	4.6929	4.702
139.7333	1.2446	0	4.6995	4.6995
139.7667	1.2495	0.0091	4.7087	4.7178
139.8	1.2515	0.0091	4.7166	4.7257
139.8333	1.2545	0.0091	4.7258	4.7349
139.8667	1.2564	0.0091	4.7403	4.7494
139.9	1.2591	0.0091	4.7442	4.7533
139.9333	1.2597	0.0223	4.76	4.7823
139.9667	1.2633	0	4.7653	4.7653
140	1.2643	0.0091	4.7771	4.7862
140.0333	1.2656	0.0091	4.7758	4.7849
140.0667	1.2679	0.0091	4.7929	4.802
140.1	1.2686	0.0091	4.8073	4.8164
140.1333	1.2729	0.0091	4.8047	4.8138
140.1667	1.2749	0.0223	4.8179	4.8401
140.2	1.2778	0	4.8257	4.8257
140.2333	1.2811	0	4.8376	4.8376
140.2667	1.2867	0.0223	4.8442	4.8664
140.3	1.292	0.0223	4.8573	4.8796
140.3333	1.2982	0.0223	4.8665	4.8888
140.3667	1.3009	0.0091	4.8691	4.8782
140.4	1.3061	0	4.881	4.881
140.4333	1.3068	0.0091	4.8849	4.894

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
140.4667	1.3147	0	4.8941	4.8941
140.5	1.3167	0.0223	4.9073	4.9295
140.5333	1.3206	0	4.9086	4.9086
140.5667	1.3272	0.0091	4.9178	4.9269
140.6	1.3298	0.0091	4.9349	4.944
140.6333	1.3321	0.0091	4.9388	4.9479
140.6667	1.3377	0.0091	4.9467	4.9558
140.7	1.3397	0.0223	4.9638	4.9861
140.7333	1.3469	0	4.9625	4.9625
140.7667	1.3509	0.0091	4.9717	4.9808
140.8	1.3548	0.0223	4.9888	5.0111
140.8333	1.3594	0.0091	4.9901	4.9992
140.8667	1.3647	0.0091	4.998	5.0071
140.9	1.3634	0.0091	5.0098	5.0189
140.9333	1.3664	0	5.0269	5.0269
140.9667	1.3729	0.0091	5.0283	5.0374
141	1.3739	0.0091	5.0375	5.0466
141.0333	1.3795	0.0091	5.048	5.0571
141.0667	1.3795	0.0091	5.0506	5.0597
141.1	1.3831	0.0091	5.0585	5.0676
141.1333	1.3868	0	5.0743	5.0743
141.1667	1.3891	0	5.0874	5.0874
141.2	1.395	0.0091	5.0914	5.1005
141.2333	1.3966	0.0091	5.1006	5.1097
141.2667	1.3966	0.0091	5.1072	5.1163
141.3	1.3989	0.0091	5.1177	5.1268
141.3333	1.4052	0.0091	5.1229	5.132
141.3667	1.4052	0.0223	5.1308	5.1531
141.4	1.4108	0	5.144	5.144
141.4333	1.4114	0.0091	5.1479	5.157
141.4667	1.4154	0.0091	5.1532	5.1623
141.5	1.4167	0.0091	5.1637	5.1728
141.5333	1.4207	0.0091	5.169	5.1781
141.5667	1.422	0.0223	5.1795	5.2017
141.6	1.4236	0.0091	5.1782	5.1873
141.6333	1.4236	0.0223	5.1874	5.2096
141.6667	1.4269	0.0223	5.2005	5.2228
141.7	1.4292	0.0091	5.2018	5.2109
141.7333	1.4292	0.0091	5.211	5.2201
141.7667	1.4345	0.0223	5.2242	5.2464
141.8	1.4355	0.0091	5.2281	5.2372
141.8333	1.4365	0	5.24	5.24
141.8667	1.4381	0.0223	5.2373	5.2596

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
141.9	1.4411	0.0091	5.2518	5.2609
141.9333	1.4437	0	5.2557	5.2557
141.9667	1.4427	0	5.2636	5.2636
142	1.4463	0.0223	5.2742	5.2964
142.0333	1.448	0	5.2768	5.2768
142.0667	1.4477	0.0223	5.2886	5.3109
142.1	1.4457	0	5.2952	5.2952
142.1333	1.4434	0.0223	5.2952	5.3174
142.1667	1.4401	0	5.2991	5.2991
142.2	1.4361	0.0091	5.311	5.3201
142.2333	1.4348	0.0091	5.3136	5.3227
142.2667	1.4312	0	5.3294	5.3294
142.3	1.4322	0.0354	5.3294	5.3648
142.3333	1.4305	0.0091	5.332	5.3411
142.3667	1.4276	0.0091	5.3399	5.349
142.4	1.4243	0.0091	5.3412	5.3503
142.4333	1.4213	0.0091	5.3438	5.353
142.4667	1.4187	0.0091	5.3452	5.3543
142.5	1.4177	0.0091	5.3452	5.3543
142.5333	1.4157	0	5.3517	5.3517
142.5667	1.4164	0.0223	5.3557	5.3779
142.6	1.4161	0	5.3557	5.3557
142.6333	1.4131	0.0091	5.3583	5.3674
142.6667	1.4105	0.0091	5.3688	5.3779
142.7	1.4082	0	5.3688	5.3688
142.7333	1.4072	0.0091	5.3675	5.3766
142.7667	1.4075	0	5.378	5.378
142.8	1.4045	0.0091	5.3728	5.3819
142.8333	1.4059	0.0223	5.3741	5.3963
142.8667	1.4039	0.0091	5.3859	5.395
142.9	1.4045	0	5.3872	5.3872
142.9333	1.4019	0.0091	5.3859	5.395
142.9667	1.4022	0	5.3859	5.3859
143	1.4029	0	5.3886	5.3886
143.0333	1.4009	0.0091	5.3846	5.3937
143.0667	1.3989	0.0091	5.3899	5.399
143.1	1.3976	0	5.3951	5.3951
143.1333	1.3957	0.0091	5.4017	5.4108
143.1667	1.3989	0.0091	5.4004	5.4095
143.2	1.4003	0	5.4017	5.4017
143.2333	1.395	0.0223	5.4057	5.4279
143.2667	1.3957	0.0091	5.403	5.4121
143.3	1.397	0.0091	5.4135	5.4226

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
143.3333	1.3973	0.0091	5.4122	5.4213
143.3667	1.397	0.0091	5.4135	5.4226
143.4	1.3989	0.0091	5.4188	5.4279
143.4333	1.3989	0.0223	5.4254	5.4476
143.4667	1.4042	0.0091	5.432	5.4411
143.5	1.4039	0.0091	5.4241	5.4332
143.5333	1.4029	0.0091	5.4293	5.4384
143.5667	1.4059	0.0091	5.428	5.4371
143.6	1.4052	0.0091	5.4333	5.4424
143.6333	1.4059	0.0223	5.4346	5.4568
143.6667	1.4082	0.0091	5.4333	5.4424
143.7	1.4088	0.0091	5.4412	5.4503
143.7333	1.4114	0	5.4451	5.4451
143.7667	1.4111	0.0223	5.4517	5.4739
143.8	1.4124	0.0091	5.449	5.4581
143.8333	1.4141	0	5.4556	5.4556
143.8667	1.4121	0.0091	5.4635	5.4726
143.9	1.4138	0.0091	5.4582	5.4674
143.9333	1.4154	0.0091	5.4648	5.4739
143.9667	1.4147	0.0091	5.4661	5.4752
144	1.4154	0	5.4661	5.4661
144.0333	1.4193	0.0091	5.4675	5.4766
144.0667	1.4167	0	5.4793	5.4793
144.1	1.4197	0.0223	5.474	5.4963
144.1333	1.4197	0	5.4793	5.4793
144.1667	1.419	0.0091	5.478	5.4871
144.2	1.423	0	5.4793	5.4793
144.2333	1.4249	0.0223	5.4885	5.5107
144.2667	1.4236	0.0091	5.4898	5.4989
144.3	1.4236	0.0091	5.4872	5.4963
144.3333	1.4259	0.0354	5.4911	5.5265
144.3667	1.4269	0.0091	5.4938	5.5029
144.4	1.4266	0	5.4911	5.4911
144.4333	1.4259	0	5.503	5.503
144.4667	1.4296	0.0091	5.4977	5.5068
144.5	1.4299	0	5.5003	5.5003
144.5333	1.4305	0.0223	5.5069	5.5292
144.5667	1.4312	0.0091	5.5095	5.5186
144.6	1.4312	0.0354	5.5161	5.5515
144.6333	1.4299	0.0091	5.5095	5.5186
144.6667	1.4338	0.0091	5.5161	5.5252
144.7	1.4342	0.0223	5.5201	5.5423
144.7333	1.4351	0.0223	5.5174	5.5397

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
144.7667	1.4342	0	5.5266	5.5266
144.8	1.4348	0.0091	5.5358	5.5449
144.8333	1.4378	0	5.5424	5.5424
144.8667	1.4348	0.0223	5.5424	5.5647
144.9	1.4381	0.0091	5.5411	5.5502
144.9333	1.4391	0.0223	5.5371	5.5594
144.9667	1.4404	0.0091	5.545	5.5541
145	1.4365	0	5.5464	5.5464
145.0333	1.4384	0	5.5477	5.5477
145.0667	1.4414	0.0223	5.5477	5.5699
145.1	1.4434	0	5.5503	5.5503
145.1333	1.4407	0.0091	5.5569	5.566
145.1667	1.443	0	5.5516	5.5516
145.2	1.444	0.0091	5.5621	5.5712
145.2333	1.4457	0	5.5608	5.5608
145.2667	1.447	0	5.5634	5.5634
145.3	1.4477	0.0091	5.57	5.5791
145.3333	1.4457	0.0091	5.5753	5.5844
145.3667	1.4457	0.0091	5.5713	5.5804
145.4	1.4463	0.0354	5.5805	5.6159
145.4333	1.4427	0.0223	5.5805	5.6028
145.4667	1.445	0.0223	5.5819	5.6041
145.5	1.449	0	5.5792	5.5792
145.5333	1.4477	0.0091	5.5819	5.591
145.5667	1.4483	0.0091	5.5792	5.5883
145.6	1.4503	0	5.5897	5.5897
145.6333	1.4496	0	5.5937	5.5937
145.6667	1.4516	0.0091	5.5897	5.5989
145.7	1.4503	0.0091	5.5924	5.6015
145.7333	1.45	0.0091	5.595	5.6041
145.7667	1.4526	0.0091	5.5976	5.6067
145.8	1.449	0.0223	5.599	5.6212
145.8333	1.4519	0.0091	5.6082	5.6173
145.8667	1.4542	0.0223	5.6029	5.6251
145.9	1.4556	0.0091	5.6068	5.6159
145.9333	1.4546	0.0091	5.6042	5.6133
145.9667	1.4546	0.0091	5.6121	5.6212
146	1.4542	0.0091	5.6121	5.6212
146.0333	1.4575	0.0354	5.6213	5.6567
146.0667	1.4546	0.0223	5.6187	5.6409
146.1	1.4579	0.0091	5.6187	5.6278
146.1333	1.4598	0.0091	5.6266	5.6357
146.1667	1.4556	0	5.6226	5.6226

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
146.2	1.4569	0.0091	5.6358	5.6449
146.2333	1.4552	0	5.6331	5.6331
146.2667	1.4579	0.0354	5.6305	5.6659
146.3	1.4562	0.0091	5.6358	5.6449
146.3333	1.4592	0	5.6463	5.6463
146.3667	1.4592	0.0091	5.6371	5.6462
146.4	1.4615	0.0091	5.6437	5.6528
146.4333	1.4595	0	5.6397	5.6397
146.4667	1.4618	0.0091	5.6397	5.6488
146.5	1.4608	0.0091	5.6502	5.6593
146.5333	1.4618	0.0091	5.6476	5.6567
146.5667	1.4615	0.0223	5.6463	5.6685
146.6	1.4628	0.0091	5.6489	5.658
146.6333	1.4625	0	5.6529	5.6529
146.6667	1.4618	0.0091	5.6542	5.6633
146.7	1.4644	0.0223	5.6555	5.6777
146.7333	1.4667	0	5.6621	5.6621
146.7667	1.4631	0.0223	5.6634	5.6856
146.8	1.4677	0.0091	5.666	5.6751
146.8333	1.4638	0	5.6673	5.6673
146.8667	1.4644	0.0091	5.6673	5.6764
146.9	1.4644	0	5.6713	5.6713
146.9333	1.4661	0.0091	5.6726	5.6817
146.9667	1.4687	0.0091	5.6739	5.683
147	1.4654	0.0091	5.6818	5.6909
147.0333	1.4707	0	5.6818	5.6818
147.0667	1.4654	0.0223	5.6818	5.704
147.1	1.4687	0	5.6818	5.6818
147.1333	1.4677	0	5.6779	5.6779
147.1667	1.4704	0	5.6792	5.6792
147.2	1.4694	0.0091	5.6844	5.6935
147.2333	1.4694	0.0091	5.6844	5.6935
147.2667	1.473	0.0091	5.6805	5.6896
147.3	1.4733	0.0091	5.6857	5.6948
147.3333	1.4687	0.0223	5.6884	5.7106
147.3667	1.472	0	5.6871	5.6871
147.4	1.4733	0.0354	5.6871	5.7225
147.4333	1.4697	0	5.6844	5.6844
147.4667	1.4743	0.0091	5.6936	5.7027
147.5	1.4746	0.0091	5.6923	5.7014
147.5333	1.47	0	5.6976	5.6976
147.5667	1.473	0.0091	5.6989	5.708
147.6	1.4727	0	5.7041	5.7041

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
147.6333	1.471	0.0223	5.7028	5.7251
147.6667	1.4746	0	5.7055	5.7055
147.7	1.472	0	5.7107	5.7107
147.7333	1.472	0.0091	5.6989	5.708
147.7667	1.4697	0.0223	5.7081	5.7303
147.8	1.472	0.0223	5.712	5.7343
147.8333	1.4697	0	5.712	5.712
147.8667	1.473	0.0091	5.7134	5.7225
147.9	1.4697	0.0223	5.7068	5.729
147.9333	1.4717	0.0091	5.7199	5.729
147.9667	1.4687	0.0223	5.712	5.7343
148	1.47	0	5.7147	5.7147
148.0333	1.471	0.0223	5.7199	5.7422
148.0667	1.4667	0	5.7199	5.7199
148.1	1.4684	0.0223	5.7291	5.7514
148.1333	1.4674	0.0091	5.7278	5.7369
148.1667	1.4667	0.0223	5.7226	5.7448
148.2	1.4681	0	5.7318	5.7318
148.2333	1.4661	0.0223	5.7199	5.7422
148.2667	1.4661	0.0091	5.7265	5.7356
148.3	1.4661	0.0091	5.7265	5.7356
148.3333	1.4661	0.0091	5.7304	5.7396
148.3667	1.4677	0.0091	5.7344	5.7435
148.4	1.4664	0.0223	5.7304	5.7527
148.4333	1.4661	0.0091	5.7226	5.7317
148.4667	1.4644	0	5.7265	5.7265
148.5	1.4651	0.0091	5.7318	5.7409
148.5333	1.4598	0.0091	5.7304	5.7396
148.5667	1.4631	0.0091	5.7318	5.7409
148.6	1.4641	0.0354	5.7304	5.7659
148.6333	1.4644	0.0091	5.7304	5.7396
148.6667	1.4608	0.0091	5.7357	5.7448
148.7	1.4628	0	5.737	5.737
148.7333	1.4598	0.0223	5.7383	5.7606
148.7667	1.4595	0.0091	5.7304	5.7396
148.8	1.4585	0.0354	5.7331	5.7685
148.8333	1.4615	0	5.7397	5.7397
148.8667	1.4615	0	5.7397	5.7397
148.9	1.4621	0.0223	5.7357	5.758
148.9333	1.4588	0	5.7357	5.7357
148.9667	1.4608	0.0091	5.7475	5.7566
149	1.4625	0.0091	5.7397	5.7488
149.0333	1.4598	0.0223	5.7449	5.7672

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
149.0667	1.4565	0	5.737	5.737
149.1	1.4575	0.0223	5.7436	5.7659
149.1333	1.4592	0.0091	5.741	5.7501
149.1667	1.4556	0.0091	5.741	5.7501
149.2	1.4569	0.0091	5.7449	5.754
149.2333	1.4602	0.0091	5.7423	5.7514
149.2667	1.4572	0.0091	5.7462	5.7553
149.3	1.4569	0.0223	5.7462	5.7685
149.3333	1.4582	0.0091	5.7449	5.754
149.3667	1.4588	0.0091	5.7462	5.7553
149.4	1.4532	0	5.741	5.741
149.4333	1.4572	0.0223	5.7436	5.7659
149.4667	1.4559	0	5.7436	5.7436
149.5	1.4559	0.0223	5.7462	5.7685
149.5333	1.4549	0.0223	5.7528	5.7751
149.5667	1.4552	0.0223	5.7449	5.7672
149.6	1.4562	0.0091	5.7515	5.7606
149.6333	1.4556	0	5.7489	5.7489
149.6667	1.4542	0	5.7515	5.7515
149.7	1.4536	0.0091	5.7489	5.758
149.7333	1.4536	0.0091	5.7436	5.7527
149.7667	1.4532	0.0091	5.7475	5.7566
149.8	1.4532	0.0223	5.7554	5.7777
149.8333	1.4529	0.0091	5.7475	5.7566
149.8667	1.4506	0.0091	5.7515	5.7606
149.9	1.4523	0.0091	5.7554	5.7645
149.9333	1.4539	0.0091	5.7515	5.7606
149.9667	1.4565	0	5.7462	5.7462
150	1.4536	0.0223	5.7502	5.7724
150.0333	1.4536	0.0091	5.7554	5.7645
150.0667	1.4519	0	5.7528	5.7528
150.1	1.4532	0.0223	5.7502	5.7724
150.1333	1.4513	0.0223	5.7462	5.7685
150.1667	1.4513	0.0091	5.7515	5.7606
150.2	1.4542	0.0091	5.7502	5.7593
150.2333	1.4519	0.0091	5.7502	5.7593
150.2667	1.4506	0.0223	5.7541	5.7764
150.3	1.4503	0.0091	5.7515	5.7606
150.3333	1.4506	0.0091	5.7581	5.7672
150.3667	1.449	0.0223	5.7541	5.7764
150.4	1.4526	0.0223	5.7502	5.7724
150.4333	1.4506	0.0223	5.7567	5.779
150.4667	1.45	0.0091	5.7554	5.7645



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
150.5	1.4519	0.0091	5.7528	5.7619
150.5333	1.4477	0.0223	5.7528	5.7751
150.5667	1.4486	0	5.7489	5.7489
150.6	1.4473	0	5.7554	5.7554
150.6333	1.4513	0.0223	5.762	5.7843
150.6667	1.448	0.0091	5.7581	5.7672
150.7	1.45	0.0091	5.7594	5.7685
150.7333	1.4503	0.0223	5.7567	5.779
150.7667	1.4467	0.0091	5.7594	5.7685
150.8	1.4496	0	5.7581	5.7581
150.8333	1.4493	0.0091	5.7607	5.7698
150.8667	1.4467	0.0223	5.7528	5.7751
150.9	1.4483	0.0091	5.7554	5.7645
150.9333	1.4483	0.0223	5.7594	5.7816
150.9667	1.4477	0.0091	5.7607	5.7698
151	1.448	0.0091	5.7515	5.7606
151.0333	1.4496	0.0223	5.7541	5.7764
151.0667	1.4467	0	5.7554	5.7554
151.1	1.448	0.0091	5.7502	5.7593
151.1333	1.4477	0.0091	5.7567	5.7659
151.1667	1.4457	0.0091	5.7528	5.7619
151.2	1.447	0.0223	5.7581	5.7803
151.2333	1.4483	0.0091	5.7528	5.7619
151.2667	1.449	0.0091	5.7567	5.7659
151.3	1.4457	0.0091	5.7515	5.7606
151.3333	1.445	0.0354	5.7581	5.7935
151.3667	1.4454	0.0091	5.7567	5.7659
151.4	1.4457	0.0223	5.7581	5.7803
151.4333	1.446	0.0223	5.7554	5.7777
151.4667	1.447	0.0223	5.7567	5.779
151.5	1.4463	0.0091	5.7489	5.758
151.5333	1.448	0	5.7594	5.7594
151.5667	1.445	0.0223	5.762	5.7843
151.6	1.4434	0	5.7567	5.7567
151.6333	1.4417	0	5.7594	5.7594
151.6667	1.443	0.0223	5.7607	5.7829
151.7	1.445	0.0223	5.7541	5.7764
151.7333	1.4447	0.0223	5.7554	5.7777
151.7667	1.4444	0.0091	5.7554	5.7645
151.8	1.4467	0.0091	5.7528	5.7619
151.8333	1.4444	0.0091	5.7581	5.7672
151.8667	1.446	0.0091	5.7528	5.7619
151.9	1.4454	0.0091	5.7554	5.7645

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
151.9333	1.4434	0.0223	5.7567	5.779
151.9667	1.4454	0.0091	5.7567	5.7659
152	1.4417	0	5.7567	5.7567
152.0333	1.4454	0.0091	5.7607	5.7698
152.0667	1.4437	0.0223	5.7607	5.7829
152.1	1.4437	0.0091	5.7594	5.7685
152.1333	1.4417	0	5.7594	5.7594
152.1667	1.4414	0	5.7567	5.7567
152.2	1.4434	0.0091	5.7594	5.7685
152.2333	1.4417	0	5.7554	5.7554
152.2667	1.4421	0.0091	5.7567	5.7659
152.3	1.4388	0.0091	5.7554	5.7645
152.3333	1.4404	0.0223	5.7581	5.7803
152.3667	1.4404	0.0091	5.7594	5.7685
152.4	1.4378	0.0223	5.7581	5.7803
152.4333	1.4424	0.0091	5.7581	5.7672
152.4667	1.443	0.0091	5.7581	5.7672
152.5	1.443	0.0223	5.7554	5.7777
152.5333	1.4398	0	5.7554	5.7554
152.5667	1.4417	0.0091	5.7594	5.7685
152.6	1.4407	0.0091	5.7554	5.7645
152.6333	1.4404	0.0091	5.7607	5.7698
152.6667	1.4391	0	5.7567	5.7567
152.7	1.4391	0.0091	5.7541	5.7632
152.7333	1.4384	0	5.7554	5.7554
152.7667	1.4398	0.0091	5.7581	5.7672
152.8	1.4407	0.0091	5.7607	5.7698
152.8333	1.4378	0	5.7567	5.7567
152.8667	1.4365	0.0223	5.7581	5.7803
152.9	1.4375	0.0091	5.762	5.7711
152.9333	1.4407	0.0091	5.7581	5.7672
152.9667	1.4417	0.0091	5.7581	5.7672
153	1.4375	0.0223	5.7554	5.7777
153.0333	1.4401	0.0223	5.762	5.7843
153.0667	1.4381	0	5.7633	5.7633
153.1	1.4411	0.0223	5.762	5.7843
153.1333	1.4394	0.0091	5.7581	5.7672
153.1667	1.4401	0.0091	5.7633	5.7724
153.2	1.4391	0	5.7673	5.7673
153.2333	1.4388	0.0091	5.7646	5.7737
153.2667	1.4371	0.0091	5.7594	5.7685
153.3	1.4398	0.0091	5.7673	5.7764
153.3333	1.4381	0.0091	5.762	5.7711

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
153.3667	1.4378	0.0091	5.762	5.7711
153.4	1.4384	0.0223	5.7594	5.7816
153.4333	1.4351	0.0223	5.7633	5.7856
153.4667	1.4381	0.0223	5.7581	5.7803
153.5	1.4381	0.0486	5.762	5.8106
153.5333	1.4391	0.0091	5.7607	5.7698
153.5667	1.4411	0	5.7607	5.7607
153.6	1.4338	0.0223	5.7594	5.7816
153.6333	1.4361	0.0091	5.766	5.7751
153.6667	1.4388	0.0091	5.762	5.7711
153.7	1.4388	0.0091	5.7646	5.7737
153.7333	1.4335	0.0223	5.7646	5.7869
153.7667	1.4384	0.0223	5.762	5.7843
153.8	1.4338	0.0091	5.7633	5.7724
153.8333	1.4361	0.0091	5.7554	5.7645
153.8667	1.4338	0.0091	5.7607	5.7698
153.9	1.4365	0.0091	5.762	5.7711
153.9333	1.4368	0.0223	5.7594	5.7816
153.9667	1.4358	0.0091	5.7699	5.779
154	1.4355	0.0091	5.7673	5.7764
154.0333	1.4371	0	5.7686	5.7686
154.0667	1.4371	0.0223	5.7673	5.7895
154.1	1.4355	0.0223	5.7633	5.7856
154.1333	1.4348	0.0091	5.7673	5.7764
154.1667	1.4348	0.0223	5.7673	5.7895
154.2	1.4384	0.0223	5.762	5.7843
154.2333	1.4351	0.0091	5.762	5.7711
154.2667	1.4348	0.0091	5.7581	5.7672
154.3	1.4348	0.0091	5.7633	5.7724
154.3333	1.4355	0.0091	5.7633	5.7724
154.3667	1.4332	0.0091	5.762	5.7711
154.4	1.4332	0.0091	5.762	5.7711
154.4333	1.4328	0.0223	5.7607	5.7829
154.4667	1.4342	0.0223	5.766	5.7882
154.5	1.4371	0.0091	5.7633	5.7724
154.5333	1.4345	0.0091	5.7673	5.7764
154.5667	1.4351	0.0091	5.7673	5.7764
154.6	1.4355	0.0091	5.7633	5.7724
154.6333	1.4358	0.0091	5.766	5.7751
154.6667	1.4361	0.0223	5.7673	5.7895
154.7	1.4322	0.0223	5.7646	5.7869
154.7333	1.4355	0	5.7594	5.7594
154.7667	1.4319	0.0223	5.762	5.7843

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
154.8	1.4328	0.0354	5.7607	5.7961
154.8333	1.4342	0.0091	5.7699	5.779
154.8667	1.4322	0.0091	5.7633	5.7724
154.9	1.4348	0	5.766	5.766
154.9333	1.4328	0.0091	5.7633	5.7724
154.9667	1.4338	0.0091	5.7646	5.7737
155	1.4335	0.0354	5.7581	5.7935
155.0333	1.4319	0	5.7699	5.7699
155.0667	1.4328	0	5.7581	5.7581
155.1	1.4315	0.0091	5.7646	5.7737
155.1333	1.4312	0.0091	5.7673	5.7764
155.1667	1.4312	0.0091	5.766	5.7751
155.2	1.4328	0	5.7699	5.7699
155.2333	1.4335	0	5.7594	5.7594
155.2667	1.4312	0	5.766	5.766
155.3	1.4299	0.0091	5.7594	5.7685
155.3333	1.4335	0	5.7725	5.7725
155.3667	1.4325	0	5.7594	5.7594
155.4	1.4332	0.0354	5.7607	5.7961
155.4333	1.4328	0	5.762	5.762
155.4667	1.4309	0.0091	5.7633	5.7724
155.5	1.4319	0.0091	5.7686	5.7777
155.5333	1.4328	0.0223	5.7699	5.7922
155.5667	1.4296	0.0223	5.7581	5.7803
155.6	1.4332	0.0091	5.762	5.7711
155.6333	1.4342	0.0091	5.762	5.7711
155.6667	1.4338	0.0223	5.7607	5.7829
155.7	1.4312	0.0223	5.7633	5.7856
155.7333	1.4302	0.0223	5.7646	5.7869
155.7667	1.4332	0.0091	5.7581	5.7672
155.8	1.4328	0.0091	5.7581	5.7672
155.8333	1.4296	0.0223	5.766	5.7882
155.8667	1.4342	0	5.7594	5.7594
155.9	1.4302	0	5.7607	5.7607
155.9333	1.4322	0.0091	5.762	5.7711
155.9667	1.4338	0.0091	5.7607	5.7698
156	1.4309	0.0223	5.7607	5.7829
156.0333	1.4325	0.0223	5.7673	5.7895
156.0667	1.4322	0.0091	5.7581	5.7672
156.1	1.4305	0.0223	5.7594	5.7816
156.1333	1.4312	0	5.7646	5.7646
156.1667	1.4282	0	5.7633	5.7633
156.2	1.4276	0	5.7646	5.7646

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
156.2333	1.4302	0	5.7673	5.7673
156.2667	1.4319	0.0091	5.7594	5.7685
156.3	1.4322	0.0223	5.7646	5.7869
156.3333	1.4286	0	5.7581	5.7581
156.3667	1.4282	0	5.7686	5.7686
156.4	1.4312	0	5.766	5.766
156.4333	1.4299	0.0091	5.766	5.7751
156.4667	1.4292	0.0091	5.766	5.7751
156.5	1.4282	0.0091	5.7673	5.7764
156.5333	1.4266	0.0223	5.7646	5.7869
156.5667	1.4322	0.0091	5.7581	5.7672
156.6	1.4286	0.0091	5.7594	5.7685
156.6333	1.4279	0.0091	5.7646	5.7737
156.6667	1.4269	0.0223	5.7607	5.7829
156.7	1.4292	0.0091	5.7646	5.7737
156.7333	1.4279	0.0091	5.7607	5.7698
156.7667	1.4305	0	5.7646	5.7646
156.8	1.4269	0.0091	5.7646	5.7737
156.8333	1.4315	0.0091	5.7673	5.7764
156.8667	1.4315	0.0223	5.7607	5.7829
156.9	1.4286	0	5.7594	5.7594
156.9333	1.4292	0.0091	5.7607	5.7698
156.9667	1.4279	0.0091	5.7633	5.7724
157	1.4279	0	5.7515	5.7515
157.0333	1.4302	0.0091	5.7646	5.7737
157.0667	1.4276	0.0091	5.762	5.7711
157.1	1.4282	0.0091	5.7567	5.7659
157.1333	1.4309	0.0091	5.7607	5.7698
157.1667	1.4282	0	5.7528	5.7528
157.2	1.4276	0.0354	5.7646	5.8
157.2333	1.4286	0.0354	5.7607	5.7961
157.2667	1.4302	0.0223	5.7633	5.7856
157.3	1.4292	0.0223	5.7594	5.7816
157.3333	1.4269	0.0223	5.7594	5.7816
157.3667	1.4296	0.0091	5.766	5.7751
157.4	1.4309	0.0091	5.766	5.7751
157.4333	1.4272	0.0091	5.7686	5.7777
157.4667	1.4263	0	5.7633	5.7633
157.5	1.4276	0.0091	5.7607	5.7698
157.5333	1.4292	0.0091	5.7633	5.7724
157.5667	1.4263	0.0091	5.7607	5.7698
157.6	1.4279	0.0091	5.7581	5.7672
157.6333	1.4246	0.0091	5.7699	5.779

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
157.6667	1.4279	0.0091	5.766	5.7751
157.7	1.4279	0.0091	5.7673	5.7764
157.7333	1.4259	0.0091	5.762	5.7711
157.7667	1.4292	0.0091	5.7581	5.7672
157.8	1.4266	0.0091	5.7541	5.7632
157.8333	1.4269	0.0091	5.7502	5.7593
157.8667	1.4272	0	5.7607	5.7607
157.9	1.4282	0.0223	5.7581	5.7803
157.9333	1.4266	0	5.7541	5.7541
157.9667	1.4246	0.0091	5.762	5.7711
158	1.4263	0.0223	5.7567	5.779
158.0333	1.4266	0.0223	5.762	5.7843
158.0667	1.4296	0.0223	5.762	5.7843
158.1	1.4243	0	5.7594	5.7594
158.1333	1.4249	0.0223	5.7646	5.7869
158.1667	1.4269	0.0091	5.7581	5.7672
158.2	1.4256	0.0091	5.7594	5.7685
158.2333	1.4259	0.0091	5.7607	5.7698
158.2667	1.4276	0.0091	5.7594	5.7685
158.3	1.4282	0	5.7581	5.7581
158.3333	1.4269	0.0223	5.7581	5.7803
158.3667	1.4253	0.0091	5.766	5.7751
158.4	1.4263	0.0223	5.7646	5.7869
158.4333	1.4253	0	5.7633	5.7633
158.4667	1.4272	0.0223	5.7725	5.7948
158.5	1.4276	0	5.7633	5.7633
158.5333	1.4266	0	5.766	5.766
158.5667	1.4253	0	5.7633	5.7633
158.6	1.4286	0	5.7699	5.7699
158.6333	1.4256	0.0091	5.7567	5.7659
158.6667	1.4266	0.0091	5.7673	5.7764
158.7	1.4259	0.0223	5.7594	5.7816
158.7333	1.4259	0.0223	5.7646	5.7869
158.7667	1.4286	0	5.7646	5.7646
158.8	1.4282	0.0091	5.7646	5.7737
158.8333	1.4286	0	5.7607	5.7607
158.8667	1.424	0	5.7633	5.7633
158.9	1.4276	0	5.7725	5.7725
158.9333	1.4282	0.0091	5.7673	5.7764
158.9667	1.4259	0.0091	5.762	5.7711
159	1.4286	0.0223	5.762	5.7843
159.0333	1.4282	0.0091	5.7633	5.7724
159.0667	1.4276	0.0091	5.7607	5.7698

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
159.1	1.4279	0	5.7633	5.7633
159.1333	1.4266	0	5.7633	5.7633
159.1667	1.4286	0	5.766	5.766
159.2	1.4276	0.0223	5.7607	5.7829
159.2333	1.4272	0.0091	5.7567	5.7659
159.2667	1.4259	0.0223	5.7673	5.7895
159.3	1.4292	0.0091	5.7607	5.7698
159.3333	1.4299	0.0223	5.7633	5.7856
159.3667	1.4263	0.0091	5.766	5.7751
159.4	1.4282	0	5.7633	5.7633
159.4333	1.4259	0.0091	5.7686	5.7777
159.4667	1.4259	0	5.766	5.766
159.5	1.4302	0.0354	5.7712	5.8066
159.5333	1.4276	0.0091	5.766	5.7751
159.5667	1.4249	0.0091	5.766	5.7751
159.6	1.4282	0	5.7686	5.7686
159.6333	1.4296	0.0223	5.7607	5.7829
159.6667	1.4272	0	5.762	5.762
159.7	1.4289	0.0091	5.7712	5.7803
159.7333	1.4259	0.0091	5.7646	5.7737
159.7667	1.4246	0.0091	5.7633	5.7724
159.8	1.4266	0	5.7633	5.7633
159.8333	1.4269	0.0354	5.766	5.8014
159.8667	1.4259	0.0354	5.766	5.8014
159.9	1.4266	0.0091	5.7686	5.7777
159.9333	1.4305	0.0091	5.766	5.7751
159.9667	1.4312	0	5.7673	5.7673
160	1.4279	0.0354	5.7633	5.7987
160.0333	1.4266	0.0223	5.762	5.7843
160.0667	1.4292	0.0091	5.766	5.7751
160.1	1.4282	0.0223	5.7528	5.7751
160.1333	1.4269	0.0091	5.7686	5.7777
160.1667	1.4253	0.0091	5.7673	5.7764
160.2	1.4279	0.0223	5.7594	5.7816
160.2333	1.4266	0	5.7646	5.7646
160.2667	1.4276	0.0091	5.7594	5.7685
160.3	1.4279	0.0091	5.7712	5.7803
160.3333	1.4276	0.0223	5.762	5.7843
160.3667	1.4282	0.0091	5.7607	5.7698
160.4	1.4253	0.0223	5.7686	5.7908
160.4333	1.4286	0.0091	5.766	5.7751
160.4667	1.4256	0.0091	5.7673	5.7764
160.5	1.4279	0.0091	5.7752	5.7843

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
160.5333	1.4266	0.0091	5.7673	5.7764
160.5667	1.4296	0	5.762	5.762
160.6	1.4282	0.0091	5.7725	5.7816
160.6333	1.4292	0.0091	5.766	5.7751
160.6667	1.424	0.0223	5.7673	5.7895
160.7	1.4269	0	5.7725	5.7725
160.7333	1.4305	0	5.7712	5.7712
160.7667	1.4256	0	5.762	5.762
160.8	1.4279	0.0223	5.7673	5.7895
160.8333	1.4266	0.0091	5.7633	5.7724
160.8667	1.4266	0	5.7686	5.7686
160.9	1.4305	0.0354	5.7686	5.804
160.9333	1.4299	0	5.7594	5.7594
160.9667	1.4276	0	5.7686	5.7686
161	1.4282	0	5.7686	5.7686
161.0333	1.4266	0.0091	5.7686	5.7777
161.0667	1.4305	0	5.7686	5.7686
161.1	1.4279	0.0091	5.7686	5.7777
161.1333	1.4282	0.0091	5.7673	5.7764
161.1667	1.4269	0.0091	5.7673	5.7764
161.2	1.4276	0.0091	5.7712	5.7803
161.2333	1.4309	0.0091	5.766	5.7751
161.2667	1.4302	0.0091	5.7686	5.7777
161.3	1.4286	0.0091	5.7633	5.7724
161.3333	1.4279	0	5.7673	5.7673
161.3667	1.4299	0	5.7712	5.7712
161.4	1.4292	0.0091	5.7686	5.7777
161.4333	1.4269	0	5.7673	5.7673
161.4667	1.4296	0.0091	5.7673	5.7764
161.5	1.4276	0.0091	5.7673	5.7764
161.5333	1.4289	0	5.7738	5.7738
161.5667	1.4276	0.0223	5.7686	5.7908
161.6	1.4299	0.0091	5.7673	5.7764
161.6333	1.4305	0	5.766	5.766
161.6667	1.4322	0.0354	5.7712	5.8066
161.7	1.4289	0	5.7699	5.7699
161.7333	1.4312	0.0091	5.7686	5.7777
161.7667	1.4282	0.0223	5.7699	5.7922
161.8	1.4315	0.0091	5.7673	5.7764
161.8333	1.4272	0.0223	5.7725	5.7948
161.8667	1.4322	0.0091	5.7725	5.7816
161.9	1.4299	0	5.7699	5.7699
161.9333	1.4305	0.0091	5.7699	5.779



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
161.9667	1.4328	0.0091	5.7673	5.7764
162	1.4332	0	5.7633	5.7633
162.0333	1.4286	0.0091	5.7752	5.7843
162.0667	1.4332	0.0091	5.7725	5.7816
162.1	1.4279	0.0091	5.766	5.7751
162.1333	1.4305	0.0091	5.7712	5.7803
162.1667	1.4272	0.0223	5.7738	5.7961
162.2	1.4312	0.0091	5.7699	5.779
162.2333	1.4315	0.0091	5.7752	5.7843
162.2667	1.4286	0.0091	5.7646	5.7737
162.3	1.4282	0.0223	5.7804	5.8027
162.3333	1.4312	0.0091	5.766	5.7751
162.3667	1.4315	0.0223	5.7725	5.7948
162.4	1.4335	0.0091	5.7699	5.779
162.4333	1.4345	0.0223	5.766	5.7882
162.4667	1.4312	0	5.7699	5.7699
162.5	1.4332	0.0223	5.7686	5.7908
162.5333	1.4312	0	5.7725	5.7725
162.5667	1.4282	0.0223	5.7712	5.7935
162.6	1.4322	0.0091	5.7673	5.7764
162.6333	1.4302	0.0091	5.7712	5.7803
162.6667	1.4299	0.0091	5.7686	5.7777
162.7	1.4342	0.0223	5.7686	5.7908
162.7333	1.4332	0.0223	5.7686	5.7908
162.7667	1.4322	0.0091	5.7686	5.7777
162.8	1.4312	0.0091	5.7646	5.7737
162.8333	1.4325	0.0223	5.7673	5.7895
162.8667	1.4309	0.0091	5.766	5.7751
162.9	1.4325	0.0091	5.7646	5.7737
162.9333	1.4309	0	5.7699	5.7699
162.9667	1.4325	0	5.762	5.762
163	1.4302	0.0223	5.766	5.7882
163.0333	1.4302	0	5.7817	5.7817
163.0667	1.4309	0	5.7712	5.7712
163.1	1.4322	0.0091	5.7686	5.7777
163.1333	1.4322	0	5.7712	5.7712
163.1667	1.4309	0	5.7804	5.7804
163.2	1.4299	0.0091	5.766	5.7751
163.2333	1.4351	0.0091	5.7712	5.7803
163.2667	1.4312	0	5.7686	5.7686
163.3	1.4319	0.0091	5.7673	5.7764
163.3333	1.4328	0.0091	5.7673	5.7764
163.3667	1.4299	0.0091	5.7673	5.7764

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
163.4	1.4315	0.0354	5.7738	5.8092
163.4333	1.4305	0.0091	5.766	5.7751
163.4667	1.4338	0.0091	5.7712	5.7803
163.5	1.4305	0.0223	5.766	5.7882
163.5333	1.4325	0.0091	5.7699	5.779
163.5667	1.4312	0.0091	5.7738	5.7829
163.6	1.4322	0.0091	5.7752	5.7843
163.6333	1.4325	0.0223	5.7712	5.7935
163.6667	1.4319	0	5.7765	5.7765
163.7	1.4322	0.0091	5.7712	5.7803
163.7333	1.4332	0	5.783	5.783
163.7667	1.4299	0	5.7673	5.7673
163.8	1.4289	0.0223	5.7738	5.7961
163.8333	1.4338	0	5.7699	5.7699
163.8667	1.4315	0.0223	5.7791	5.8014
163.9	1.4302	0.0223	5.7738	5.7961
163.9333	1.4332	0.0091	5.7738	5.7829
163.9667	1.4292	0	5.7699	5.7699
164	1.4315	0.0223	5.7778	5.8
164.0333	1.4309	0.0091	5.7765	5.7856
164.0667	1.4312	0.0091	5.7686	5.7777
164.1	1.4319	0	5.7778	5.7778
164.1333	1.4335	0.0223	5.7712	5.7935
164.1667	1.4332	0.0091	5.7686	5.7777
164.2	1.4296	0	5.7699	5.7699
164.2333	1.4312	0	5.7738	5.7738
164.2667	1.4289	0.0091	5.7699	5.779
164.3	1.4319	0.0091	5.7738	5.7829
164.3333	1.4345	0.0091	5.7778	5.7869
164.3667	1.4332	0.0091	5.7752	5.7843
164.4	1.4305	0.0091	5.7725	5.7816
164.4333	1.4322	0.0091	5.7738	5.7829
164.4667	1.4328	0	5.7725	5.7725
164.5	1.4309	0.0091	5.7791	5.7882
164.5333	1.4319	0.0091	5.7738	5.7829
164.5667	1.4332	0.0223	5.7804	5.8027
164.6	1.4279	0.0091	5.7752	5.7843
164.6333	1.4322	0.0091	5.7712	5.7803
164.6667	1.4289	0	5.7791	5.7791
164.7	1.4338	0.0091	5.7791	5.7882
164.7333	1.4325	0	5.7712	5.7712
164.7667	1.4302	0.0223	5.7699	5.7922
164.8	1.4296	0.0223	5.7752	5.7974

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
164.8333	1.4286	0.0223	5.7699	5.7922
164.8667	1.4319	0.0223	5.7738	5.7961
164.9	1.4309	0.0223	5.7738	5.7961
164.9333	1.4292	0.0091	5.7699	5.779
164.9667	1.4302	0.0091	5.7712	5.7803
165	1.4312	0.0091	5.7712	5.7803
165.0333	1.4296	0.0091	5.7738	5.7829
165.0667	1.4302	0.0091	5.7791	5.7882
165.1	1.4296	0.0091	5.7883	5.7974
165.1333	1.4328	0.0091	5.7752	5.7843
165.1667	1.4305	0.0091	5.7791	5.7882
165.2	1.4348	0.0091	5.7765	5.7856
165.2333	1.4322	0.0091	5.7844	5.7935
165.2667	1.4322	0.0223	5.7765	5.7987
165.3	1.4315	0.0091	5.7765	5.7856
165.3333	1.4299	0.0091	5.7857	5.7948
165.3667	1.4325	0.0091	5.7844	5.7935
165.4	1.4322	0.0223	5.7738	5.7961
165.4333	1.4315	0.0091	5.7791	5.7882
165.4667	1.4299	0.0091	5.7804	5.7895
165.5	1.4309	0.0354	5.7752	5.8106
165.5333	1.4312	0.0091	5.7791	5.7882
165.5667	1.4302	0.0091	5.7765	5.7856
165.6	1.4305	0.0223	5.7738	5.7961
165.6333	1.4296	0.0223	5.7804	5.8027
165.6667	1.4332	0.0091	5.7857	5.7948
165.7	1.4296	0	5.783	5.783
165.7333	1.4328	0.0223	5.7817	5.804
165.7667	1.4312	0.0091	5.7791	5.7882
165.8	1.4315	0	5.7738	5.7738
165.8333	1.4322	0.0091	5.7804	5.7895
165.8667	1.4309	0.0091	5.7844	5.7935
165.9	1.4319	0	5.7896	5.7896
165.9333	1.4319	0.0091	5.7817	5.7908
165.9667	1.4325	0.0091	5.7844	5.7935
166	1.4276	0.0091	5.7936	5.8027
166.0333	1.4292	0.0091	5.7857	5.7948
166.0667	1.4296	0	5.783	5.783
166.1	1.4305	0.0091	5.7844	5.7935
166.1333	1.4312	0.0091	5.787	5.7961
166.1667	1.4302	0.0091	5.7896	5.7987
166.2	1.4335	0.0091	5.7857	5.7948
166.2333	1.4292	0.0223	5.7923	5.8145

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
166.2667	1.4302	0.0223	5.7883	5.8106
166.3	1.4325	0.0223	5.783	5.8053
166.3333	1.4319	0.0091	5.787	5.7961
166.3667	1.4319	0.0223	5.7883	5.8106
166.4	1.4279	0.0091	5.7883	5.7974
166.4333	1.4312	0.0091	5.7909	5.8
166.4667	1.4312	0.0091	5.7909	5.8
166.5	1.4279	0.0091	5.7883	5.7974
166.5333	1.4335	0.0223	5.7883	5.8106
166.5667	1.4296	0.0091	5.7896	5.7987
166.6	1.4309	0.0223	5.7936	5.8158
166.6333	1.4305	0	5.7975	5.7975
166.6667	1.4292	0.0091	5.7936	5.8027
166.7	1.4296	0.0091	5.7909	5.8
166.7333	1.4292	0.0091	5.787	5.7961
166.7667	1.4319	0.0091	5.7923	5.8014
166.8	1.4296	0.0091	5.7949	5.804
166.8333	1.4296	0.0223	5.7909	5.8132
166.8667	1.4309	0.0091	5.7949	5.804
166.9	1.4299	0.0223	5.7936	5.8158
166.9333	1.4309	0.0091	5.7936	5.8027
166.9667	1.4302	0.0091	5.7975	5.8066
167	1.4299	0	5.7975	5.7975
167.0333	1.4299	0.0091	5.7896	5.7987
167.0667	1.4309	0	5.7988	5.7988
167.1	1.4286	0.0091	5.8015	5.8106
167.1333	1.4305	0.0091	5.7949	5.804
167.1667	1.4299	0.0091	5.7923	5.8014
167.2	1.4302	0.0091	5.7975	5.8066
167.2333	1.4276	0	5.7975	5.7975
167.2667	1.4312	0.0091	5.7975	5.8066
167.3	1.4279	0.0223	5.7962	5.8185
167.3333	1.4282	0.0091	5.7988	5.8079
167.3667	1.4302	0.0091	5.7936	5.8027
167.4	1.4266	0	5.7988	5.7988
167.4333	1.4296	0.0091	5.7975	5.8066
167.4667	1.4256	0.0223	5.7923	5.8145
167.5	1.4279	0.0091	5.7988	5.8079
167.5333	1.4289	0.0091	5.7962	5.8053
167.5667	1.4286	0.0091	5.7936	5.8027
167.6	1.4286	0.0091	5.8028	5.8119
167.6333	1.4309	0.0223	5.7975	5.8198
167.6667	1.4299	0.0223	5.7923	5.8145

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
167.7	1.4319	0.0091	5.7962	5.8053
167.7333	1.4263	0.0091	5.8001	5.8092
167.7667	1.4269	0.0091	5.7936	5.8027
167.8	1.4299	0.0091	5.7962	5.8053
167.8333	1.4299	0	5.7923	5.7923
167.8667	1.4296	0.0091	5.7962	5.8053
167.9	1.4302	0.0091	5.7962	5.8053
167.9333	1.4289	0.0091	5.7791	5.7882
167.9667	1.4305	0.0223	5.7923	5.8145
168	1.4292	0.0223	5.787	5.8092
168.0333	1.4312	0.0091	5.7949	5.804
168.0667	1.4279	0.0091	5.8001	5.8092
168.1	1.4266	0	5.7936	5.7936
168.1333	1.4305	0.0091	5.8015	5.8106
168.1667	1.4282	0.0223	5.7949	5.8171
168.2	1.4296	0.0091	5.7962	5.8053
168.2333	1.4305	0	5.7949	5.7949
168.2667	1.4319	0.0091	5.8028	5.8119
168.3	1.4309	0.0091	5.7975	5.8066
168.3333	1.4299	0.0223	5.7962	5.8185
168.3667	1.4289	0.0091	5.8041	5.8132
168.4	1.4269	0.0223	5.8093	5.8316
168.4333	1.4289	0.0223	5.8054	5.8277
168.4667	1.4272	0	5.8015	5.8015
168.5	1.4292	0.0091	5.7962	5.8053
168.5333	1.4263	0.0091	5.8001	5.8092
168.5667	1.4309	0.0091	5.8067	5.8158
168.6	1.4286	0	5.8067	5.8067
168.6333	1.4272	0.0091	5.8054	5.8145
168.6667	1.4286	0	5.8015	5.8015
168.7	1.4289	0.0091	5.8001	5.8092
168.7333	1.4263	0.0091	5.7975	5.8066
168.7667	1.4282	0.0223	5.8067	5.829
168.8	1.4256	0	5.8067	5.8067
168.8333	1.4289	0.0091	5.808	5.8171
168.8667	1.4282	0	5.8054	5.8054
168.9	1.4279	0	5.7988	5.7988
168.9333	1.4266	0.0091	5.8054	5.8145
168.9667	1.4276	0.0091	5.808	5.8171
169	1.4266	0.0091	5.8186	5.8277
169.0333	1.4276	0.0223	5.8067	5.829
169.0667	1.4253	0.0354	5.812	5.8474
169.1	1.4269	0.0091	5.8041	5.8132

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
169.1333	1.4286	0.0091	5.8054	5.8145
169.1667	1.4272	0	5.8107	5.8107
169.2	1.4259	0.0223	5.808	5.8303
169.2333	1.4279	0.0091	5.8172	5.8263
169.2667	1.4269	0	5.8107	5.8107
169.3	1.4279	0.0091	5.8067	5.8158
169.3333	1.4263	0.0223	5.8054	5.8277
169.3667	1.4263	0.0091	5.812	5.8211
169.4	1.4233	0.0091	5.8093	5.8185
169.4333	1.4279	0.0091	5.8093	5.8185
169.4667	1.4272	0	5.812	5.812
169.5	1.4259	0.0091	5.8093	5.8185
169.5333	1.4256	0.0223	5.8186	5.8408
169.5667	1.4269	0.0223	5.812	5.8342
169.6	1.4263	0.0091	5.8146	5.8237
169.6333	1.4253	0.0091	5.8067	5.8158
169.6667	1.4263	0.0091	5.8133	5.8224
169.7	1.4249	0.0091	5.8225	5.8316
169.7333	1.4249	0.0223	5.8172	5.8395
169.7667	1.4276	0.0223	5.8146	5.8369
169.8	1.4246	0.0223	5.812	5.8342
169.8333	1.4243	0.0091	5.8093	5.8185
169.8667	1.4243	0.0223	5.8212	5.8434
169.9	1.424	0.0223	5.808	5.8303
169.9333	1.4256	0.0091	5.8225	5.8316
169.9667	1.4256	0.0091	5.8172	5.8263
170	1.4259	0.0091	5.8238	5.8329
170.0333	1.4236	0.0091	5.812	5.8211
170.0667	1.4272	0	5.8133	5.8133
170.1	1.4259	0	5.812	5.812
170.1333	1.4266	0.0091	5.8172	5.8263
170.1667	1.4292	0.0091	5.8212	5.8303
170.2	1.4259	0.0091	5.8186	5.8277
170.2333	1.4246	0.0091	5.8238	5.8329
170.2667	1.424	0	5.8238	5.8238
170.3	1.4236	0.0091	5.8238	5.8329
170.3333	1.4253	0.0091	5.8238	5.8329
170.3667	1.4276	0	5.8199	5.8199
170.4	1.424	0.0223	5.8186	5.8408
170.4333	1.4233	0.0091	5.8225	5.8316
170.4667	1.4236	0.0091	5.8199	5.829
170.5	1.4249	0.0091	5.8291	5.8382
170.5333	1.4246	0.0091	5.8212	5.8303

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
170.5667	1.4249	0.0091	5.8278	5.8369
170.6	1.424	0	5.8264	5.8264
170.6333	1.4246	0.0223	5.8172	5.8395
170.6667	1.4236	0.0091	5.8238	5.8329
170.7	1.4249	0.0091	5.8238	5.8329
170.7333	1.4236	0.0091	5.8186	5.8277
170.7667	1.4207	0.0223	5.8225	5.8448
170.8	1.4226	0.0091	5.8238	5.8329
170.8333	1.4246	0	5.8264	5.8264
170.8667	1.424	0.0223	5.8186	5.8408
170.9	1.4253	0	5.8212	5.8212
170.9333	1.4226	0.0091	5.8291	5.8382
170.9667	1.4246	0.0223	5.8278	5.85
171	1.4236	0.0091	5.8264	5.8355
171.0333	1.4246	0.0091	5.8251	5.8342
171.0667	1.4223	0.0091	5.8264	5.8355
171.1	1.4217	0	5.8251	5.8251
171.1333	1.4246	0.0091	5.8291	5.8382
171.1667	1.4213	0.0091	5.8343	5.8434
171.2	1.4226	0.0091	5.8291	5.8382
171.2333	1.4243	0.0223	5.8291	5.8513
171.2667	1.4249	0.0091	5.837	5.8461
171.3	1.4233	0.0091	5.8317	5.8408
171.3333	1.4236	0.0223	5.8304	5.8526
171.3667	1.4246	0.0091	5.8304	5.8395
171.4	1.4217	0	5.8278	5.8278
171.4333	1.424	0.0223	5.8317	5.854
171.4667	1.4217	0	5.8199	5.8199
171.5	1.4217	0.0091	5.8251	5.8342
171.5333	1.4243	0.0223	5.833	5.8553
171.5667	1.4236	0.0223	5.8251	5.8474
171.6	1.4213	0.0091	5.8291	5.8382
171.6333	1.4223	0.0091	5.8291	5.8382
171.6667	1.423	0	5.8317	5.8317
171.7	1.4243	0.0091	5.8264	5.8355
171.7333	1.4236	0.0223	5.8343	5.8566
171.7667	1.4243	0.0223	5.8356	5.8579
171.8	1.4236	0	5.8396	5.8396
171.8333	1.4197	0.0091	5.8317	5.8408
171.8667	1.4217	0.0223	5.8278	5.85
171.9	1.4203	0.0223	5.8317	5.854
171.9333	1.4213	0.0091	5.8422	5.8513
171.9667	1.422	0.0223	5.8317	5.854

Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
172	1.4236	0.0223	5.8304	5.8526
172.0333	1.4223	0.0091	5.8396	5.8487
172.0667	1.4223	0.0091	5.8343	5.8434
172.1	1.423	0.0091	5.833	5.8421
172.1333	1.4236	0.0091	5.8317	5.8408
172.1667	1.421	0.0223	5.833	5.8553
172.2	1.422	0	5.8343	5.8343
172.2333	1.4207	0.0091	5.8343	5.8434
172.2667	1.422	0.0091	5.8291	5.8382
172.3	1.4213	0.0091	5.8396	5.8487
172.3333	1.4207	0.0091	5.8343	5.8434
172.3667	1.4233	0.0223	5.8343	5.8566
172.4	1.4217	0.0091	5.8383	5.8474
172.4333	1.4213	0	5.8304	5.8304
172.4667	1.4213	0	5.837	5.837
172.5	1.421	0.0223	5.8356	5.8579
172.5333	1.4223	0.0091	5.8343	5.8434
172.5667	1.423	0.0223	5.8343	5.8566
172.6	1.4217	0.0091	5.833	5.8421
172.6333	1.4233	0	5.8304	5.8304
172.6667	1.422	0.0223	5.8396	5.8618
172.7	1.4223	0.0223	5.8462	5.8684
172.7333	1.424	0.0223	5.8343	5.8566
172.7667	1.4233	0	5.8396	5.8396
172.8	1.4203	0.0091	5.8449	5.854
172.8333	1.4197	0.0091	5.8396	5.8487
172.8667	1.4226	0	5.8409	5.8409
172.9	1.4233	0.0223	5.8462	5.8684
172.9333	1.4203	0	5.8449	5.8449
172.9667	1.423	0.0091	5.833	5.8421
173	1.4217	0	5.8356	5.8356
173.0333	1.4203	0.0223	5.8462	5.8684
173.0667	1.4207	0.0091	5.8488	5.8579
173.1	1.422	0.0223	5.8396	5.8618
173.1333	1.422	0.0091	5.8449	5.854
173.1667	1.4217	0.0091	5.8462	5.8553
173.2	1.4184	0.0091	5.8449	5.854
173.2333	1.4223	0.0091	5.8462	5.8553
173.2667	1.42	0	5.8396	5.8396
173.3	1.4203	0	5.837	5.837
173.3333	1.422	0	5.8435	5.8435
173.3667	1.422	0.0091	5.8422	5.8513
173.4	1.42	0.0091	5.8356	5.8448



Areva NP Inc.

Project No. G101276459SAT-001B top

October 18, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
173.4333	1.4203	0.0223	5.8356	5.8579
173.4667	1.422	0.0091	5.8435	5.8526
173.5	1.4213	0.0091	5.8462	5.8553
173.5333	1.4184	0.0091	5.8475	5.8566
173.5667	1.4213	0.0091	5.8449	5.854
173.6	1.423	0.0223	5.8462	5.8684
173.6333	1.4213	0.0091	5.8449	5.854
173.6667	1.4187	0.0091	5.8475	5.8566
173.7	1.42	0.0091	5.8475	5.8566
173.7333	1.418	0.0354	5.8462	5.8816
173.7667	1.4207	0.0091	5.8462	5.8553
173.8	1.4207	0.0091	5.8488	5.8579
173.8333	1.418	0.0091	5.8462	5.8553
173.8667	1.4177	0.0091	5.8567	5.8658
173.9	1.4203	0.0091	5.8541	5.8632
173.9333	1.4203	0.0223	5.8541	5.8763
173.9667	1.4187	0.0223	5.858	5.8803
174	1.419	0.0091	5.8554	5.8645

APPENDIX B2 – Bottom Side  
Test Data

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
0	-0.0275	0	0	0
0.0333	-0.0249	0.005	0	0.005
0.0667	-0.0275	0.005	0	0.005
0.1	-0.0282	0.005	0.0004	0.0054
0.1333	-0.0295	0.005	0.0004	0.0054
0.1667	-0.0272	0.005	0.0004	0.0054
0.2	-0.0279	0	0.0004	0.0004
0.2333	-0.0298	0.005	0	0.005
0.2667	-0.0295	0	0.0004	0.0004
0.3	-0.0305	0	0.0004	0.0004
0.3333	-0.0285	0	0	0
0.3667	-0.0282	0	0.0017	0.0017
0.4	-0.0265	0	0	0
0.4333	-0.0259	0.005	0.0004	0.0054
0.4667	-0.0269	0	0.0004	0.0004
0.5	-0.0232	0.005	0	0.005
0.5333	-0.0282	0	0.0017	0.0017
0.5667	-0.0279	0.005	0	0.005
0.6	-0.0288	0.005	0	0.005
0.6333	-0.0262	0.005	0.0004	0.0054
0.6667	-0.0265	0.005	0.0004	0.0054
0.7	-0.0315	0.005	0.0004	0.0054
0.7333	-0.0269	0	0	0
0.7667	-0.0279	0.005	0	0.005
0.8	-0.0272	0.0181	0.0004	0.0185
0.8333	-0.0275	0.005	0.0004	0.0054
0.8667	-0.0269	0	0	0
0.9	-0.0305	0.005	0	0.005
0.9333	-0.0292	0.005	0	0.005
0.9667	-0.0255	0.005	0	0.005
1	-0.0275	0.005	0	0.005
1.0333	-0.0292	0.0181	0	0.0181
1.0667	-0.0292	0	0	0
1.1	-0.0295	0	0	0
1.1333	-0.0282	0.005	0.0017	0.0067
1.1667	-0.0272	0	0	0
1.2	-0.0279	0.005	0	0.005
1.2333	-0.0275	0	0	0
1.2667	-0.0279	0.005	0.0004	0.0054
1.3	-0.0249	0.005	0	0.005
1.3333	-0.0249	0	0.0004	0.0004
1.3667	-0.0275	0.005	0	0.005
1.4	-0.0275	0	0.0004	0.0004

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
1.4333	-0.0265	0.0181	0	0.0181
1.4667	-0.0272	0	0.0004	0.0004
1.5	-0.0275	0	0.0017	0.0017
1.5333	-0.0265	0	0.0004	0.0004
1.5667	-0.0275	0.005	0.0004	0.0054
1.6	-0.0262	0.005	0	0.005
1.6333	-0.0285	0.005	0	0.005
1.6667	-0.0262	0.0181	0	0.0181
1.7	-0.0269	0	0.0004	0.0004
1.7333	-0.0265	0	0.0004	0.0004
1.7667	-0.0288	0	0.0004	0.0004
1.8	-0.0269	0.005	0.0004	0.0054
1.8333	-0.0265	0	0.0004	0.0004
1.8667	-0.0295	0.005	0	0.005
1.9	-0.0272	0.005	0	0.005
1.9333	-0.0298	0.0181	0	0.0181
1.9667	-0.0265	0.005	0.0017	0.0067
2	-0.0292	0	0.0004	0.0004
2.0333	-0.0265	0.005	0.0004	0.0054
2.0667	-0.0265	0	0	0
2.1	-0.0302	0	0.0004	0.0004
2.1333	-0.0288	0	0	0
2.1667	-0.0279	0	0	0
2.2	-0.0269	0.005	0.0004	0.0054
2.2333	-0.0272	0	0.0004	0.0004
2.2667	-0.0259	0.005	0	0.005
2.3	-0.0262	0	0	0
2.3333	-0.0292	0	0	0
2.3667	-0.0275	0.005	0.0017	0.0067
2.4	-0.0255	0.005	0.0004	0.0054
2.4333	-0.0288	0.005	0	0.005
2.4667	-0.0275	0	0	0
2.5	-0.0275	0.0181	0	0.0181
2.5333	-0.0262	0	0.0004	0.0004
2.5667	-0.0305	0	0.0004	0.0004
2.6	-0.0275	0.005	0	0.005
2.6333	-0.0269	0	0.0004	0.0004
2.6667	-0.0285	0	0	0
2.7	-0.0262	0.005	0	0.005
2.7333	-0.0262	0	0.0017	0.0017
2.7667	-0.0279	0	0	0
2.8	-0.0292	0	0.0004	0.0004
2.8333	-0.0272	0.005	0.0004	0.0054

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
2.8667	-0.0269	0.005	0.0017	0.0067
2.9	-0.0275	0	0.0004	0.0004
2.9333	-0.0275	0	0.0004	0.0004
2.9667	-0.0298	0.0181	0.0017	0.0199
3	-0.0292	0.0181	0.0004	0.0185
3.0333	-0.0279	0.0313	0.0017	0.033
3.0667	-0.0285	0.005	0	0.005
3.1	-0.0288	0.0181	0.0004	0.0185
3.1333	-0.0275	0	0.0004	0.0004
3.1667	-0.0308	0.005	0.0004	0.0054
3.2	-0.0255	0.005	0	0.005
3.2333	-0.0292	0.005	0.0004	0.0054
3.2667	-0.0282	0.0181	0.0004	0.0185
3.3	-0.0269	0	0.0004	0.0004
3.3333	-0.0279	0.005	0	0.005
3.3667	-0.0252	0	0.0004	0.0004
3.4	-0.0275	0.005	0.0004	0.0054
3.4333	-0.0279	0.005	0.0004	0.0054
3.4667	-0.0282	0	0	0
3.5	-0.0269	0.005	0	0.005
3.5333	-0.0262	0	0.0004	0.0004
3.5667	-0.0275	0.005	0	0.005
3.6	-0.0262	0	0.0004	0.0004
3.6333	-0.0285	0	0.0017	0.0017
3.6667	-0.0279	0.0181	0	0.0181
3.7	-0.0249	0	0.0004	0.0004
3.7333	-0.0302	0.005	0.0004	0.0054
3.7667	-0.0255	0	0.0004	0.0004
3.8	-0.0259	0.005	0.0017	0.0067
3.8333	-0.0265	0.0181	0.0004	0.0185
3.8667	-0.0246	0.0181	0.0004	0.0185
3.9	-0.0295	0	0	0
3.9333	-0.0285	0	0.003	0.003
3.9667	-0.0295	0	0	0
4	-0.0302	0	0.0004	0.0004
4.0333	-0.0265	0	0.0004	0.0004
4.0667	-0.0262	0	0.0004	0.0004
4.1	-0.0262	0.005	0.0004	0.0054
4.1333	-0.0255	0.0181	0.0004	0.0185
4.1667	-0.0259	0.005	0	0.005
4.2	-0.0275	0.005	0	0.005
4.2333	-0.0259	0	0.0017	0.0017
4.2667	-0.0275	0	0	0

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
4.3	-0.0252	0.005	0.0004	0.0054
4.3333	-0.0259	0	0.0004	0.0004
4.3667	-0.0262	0	0	0
4.4	-0.0288	0.0181	0.0004	0.0185
4.4333	-0.0259	0	0.0017	0.0017
4.4667	-0.0262	0.005	0	0.005
4.5	-0.0285	0	0.0004	0.0004
4.5333	-0.0269	0.0181	0	0.0181
4.5667	-0.0255	0	0	0
4.6	-0.0265	0	0.0004	0.0004
4.6333	-0.0252	0.005	0.0017	0.0067
4.6667	-0.0288	0.0181	0	0.0181
4.7	-0.0262	0.005	0.0004	0.0054
4.7333	-0.0298	0.005	0.0004	0.0054
4.7667	-0.0272	0	0	0
4.8	-0.0255	0	0	0
4.8333	-0.0249	0.005	0.0004	0.0054
4.8667	-0.0259	0	0.0004	0.0004
4.9	-0.0259	0.0181	0.0004	0.0185
4.9333	-0.0305	0.005	0.0004	0.0054
4.9667	-0.0269	0.0181	0.0004	0.0185
5	-0.0295	0.005	0.0004	0.0054
5.0333	-0.0292	0.005	0.0004	0.0054
5.0667	-0.0288	0.005	0	0.005
5.1	-0.0285	0	0	0
5.1333	-0.0262	0	0	0
5.1667	-0.0252	0.0181	0.0004	0.0185
5.2	-0.0255	0	0.003	0.003
5.2333	-0.0262	0.005	0	0.005
5.2667	-0.0265	0.005	0	0.005
5.3	-0.0269	0	0.0004	0.0004
5.3333	-0.0255	0	0.0017	0.0017
5.3667	-0.0269	0.005	0	0.005
5.4	-0.0272	0	0.0004	0.0004
5.4333	-0.0288	0	0.0004	0.0004
5.4667	-0.0275	0.005	0	0.005
5.5	-0.0262	0	0	0
5.5333	-0.0265	0	0.0017	0.0017
5.5667	-0.0213	0	0	0
5.6	-0.0101	0.005	0.0004	0.0054
5.6333	-0.0065	0.005	0	0.005
5.6667	-0.0002	0	0.0017	0.0017
5.7	0.0024	0	0.0004	0.0004

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
5.7333	0.0021	0	0.0004	0.0004
5.7667	0.0051	0.005	0	0.005
5.8	0.0028	0.005	0.0004	0.0054
5.8333	0.0037	0.005	0	0.005
5.8667	0.0028	0.0181	0.0017	0.0199
5.9	0.0031	0.0181	0.0017	0.0199
5.9333	0.0028	0.005	0	0.005
5.9667	0.0044	0.005	0.0004	0.0054
6	0.0057	0.0181	0.8157	0.8338
6.0333	0.0021	0.0181	0.817	0.8351
6.0667	0.0001	0	0.8078	0.8078
6.1	0.0037	0	0.8131	0.8131
6.1333	0.0008	0	0.8131	0.8131
6.1667	0.0005	0.005	0.8091	0.8141
6.2	0.0018	0	0.8078	0.8078
6.2333	0.0014	0.005	0.8157	0.8207
6.2667	0.0021	0	0.8144	0.8144
6.3	0.0041	0.005	0.8118	0.8167
6.3333	0.0018	0.005	0.8157	0.8207
6.3667	0.0005	0.0181	0.821	0.8391
6.4	0.0014	0	0.8157	0.8157
6.4333	0.0057	0	0.821	0.821
6.4667	0.0041	0.005	0.8183	0.8233
6.5	0.0028	0.005	0.821	0.8259
6.5333	0.0051	0	0.8262	0.8262
6.5667	0.0028	0.005	0.8275	0.8325
6.6	0.0005	0.0181	0.8275	0.8457
6.6333	0.0044	0.005	0.8315	0.8365
6.6667	0.0041	0.005	0.8328	0.8378
6.7	0.0057	0.0181	0.842	0.8601
6.7333	0.0034	0.005	0.8446	0.8496
6.7667	0.0034	0.005	0.8486	0.8536
6.8	0.0051	0.005	0.8578	0.8628
6.8333	0.0064	0	0.8604	0.8604
6.8667	0.0044	0.005	0.8683	0.8733
6.9	0.0054	0	0.8814	0.8814
6.9333	0.0034	0	0.8933	0.8933
6.9667	0.0031	0.005	0.9104	0.9154
7	0.0054	0	0.9275	0.9275
7.0333	0.0087	0	0.9459	0.9459
7.0667	0.0093	0	0.9669	0.9669
7.1	0.011	0.005	0.988	0.9929
7.1333	0.0116	0.0181	1.0169	1.035

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
7.1667	0.012	0	1.0379	1.0379
7.2	0.0133	0.005	1.0563	1.0613
7.2333	0.011	0.005	1.0537	1.0587
7.2667	0.0093	0	1.0406	1.0406
7.3	0.0034	0.0181	1.0274	1.0455
7.3333	0.0044	0	1.0156	1.0156
7.3667	0.0037	0.005	1.009	1.014
7.4	0.0047	0	0.9958	0.9958
7.4333	0.0034	0.005	0.9801	0.9851
7.4667	-0.0022	0.0181	0.9656	0.9837
7.5	-0.0018	0	0.9511	0.9511
7.5333	-0.0028	0.005	0.9419	0.9469
7.5667	-0.0015	0.005	0.9222	0.9272
7.6	0.0005	0.005	0.9143	0.9193
7.6333	-0.0018	0.005	0.8985	0.9035
7.6667	0.0008	0.0181	0.8854	0.9035
7.7	-0.0018	0	0.8696	0.8696
7.7333	-0.0042	0	0.8591	0.8591
7.7667	-0.0042	0	0.842	0.842
7.8	-0.0035	0.0181	0.8315	0.8496
7.8333	-0.0038	0	0.8144	0.8144
7.8667	-0.0068	0.0181	0.8039	0.822
7.9	-0.0081	0	0.7907	0.7907
7.9333	-0.0042	0.005	0.7723	0.7773
7.9667	-0.0051	0	0.7631	0.7631
8	-0.0058	0.0181	0.7526	0.7707
8.0333	-0.0078	0	0.7421	0.7421
8.0667	-0.0058	0.005	0.7223	0.7273
8.1	-0.0088	0.005	0.7184	0.7234
8.1333	-0.0074	0.005	0.7052	0.7102
8.1667	-0.0117	0.005	0.6921	0.6971
8.2	-0.0114	0.005	0.6816	0.6866
8.2333	-0.0088	0	0.6684	0.6684
8.2667	-0.0078	0	0.6566	0.6566
8.3	-0.0114	0	0.65	0.65
8.3333	-0.0088	0	0.6382	0.6382
8.3667	-0.0127	0.005	0.6316	0.6366
8.4	-0.0124	0	0.6198	0.6198
8.4333	-0.0107	0.005	0.6106	0.6155
8.4667	-0.0097	0.005	0.6066	0.6116
8.5	-0.0114	0	0.604	0.604
8.5333	-0.0088	0	0.6	0.6
8.5667	-0.0121	0.005	0.5922	0.5971



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
8.6	-0.0091	0	0.5935	0.5935
8.6333	-0.0068	0.005	0.5948	0.5998
8.6667	-0.0078	0.005	0.5948	0.5998
8.7	-0.0061	0.005	0.5974	0.6024
8.7333	-0.0055	0	0.5935	0.5935
8.7667	-0.0058	0.005	0.604	0.609
8.8	-0.0084	0.005	0.6132	0.6182
8.8333	-0.0051	0	0.6132	0.6132
8.8667	-0.0025	0.005	0.6211	0.6261
8.9	-0.0038	0.005	0.6316	0.6366
8.9333	-0.0038	0	0.6395	0.6395
8.9667	-0.0028	0.005	0.6513	0.6563
9	0.0008	0	0.6605	0.6605
9.0333	-0.0012	0.005	0.6697	0.6747
9.0667	0.0014	0	0.6816	0.6816
9.1	0.0024	0	0.6895	0.6895
9.1333	0.0028	0.005	0.6987	0.7036
9.1667	0.0001	0	0.7092	0.7092
9.2	0.0008	0.005	0.7184	0.7234
9.2333	0.0005	0.0181	0.721	0.7392
9.2667	0.0001	0.005	0.7263	0.7313
9.3	0.0031	0	0.7276	0.7276
9.3333	0.0037	0	0.7315	0.7315
9.3667	0.0008	0.005	0.7342	0.7392
9.4	0.0018	0	0.7394	0.7394
9.4333	0.0011	0.0181	0.7447	0.7628
9.4667	0.0011	0.005	0.7421	0.747
9.5	0.0011	0.005	0.7473	0.7523
9.5333	0.0001	0.005	0.7499	0.7549
9.5667	-0.0005	0	0.7552	0.7552
9.6	0.0028	0.005	0.7592	0.7641
9.6333	-0.0002	0.005	0.7644	0.7694
9.6667	0.0018	0	0.7644	0.7644
9.7	0.0021	0.0181	0.767	0.7852
9.7333	0.0018	0.005	0.771	0.776
9.7667	0.0001	0	0.7697	0.7697
9.8	0.0021	0.005	0.7723	0.7773
9.8333	-0.0002	0.005	0.7736	0.7786
9.8667	-0.0009	0	0.7815	0.7815
9.9	0.0031	0.005	0.7776	0.7825
9.9333	0.0011	0	0.7802	0.7802
9.9667	0.0021	0	0.7828	0.7828
10	0.0028	0	0.7802	0.7802

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
10.0333	0.0028	0.005	0.7828	0.7878
10.0667	0.0008	0.0181	0.7855	0.8036
10.1	0.0054	0	0.7881	0.7881
10.1333	0.0021	0.005	0.7894	0.7944
10.1667	0.0014	0.005	0.7907	0.7957
10.2	0.0008	0.005	0.7933	0.7983
10.2333	0.0014	0.005	0.7907	0.7957
10.2667	0.0028	0.005	0.7933	0.7983
10.3	0.0034	0.005	0.7986	0.8036
10.3333	0.0031	0	0.7973	0.7973
10.3667	0.0008	0	0.7999	0.7999
10.4	0.0031	0	0.796	0.796
10.4333	-0.0032	0.005	0.8012	0.8062
10.4667	0.0021	0.0181	0.8012	0.8194
10.5	0.0001	0	0.8012	0.8012
10.5333	0.0021	0.0181	0.8039	0.822
10.5667	0.0021	0	0.8039	0.8039
10.6	0.0011	0.005	0.8025	0.8075
10.6333	0.0028	0.0181	0.8012	0.8194
10.6667	0.0024	0.0181	0.8065	0.8246
10.7	-0.0002	0.005	0.8012	0.8062
10.7333	0.0021	0.005	0.8039	0.8088
10.7667	0.0008	0.005	0.8065	0.8115
10.8	0.0034	0.0313	0.8065	0.8378
10.8333	0.0018	0.0181	0.8052	0.8233
10.8667	0.0011	0.005	0.8104	0.8154
10.9	-0.0002	0	0.8078	0.8078
10.9333	0.0044	0.0181	0.8091	0.8273
10.9667	0.0044	0.005	0.8091	0.8141
11	0.0001	0	0.8131	0.8131
11.0333	0.0034	0.005	0.8131	0.8181
11.0667	0.0051	0	0.8091	0.8091
11.1	0.0005	0.005	0.8118	0.8167
11.1333	0.0024	0.005	0.8131	0.8181
11.1667	-0.0009	0.005	0.8157	0.8207
11.2	-0.0002	0.005	0.8104	0.8154
11.2333	0.0024	0	0.8157	0.8157
11.2667	0.0005	0.005	0.8157	0.8207
11.3	0.0005	0	0.8118	0.8118
11.3333	-0.0009	0	0.8118	0.8118
11.3667	0.0021	0	0.8104	0.8104
11.4	0.0008	0	0.8131	0.8131
11.4333	0.0014	0.005	0.8131	0.8181

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
11.4667	-0.0018	0	0.8131	0.8131
11.5	-0.0005	0.005	0.8065	0.8115
11.5333	0.0014	0	0.8131	0.8131
11.5667	0.0014	0	0.8144	0.8144
11.6	0.0028	0	0.8118	0.8118
11.6333	0.0054	0.005	0.8131	0.8181
11.6667	-0.0009	0.005	0.8144	0.8194
11.7	0.0021	0.005	0.8131	0.8181
11.7333	-0.0012	0	0.8091	0.8091
11.7667	0.0021	0.0181	0.8131	0.8312
11.8	0.0008	0	0.8131	0.8131
11.8333	0.0001	0	0.8157	0.8157
11.8667	0.0028	0	0.8118	0.8118
11.9	0.0008	0.005	0.8131	0.8181
11.9333	-0.0012	0.005	0.8078	0.8128
11.9667	-0.0032	0.005	0.8091	0.8141
12	0.0001	0	0.8131	0.8131
12.0333	0.0014	0.005	0.8104	0.8154
12.0667	0.0021	0.005	0.8104	0.8154
12.1	-0.0012	0.0181	0.8078	0.8259
12.1333	0.0011	0	0.8091	0.8091
12.1667	0.0014	0	0.8091	0.8091
12.2	0.0001	0	0.8091	0.8091
12.2333	-0.0025	0.005	0.8104	0.8154
12.2667	0.0005	0	0.8091	0.8091
12.3	0.0021	0.0181	0.8078	0.8259
12.3333	-0.0002	0.005	0.8091	0.8141
12.3667	-0.0005	0	0.8078	0.8078
12.4	0.0024	0	0.8078	0.8078
12.4333	0.0021	0	0.8052	0.8052
12.4667	-0.0005	0	0.8091	0.8091
12.5	0.0008	0.0181	0.8065	0.8246
12.5333	0.0011	0	0.8091	0.8091
12.5667	-0.0018	0.0181	0.8039	0.822
12.6	0.0011	0	0.8052	0.8052
12.6333	-0.0005	0.005	0.8039	0.8088
12.6667	0.0008	0	0.8052	0.8052
12.7	0.0021	0.005	0.8078	0.8128
12.7333	0.0005	0.0181	0.8091	0.8273
12.7667	-0.0005	0.005	0.8065	0.8115
12.8	0.0021	0	0.8065	0.8065
12.8333	0.0028	0.005	0.8091	0.8141
12.8667	0.0001	0	0.8065	0.8065

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
12.9	0.0014	0	0.8039	0.8039
12.9333	0.0008	0	0.8065	0.8065
12.9667	0.0021	0.005	0.8065	0.8115
13	0.0011	0.005	0.8078	0.8128
13.0333	0.0018	0	0.8012	0.8012
13.0667	-0.0009	0.005	0.8091	0.8141
13.1	-0.0028	0.0181	0.8039	0.822
13.1333	0.0014	0	0.8118	0.8118
13.1667	-0.0012	0.005	0.8091	0.8141
13.2	0.0037	0.0181	0.8091	0.8273
13.2333	-0.0009	0	0.8118	0.8118
13.2667	0.0018	0	0.8078	0.8078
13.3	0.0024	0.0181	0.8144	0.8325
13.3333	-0.0012	0.005	0.8078	0.8128
13.3667	0.0005	0.005	0.8091	0.8141
13.4	0.0005	0.005	0.8052	0.8102
13.4333	0.0008	0.005	0.8104	0.8154
13.4667	-0.0005	0.005	0.8131	0.8181
13.5	0.0011	0.005	0.8104	0.8154
13.5333	0.0031	0	0.8157	0.8157
13.5667	0.0021	0.005	0.8104	0.8154
13.6	0.0018	0.005	0.8091	0.8141
13.6333	0.0051	0.005	0.8104	0.8154
13.6667	0.0037	0.005	0.8118	0.8167
13.7	0.0014	0.005	0.8104	0.8154
13.7333	0.0014	0	0.8104	0.8104
13.7667	0.0021	0.005	0.8157	0.8207
13.8	0.0031	0.005	0.8131	0.8181
13.8333	-0.0002	0.005	0.8157	0.8207
13.8667	-0.0009	0.0181	0.8065	0.8246
13.9	0.0034	0.005	0.8131	0.8181
13.9333	0.0014	0	0.8157	0.8157
13.9667	0.0041	0	0.8104	0.8104
14	0.0008	0.0181	0.8131	0.8312
14.0333	0.0014	0	0.8118	0.8118
14.0667	-0.0018	0.005	0.8104	0.8154
14.1	0.0011	0	0.8118	0.8118
14.1333	0.0001	0	0.8131	0.8131
14.1667	0.0014	0	0.8091	0.8091
14.2	0.0001	0.0181	0.8131	0.8312
14.2333	0.0034	0.005	0.8118	0.8167
14.2667	0.0021	0	0.8144	0.8144
14.3	-0.0002	0	0.8144	0.8144

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
14.3333	0.0024	0.005	0.8131	0.8181
14.3667	-0.0005	0	0.8157	0.8157
14.4	0.0008	0	0.8144	0.8144
14.4333	0.0018	0	0.8157	0.8157
14.4667	0.0011	0	0.8144	0.8144
14.5	0.0021	0.0181	0.8118	0.8299
14.5333	0.0008	0	0.8183	0.8183
14.5667	-0.0002	0.005	0.8131	0.8181
14.6	0.0037	0.005	0.8078	0.8128
14.6333	0.0024	0.005	0.8144	0.8194
14.6667	-0.0012	0	0.8104	0.8104
14.7	-0.0012	0.0181	0.821	0.8391
14.7333	-0.0015	0.005	0.8104	0.8154
14.7667	-0.0009	0.005	0.8118	0.8167
14.8	-0.0022	0.005	0.8183	0.8233
14.8333	-0.0012	0.005	0.8118	0.8167
14.8667	0.0008	0.0181	0.8091	0.8273
14.9	0.0011	0.005	0.821	0.8259
14.9333	-0.0015	0.0181	0.8196	0.8378
14.9667	0.0011	0.005	0.8104	0.8154
15	0.0008	0	0.8157	0.8157
15.0333	0.0001	0	0.8144	0.8144
15.0667	0.0021	0.005	0.8104	0.8154
15.1	0.0011	0.005	0.8183	0.8233
15.1333	-0.0015	0.0181	0.8104	0.8286
15.1667	0.0008	0.005	0.8183	0.8233
15.2	0.0014	0.005	0.8144	0.8194
15.2333	0.0005	0.005	0.8144	0.8194
15.2667	-0.0002	0.005	0.8091	0.8141
15.3	0.0018	0.005	0.8091	0.8141
15.3333	-0.0002	0.005	0.8144	0.8194
15.3667	-0.0002	0.005	0.8183	0.8233
15.4	0.0024	0	0.8196	0.8196
15.4333	0.0008	0.005	0.8131	0.8181
15.4667	-0.0002	0.005	0.8144	0.8194
15.5	-0.0012	0.005	0.8144	0.8194
15.5333	0.0001	0	0.8144	0.8144
15.5667	0.0024	0.0181	0.8131	0.8312
15.6	-0.0005	0	0.8091	0.8091
15.6333	0.0028	0.0313	0.8144	0.8457
15.6667	0.0005	0	0.8091	0.8091
15.7	-0.0005	0	0.817	0.817
15.7333	0.0028	0	0.8118	0.8118

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
15.7667	-0.0012	0	0.8104	0.8104
15.8	0.0014	0.005	0.8104	0.8154
15.8333	0.0021	0.005	0.8131	0.8181
15.8667	0.0011	0	0.8104	0.8104
15.9	0.0021	0	0.8196	0.8196
15.9333	0.0014	0.005	0.8118	0.8167
15.9667	0.0005	0.005	0.8144	0.8194
16	0.0014	0	0.8157	0.8157
16.0333	0.0041	0	0.8144	0.8144
16.0667	0.0028	0.005	0.8118	0.8167
16.1	0.0011	0.005	0.817	0.822
16.1333	0.0014	0.005	0.8144	0.8194
16.1667	0.0034	0.005	0.8144	0.8194
16.2	0.0001	0	0.8157	0.8157
16.2333	0.0031	0.0181	0.8131	0.8312
16.2667	-0.0012	0	0.8157	0.8157
16.3	-0.0002	0.0181	0.817	0.8351
16.3333	-0.0002	0	0.817	0.817
16.3667	0.0024	0	0.8157	0.8157
16.4	0.0008	0.005	0.8118	0.8167
16.4333	0.0005	0	0.817	0.817
16.4667	0.0028	0.0181	0.817	0.8351
16.5	0.0011	0.005	0.8157	0.8207
16.5333	0.0018	0.005	0.8144	0.8194
16.5667	0.0028	0	0.8183	0.8183
16.6	0.0011	0	0.817	0.817
16.6333	0.0011	0	0.8223	0.8223
16.6667	0.0008	0	0.821	0.821
16.7	0.0024	0.005	0.821	0.8259
16.7333	-0.0022	0	0.8144	0.8144
16.7667	0.0021	0.005	0.8196	0.8246
16.8	0.0024	0.005	0.8157	0.8207
16.8333	0.0001	0	0.8249	0.8249
16.8667	0.0008	0.0181	0.8157	0.8338
16.9	0.0011	0	0.8183	0.8183
16.9333	-0.0012	0.0181	0.8223	0.8404
16.9667	0.0051	0.005	0.821	0.8259
17	0.0014	0.005	0.821	0.8259
17.0333	0.0021	0.005	0.817	0.822
17.0667	0.0014	0.005	0.8236	0.8286
17.1	0.0011	0	0.8249	0.8249
17.1333	-0.0002	0.005	0.8249	0.8299
17.1667	-0.0012	0.005	0.8236	0.8286

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
17.2	0.0024	0.005	0.8183	0.8233
17.2333	0.0018	0.0181	0.8249	0.843
17.2667	0.0014	0	0.8236	0.8236
17.3	0.0024	0	0.8262	0.8262
17.3333	0.0028	0	0.8236	0.8236
17.3667	-0.0018	0	0.8183	0.8183
17.4	0.0018	0.005	0.8236	0.8286
17.4333	0.0001	0	0.8249	0.8249
17.4667	0.0024	0.0181	0.8288	0.847
17.5	0.0008	0	0.8249	0.8249
17.5333	0.0008	0	0.8236	0.8236
17.5667	0.0021	0.005	0.8275	0.8325
17.6	0.0034	0	0.8236	0.8236
17.6333	0.0031	0.005	0.8249	0.8299
17.6667	0.0037	0.005	0.8275	0.8325
17.7	0.0024	0.005	0.8275	0.8325
17.7333	0.0014	0.005	0.8288	0.8338
17.7667	0.0008	0.005	0.8328	0.8378
17.8	0.0001	0	0.8315	0.8315
17.8333	0.0031	0.005	0.821	0.8259
17.8667	0.0005	0	0.8288	0.8288
17.9	0.0005	0.005	0.8302	0.8351
17.9333	0.0005	0.005	0.8288	0.8338
17.9667	0.0014	0.005	0.8315	0.8365
18	0.0021	0.005	0.8302	0.8351
18.0333	0.0014	0	0.8315	0.8315
18.0667	0.0018	0.005	0.8302	0.8351
18.1	0.0001	0	0.8341	0.8341
18.1333	-0.0002	0	0.8341	0.8341
18.1667	-0.0002	0.0181	0.8354	0.8536
18.2	0.0021	0.005	0.8315	0.8365
18.2333	0.0005	0.005	0.8354	0.8404
18.2667	0.0021	0	0.8341	0.8341
18.3	0.0024	0.005	0.8341	0.8391
18.3333	0.0028	0	0.8341	0.8341
18.3667	0.0034	0.005	0.8367	0.8417
18.4	0.0028	0.0181	0.8302	0.8483
18.4333	0.0021	0.005	0.8328	0.8378
18.4667	0.0021	0.005	0.8315	0.8365
18.5	0.0008	0.005	0.8341	0.8391
18.5333	-0.0018	0.005	0.8328	0.8378
18.5667	0.0008	0.005	0.8354	0.8404
18.6	0.0037	0	0.8341	0.8341

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
18.6333	0.0021	0	0.8367	0.8367
18.6667	0.0018	0.0181	0.8354	0.8536
18.7	0.0014	0.005	0.8315	0.8365
18.7333	0.0014	0	0.8315	0.8315
18.7667	-0.0025	0	0.8367	0.8367
18.8	0.0021	0	0.8354	0.8354
18.8333	0.0014	0.005	0.8302	0.8351
18.8667	0.0031	0.005	0.8367	0.8417
18.9	-0.0012	0.005	0.8354	0.8404
18.9333	0.0001	0.005	0.8341	0.8391
18.9667	0.0021	0.005	0.8367	0.8417
19	0.0005	0	0.8328	0.8328
19.0333	0.0008	0.005	0.8328	0.8378
19.0667	0.0051	0.0181	0.8367	0.8549
19.1	0.0018	0	0.8354	0.8354
19.1333	0.0008	0.005	0.8328	0.8378
19.1667	0.0031	0.005	0.8407	0.8457
19.2	-0.0012	0.005	0.8354	0.8404
19.2333	0.0021	0	0.8394	0.8394
19.2667	0.0031	0.005	0.8367	0.8417
19.3	-0.0012	0.005	0.8394	0.8444
19.3333	0.0008	0	0.8367	0.8367
19.3667	0.0001	0	0.8341	0.8341
19.4	-0.0005	0.005	0.8367	0.8417
19.4333	0.0028	0.005	0.8407	0.8457
19.4667	-0.0009	0.005	0.8381	0.843
19.5	0.0021	0.005	0.8367	0.8417
19.5333	0.0011	0.005	0.8354	0.8404
19.5667	0.0008	0.005	0.8354	0.8404
19.6	-0.0002	0	0.8341	0.8341
19.6333	0.0011	0.005	0.8367	0.8417
19.6667	0.0031	0.005	0.8328	0.8378
19.7	0.0034	0	0.8381	0.8381
19.7333	-0.0009	0	0.8394	0.8394
19.7667	0.0014	0	0.8367	0.8367
19.8	0.0047	0	0.8367	0.8367
19.8333	0.0014	0.005	0.8394	0.8444
19.8667	0.0037	0.0181	0.8328	0.8509
19.9	0.0028	0.0181	0.8367	0.8549
19.9333	0.0005	0.005	0.8394	0.8444
19.9667	0.0018	0	0.8354	0.8354
20	-0.0009	0	0.8433	0.8433
20.0333	0.0001	0.005	0.8381	0.843



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
20.0667	-0.0018	0.005	0.842	0.847
20.1	-0.0015	0	0.8394	0.8394
20.1333	-0.0009	0	0.8341	0.8341
20.1667	-0.0005	0.0181	0.8407	0.8588
20.2	-0.0018	0	0.8367	0.8367
20.2333	-0.0005	0	0.8381	0.8381
20.2667	0.0031	0	0.8367	0.8367
20.3	0.0024	0.005	0.8354	0.8404
20.3333	-0.0038	0.005	0.8367	0.8417
20.3667	0.0021	0.005	0.8381	0.843
20.4	0.0044	0.0181	0.8381	0.8562
20.4333	0.0014	0	0.8394	0.8394
20.4667	0.0037	0.0181	0.8328	0.8509
20.5	-0.0025	0.005	0.8394	0.8444
20.5333	-0.0005	0.005	0.842	0.847
20.5667	-0.0012	0.0181	0.8354	0.8536
20.6	0.0018	0.0181	0.8381	0.8562
20.6333	-0.0005	0	0.8407	0.8407
20.6667	0.0005	0.005	0.8341	0.8391
20.7	-0.0012	0	0.8354	0.8354
20.7333	0.0001	0.005	0.8394	0.8444
20.7667	0.0005	0	0.8394	0.8394
20.8	0.0028	0.005	0.8367	0.8417
20.8333	0.0044	0.005	0.8407	0.8457
20.8667	0.0011	0.005	0.8407	0.8457
20.9	0.0031	0	0.8433	0.8433
20.9333	0.0011	0.005	0.842	0.847
20.9667	-0.0009	0	0.842	0.842
21	0.0041	0.005	0.8473	0.8522
21.0333	-0.0015	0.0181	0.8433	0.8614
21.0667	0.0024	0	0.8433	0.8433
21.1	0.0018	0	0.8486	0.8486
21.1333	-0.0005	0.005	0.8486	0.8536
21.1667	0.0005	0.005	0.8486	0.8536
21.2	0.0014	0	0.8525	0.8525
21.2333	0.0008	0.005	0.8499	0.8549
21.2667	0.0005	0.005	0.8473	0.8522
21.3	0.0018	0	0.8525	0.8525
21.3333	0.0011	0.0181	0.8486	0.8667
21.3667	0.0028	0.005	0.8565	0.8614
21.4	0.0018	0.0181	0.8565	0.8746
21.4333	0.0037	0	0.8499	0.8499
21.4667	0.0008	0	0.8604	0.8604

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
21.5	0.0011	0.0181	0.8551	0.8733
21.5333	-0.0002	0.005	0.8551	0.8601
21.5667	0.0018	0	0.8551	0.8551
21.6	0.0034	0.005	0.8578	0.8628
21.6333	0.0001	0.005	0.8617	0.8667
21.6667	0.0021	0	0.863	0.863
21.7	0.0041	0	0.8644	0.8644
21.7333	0.0028	0.005	0.8657	0.8707
21.7667	0.0044	0	0.8683	0.8683
21.8	-0.0005	0.0181	0.8644	0.8825
21.8333	0.0028	0.005	0.867	0.872
21.8667	0.0005	0.0181	0.8696	0.8877
21.9	0.0014	0	0.8644	0.8644
21.9333	0.0021	0	0.867	0.867
21.9667	0.0031	0.005	0.8722	0.8772
22	0.0028	0.0181	0.8736	0.8917
22.0333	0.0005	0.005	0.8696	0.8746
22.0667	0.0028	0.005	0.8775	0.8825
22.1	0.0008	0.005	0.8775	0.8825
22.1333	0.0021	0.0181	0.8683	0.8864
22.1667	0.0037	0.0181	0.8788	0.8969
22.2	0.0047	0.005	0.8775	0.8825
22.2333	0.0005	0.005	0.8709	0.8759
22.2667	0.0008	0	0.8775	0.8775
22.3	0.0028	0	0.8762	0.8762
22.3333	0.0021	0.0181	0.8828	0.9009
22.3667	-0.0005	0.005	0.8801	0.8851
22.4	0.0024	0.0313	0.8801	0.9114
22.4333	-0.0012	0.005	0.8762	0.8812
22.4667	0.0034	0	0.8762	0.8762
22.5	0.0011	0.005	0.8775	0.8825
22.5333	0.0021	0.005	0.8841	0.8891
22.5667	-0.0005	0	0.8828	0.8828
22.6	0.0037	0.005	0.8867	0.8917
22.6333	0.0028	0	0.8788	0.8788
22.6667	0.0037	0.0313	0.8867	0.918
22.7	-0.0002	0.0181	0.888	0.9062
22.7333	0.0028	0.0181	0.8828	0.9009
22.7667	0.0018	0.005	0.8893	0.8943
22.8	0.0031	0.005	0.8867	0.8917
22.8333	0.0034	0.0181	0.8841	0.9022
22.8667	0.0034	0.0181	0.8867	0.9048
22.9	0.0057	0.005	0.8867	0.8917

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
22.9333	0.0028	0.005	0.8893	0.8943
22.9667	0.0031	0.0181	0.8854	0.9035
23	0.0005	0.005	0.8933	0.8983
23.0333	0.0018	0	0.8801	0.8801
23.0667	0.0044	0.0181	0.8907	0.9088
23.1	0.0024	0	0.8867	0.8867
23.1333	0.0021	0.005	0.8907	0.8956
23.1667	0.0024	0.005	0.888	0.893
23.2	0.0024	0.005	0.8893	0.8943
23.2333	0.0011	0.005	0.8946	0.8996
23.2667	0.0037	0.005	0.892	0.8969
23.3	0.0044	0.005	0.8907	0.8956
23.3333	0.0057	0.0313	0.8893	0.9206
23.3667	0.0054	0.0181	0.8959	0.914
23.4	0.0031	0.0181	0.8907	0.9088
23.4333	0.0041	0.005	0.892	0.8969
23.4667	0.0037	0	0.8893	0.8893
23.5	0.0008	0	0.8959	0.8959
23.5333	-0.0009	0.005	0.8959	0.9009
23.5667	0.0005	0	0.8946	0.8946
23.6	0.0028	0	0.8933	0.8933
23.6333	0.0011	0.005	0.8946	0.8996
23.6667	0.0044	0.005	0.8972	0.9022
23.7	0.0034	0.0181	0.892	0.9101
23.7333	0.0021	0.005	0.8933	0.8983
23.7667	0.0018	0.005	0.8972	0.9022
23.8	0.0021	0.0181	0.8907	0.9088
23.8333	0.0031	0	0.8959	0.8959
23.8667	0.0021	0.005	0.8959	0.9009
23.9	0.0034	0.005	0.8999	0.9048
23.9333	-0.0005	0.0313	0.8959	0.9272
23.9667	0.0018	0.005	0.8959	0.9009
24	0.0005	0.005	0.8933	0.8983
24.0333	0.0024	0.005	0.8972	0.9022
24.0667	0.0021	0	0.8946	0.8946
24.1	0.0005	0.005	0.8985	0.9035
24.1333	0.0011	0.005	0.8985	0.9035
24.1667	0.0018	0.0181	0.8999	0.918
24.2	0.0014	0.005	0.8985	0.9035
24.2333	0.0034	0.0181	0.8972	0.9154
24.2667	0.0018	0	0.9012	0.9012
24.3	0.0011	0.0181	0.8946	0.9127
24.3333	0.0041	0	0.8959	0.8959

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
24.3667	0.0031	0	0.8985	0.8985
24.4	0.0051	0.005	0.9012	0.9062
24.4333	0.0034	0.005	0.8985	0.9035
24.4667	0.0018	0.0181	0.9025	0.9206
24.5	0.0034	0	0.8972	0.8972
24.5333	0.0005	0.005	0.8999	0.9048
24.5667	0.0011	0.005	0.8985	0.9035
24.6	0.0031	0.0181	0.8985	0.9167
24.6333	0.0024	0.005	0.8933	0.8983
24.6667	0.0005	0.0181	0.8999	0.918
24.7	0.0037	0.005	0.9038	0.9088
24.7333	0.0014	0	0.8999	0.8999
24.7667	0.0024	0.005	0.9025	0.9075
24.8	0.0028	0	0.9012	0.9012
24.8333	0.0031	0.005	0.8959	0.9009
24.8667	0.0028	0.005	0.9012	0.9062
24.9	0.0034	0.005	0.8999	0.9048
24.9333	-0.0002	0	0.9012	0.9012
24.9667	0.0008	0.005	0.9025	0.9075
25	0.0018	0	0.9025	0.9025
25.0333	0.0024	0.005	0.8999	0.9048
25.0667	0.0008	0.0181	0.8999	0.918
25.1	0.0044	0	0.8985	0.8985
25.1333	0.0044	0.005	0.8999	0.9048
25.1667	0.0041	0.005	0.8999	0.9048
25.2	0.0051	0.005	0.8985	0.9035
25.2333	0.0034	0.0313	0.9012	0.9325
25.2667	0.0028	0.0181	0.9025	0.9206
25.3	0.0018	0	0.8999	0.8999
25.3333	0.0028	0.005	0.8985	0.9035
25.3667	0.0014	0.005	0.8999	0.9048
25.4	0.0037	0.0181	0.9012	0.9193
25.4333	0.0037	0.0181	0.9038	0.9219
25.4667	0.0031	0.005	0.8959	0.9009
25.5	0.0005	0.005	0.8999	0.9048
25.5333	0.0021	0.0181	0.9025	0.9206
25.5667	0.0018	0	0.9012	0.9012
25.6	0.0014	0.005	0.8999	0.9048
25.6333	0.0037	0.005	0.9025	0.9075
25.6667	0.0047	0	0.9012	0.9012
25.7	0.0021	0.005	0.9051	0.9101
25.7333	0.0018	0	0.8999	0.8999
25.7667	0.0028	0	0.8999	0.8999

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
25.8	0.0028	0.005	0.8985	0.9035
25.8333	0.0044	0	0.8972	0.8972
25.8667	0.0037	0.0181	0.8999	0.918
25.9	0.0028	0.0181	0.9025	0.9206
25.9333	0.0024	0.0181	0.9025	0.9206
25.9667	0.0044	0	0.9012	0.9012
26	0.0031	0.0181	0.9038	0.9219
26.0333	0.0014	0	0.8946	0.8946
26.0667	0.0001	0.005	0.9051	0.9101
26.1	0.0044	0.0181	0.9012	0.9193
26.1333	0.0044	0.0181	0.8999	0.918
26.1667	0.0028	0	0.8999	0.8999
26.2	0.0014	0.0181	0.8985	0.9167
26.2333	0.0014	0.005	0.8999	0.9048
26.2667	0.0014	0	0.9025	0.9025
26.3	0.0021	0.005	0.8999	0.9048
26.3333	0.0008	0.005	0.9051	0.9101
26.3667	0.0018	0.005	0.9012	0.9062
26.4	0.0031	0	0.8999	0.8999
26.4333	0.0034	0	0.8999	0.8999
26.4667	0.0014	0	0.9012	0.9012
26.5	0.0028	0.0181	0.9025	0.9206
26.5333	0.0037	0.005	0.9025	0.9075
26.5667	0.0041	0	0.9051	0.9051
26.6	0.0028	0.005	0.9012	0.9062
26.6333	0.0021	0.005	0.8985	0.9035
26.6667	0.0041	0	0.9012	0.9012
26.7	0.0031	0.005	0.9025	0.9075
26.7333	0.0014	0.005	0.8999	0.9048
26.7667	0.0014	0.005	0.9012	0.9062
26.8	0.0005	0.005	0.9025	0.9075
26.8333	0.0034	0	0.8985	0.8985
26.8667	0.0034	0.0181	0.8985	0.9167
26.9	-0.0002	0	0.8999	0.8999
26.9333	0.0024	0.005	0.8999	0.9048
26.9667	0.0011	0.005	0.9025	0.9075
27	0.0014	0	0.9012	0.9012
27.0333	-0.0009	0.005	0.8999	0.9048
27.0667	0.0005	0.005	0.8985	0.9035
27.1	0.0037	0.0181	0.8972	0.9154
27.1333	0.0014	0.005	0.8972	0.9022
27.1667	0.0005	0.005	0.9012	0.9062
27.2	0.0021	0	0.8959	0.8959

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
27.2333	0.0021	0.005	0.9025	0.9075
27.2667	0.0014	0.005	0.8999	0.9048
27.3	0.0034	0	0.9038	0.9038
27.3333	0.0008	0.005	0.8985	0.9035
27.3667	0.0057	0.0181	0.8999	0.918
27.4	0.0047	0.005	0.8985	0.9035
27.4333	0.0028	0	0.9012	0.9012
27.4667	0.0044	0.005	0.8946	0.8996
27.5	0.0034	0.005	0.8972	0.9022
27.5333	0.0024	0.005	0.8999	0.9048
27.5667	0.007	0	0.8959	0.8959
27.6	-0.0002	0.005	0.9012	0.9062
27.6333	0.0028	0.0181	0.8999	0.918
27.6667	0.0034	0	0.9012	0.9012
27.7	0.0021	0.0181	0.8985	0.9167
27.7333	0.0021	0.005	0.9012	0.9062
27.7667	0.0008	0.0181	0.8946	0.9127
27.8	0.0011	0.0181	0.8959	0.914
27.8333	-0.0002	0.0181	0.8959	0.914
27.8667	-0.0015	0.0181	0.8985	0.9167
27.9	0.0021	0	0.8985	0.8985
27.9333	0.0028	0.005	0.8972	0.9022
27.9667	0.0021	0.005	0.9012	0.9062
28	0.0021	0	0.8933	0.8933
28.0333	0.0005	0.005	0.8933	0.8983
28.0667	0.0044	0	0.8985	0.8985
28.1	0.0001	0	0.8946	0.8946
28.1333	0.0014	0.005	0.8946	0.8996
28.1667	0.0024	0	0.8972	0.8972
28.2	0.0018	0.0181	0.8972	0.9154
28.2333	0.0021	0.005	0.8999	0.9048
28.2667	0.0008	0.0181	0.8972	0.9154
28.3	0.0041	0	0.8933	0.8933
28.3333	0.0031	0.005	0.8946	0.8996
28.3667	0.0054	0.0181	0.9012	0.9193
28.4	0.0024	0.0181	0.8999	0.918
28.4333	0.0021	0.005	0.8985	0.9035
28.4667	0.0028	0.005	0.8972	0.9022
28.5	0.0031	0.0181	0.8972	0.9154
28.5333	0.0011	0.005	0.8985	0.9035
28.5667	0.0021	0.0181	0.8985	0.9167
28.6	0.0008	0	0.8946	0.8946
28.6333	-0.0005	0.005	0.8946	0.8996

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
28.6667	0.0031	0	0.892	0.892
28.7	0.0021	0.0313	0.8946	0.9259
28.7333	0.0037	0.005	0.8985	0.9035
28.7667	0.0024	0.005	0.8999	0.9048
28.8	0.0011	0.005	0.8999	0.9048
28.8333	0.0028	0	0.8972	0.8972
28.8667	0.0008	0.0181	0.8972	0.9154
28.9	0.0031	0	0.8985	0.8985
28.9333	0.0031	0.005	0.8959	0.9009
28.9667	-0.0002	0.005	0.8946	0.8996
29	0.0005	0.0181	0.8985	0.9167
29.0333	0.0021	0.005	0.8946	0.8996
29.0667	0.0047	0.0181	0.8959	0.914
29.1	0.0034	0.005	0.8946	0.8996
29.1333	0.0011	0.005	0.8972	0.9022
29.1667	-0.0012	0.005	0.8933	0.8983
29.2	0.0044	0	0.8946	0.8946
29.2333	0.0014	0.005	0.9012	0.9062
29.2667	0.0031	0.005	0.8985	0.9035
29.3	0.0008	0.005	0.9012	0.9062
29.3333	0.0021	0.005	0.8959	0.9009
29.3667	0.0024	0.005	0.8972	0.9022
29.4	0.0021	0	0.8959	0.8959
29.4333	0.0021	0.0181	0.8972	0.9154
29.4667	0.0024	0.005	0.8999	0.9048
29.5	0.0031	0.005	0.8999	0.9048
29.5333	-0.0012	0.0181	0.9012	0.9193
29.5667	0.0028	0	0.8933	0.8933
29.6	0.0018	0.0181	0.8972	0.9154
29.6333	0.0014	0.0181	0.8959	0.914
29.6667	0.0008	0.005	0.8972	0.9022
29.7	0.0037	0.0181	0.9038	0.9219
29.7333	-0.0012	0.005	0.8972	0.9022
29.7667	0.0034	0.005	0.8972	0.9022
29.8	0.0021	0.005	0.892	0.8969
29.8333	0.0047	0.0313	0.8972	0.9285
29.8667	0.0031	0.005	0.9012	0.9062
29.9	0.0021	0.005	0.8972	0.9022
29.9333	0.0014	0.005	0.8946	0.8996
29.9667	0.0011	0.005	0.8999	0.9048
30	0.0018	0.005	0.8999	0.9048
30.0333	0.0044	0	0.8999	0.8999
30.0667	0.0021	0	0.9012	0.9012

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
30.1	0.0014	0.0181	0.8985	0.9167
30.1333	0.0051	0	0.8946	0.8946
30.1667	0.0047	0.005	0.8985	0.9035
30.2	0.0018	0.0181	0.8999	0.918
30.2333	0.0024	0	0.8946	0.8946
30.2667	0.0031	0	0.8959	0.8959
30.3	0.0044	0	0.8959	0.8959
30.3333	0.0037	0	0.8985	0.8985
30.3667	0.0021	0	0.8999	0.8999
30.4	0.0018	0	0.892	0.892
30.4333	0.0005	0.005	0.8972	0.9022
30.4667	0.0001	0.005	0.8999	0.9048
30.5	0.0031	0.0313	0.9038	0.9351
30.5333	0.0037	0.005	0.9012	0.9062
30.5667	0.0024	0.005	0.8985	0.9035
30.6	0.0028	0.005	0.9038	0.9088
30.6333	0.0008	0.0181	0.9025	0.9206
30.6667	-0.0005	0.005	0.9012	0.9062
30.7	0.0011	0.005	0.9012	0.9062
30.7333	-0.0012	0.0181	0.8972	0.9154
30.7667	0.0024	0.005	0.9012	0.9062
30.8	0.0041	0.0181	0.8972	0.9154
30.8333	0.0014	0.0313	0.8999	0.9311
30.8667	0.0005	0	0.8972	0.8972
30.9	0.0014	0.005	0.8985	0.9035
30.9333	-0.0009	0.005	0.8946	0.8996
30.9667	0.0031	0.005	0.8999	0.9048
31	0.0014	0.005	0.8999	0.9048
31.0333	0.0021	0.005	0.8985	0.9035
31.0667	0.0028	0.0181	0.9025	0.9206
31.1	0.0034	0.005	0.9025	0.9075
31.1333	0.0011	0.005	0.8999	0.9048
31.1667	0.0028	0.005	0.8985	0.9035
31.2	0.0031	0	0.8959	0.8959
31.2333	0.0005	0.005	0.9051	0.9101
31.2667	0.0001	0	0.8999	0.8999
31.3	-0.0009	0	0.9051	0.9051
31.3333	0.0011	0.005	0.9012	0.9062
31.3667	0.0001	0.005	0.9012	0.9062
31.4	0.0014	0.0181	0.9012	0.9193
31.4333	0.0031	0	0.9012	0.9012
31.4667	0.0037	0.005	0.9012	0.9062
31.5	0.0021	0.005	0.8972	0.9022



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
31.5333	0.0018	0	0.8946	0.8946
31.5667	-0.0012	0.005	0.9012	0.9062
31.6	0.0021	0	0.9051	0.9051
31.6333	-0.0018	0.005	0.9051	0.9101
31.6667	0.0021	0.005	0.9012	0.9062
31.7	0.0005	0.005	0.9012	0.9062
31.7333	0.0028	0.005	0.9012	0.9062
31.7667	0.0001	0.005	0.9012	0.9062
31.8	0.0011	0	0.9038	0.9038
31.8333	-0.0005	0	0.8985	0.8985
31.8667	0.0005	0.005	0.9038	0.9088
31.9	0.0014	0	0.9038	0.9038
31.9333	0.0014	0.0181	0.9012	0.9193
31.9667	0.0047	0	0.8985	0.8985
32	0.0008	0.005	0.9025	0.9075
32.0333	0.0008	0.005	0.9025	0.9075
32.0667	0.0021	0	0.8985	0.8985
32.1	0.0044	0.005	0.8999	0.9048
32.1333	0.0018	0.005	0.8999	0.9048
32.1667	-0.0009	0	0.8972	0.8972
32.2	0.0024	0.0181	0.8972	0.9154
32.2333	0.0008	0.005	0.8999	0.9048
32.2667	-0.0002	0.0181	0.9038	0.9219
32.3	0.0018	0.005	0.8972	0.9022
32.3333	0.0021	0.005	0.9025	0.9075
32.3667	0.0008	0	0.9012	0.9012
32.4	0.0014	0	0.9025	0.9025
32.4333	0.0021	0	0.8959	0.8959
32.4667	0.0008	0.0181	0.9025	0.9206
32.5	0.0001	0.005	0.8999	0.9048
32.5333	0.0001	0	0.9038	0.9038
32.5667	0.0034	0.005	0.9064	0.9114
32.6	-0.0005	0.0181	0.9038	0.9219
32.6333	0.0021	0.0181	0.8946	0.9127
32.6667	-0.0009	0.005	0.8959	0.9009
32.7	0.0041	0.005	0.8959	0.9009
32.7333	0.0011	0.005	0.9025	0.9075
32.7667	0.0021	0.005	0.8999	0.9048
32.8	0.0024	0.005	0.9038	0.9088
32.8333	0.0031	0.0181	0.8985	0.9167
32.8667	0.0037	0.0181	0.8999	0.918
32.9	-0.0002	0.005	0.9025	0.9075
32.9333	0.0028	0.005	0.8999	0.9048

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
32.9667	0.0014	0.005	0.9012	0.9062
33	0.0021	0	0.9025	0.9025
33.0333	0.0024	0	0.8999	0.8999
33.0667	-0.0012	0.005	0.8999	0.9048
33.1	0.0028	0.005	0.8999	0.9048
33.1333	0.0018	0.005	0.8985	0.9035
33.1667	0.0047	0.005	0.9012	0.9062
33.2	0.0031	0.005	0.9051	0.9101
33.2333	0.0028	0	0.9012	0.9012
33.2667	0.0005	0	0.8999	0.8999
33.3	0.0014	0	0.8959	0.8959
33.3333	0.0021	0.005	0.9012	0.9062
33.3667	0.0011	0.0181	0.8985	0.9167
33.4	0.0018	0.0181	0.8959	0.914
33.4333	0.0041	0.005	0.8999	0.9048
33.4667	0.0034	0.005	0.8972	0.9022
33.5	0.0008	0.005	0.8972	0.9022
33.5333	-0.0005	0	0.8985	0.8985
33.5667	0.0014	0.005	0.9025	0.9075
33.6	0.0024	0.0181	0.8972	0.9154
33.6333	0.0034	0.005	0.8972	0.9022
33.6667	0.0005	0	0.8985	0.8985
33.7	-0.0025	0.005	0.8985	0.9035
33.7333	0.0024	0.005	0.8972	0.9022
33.7667	-0.0005	0.005	0.8999	0.9048
33.8	0.0011	0	0.9012	0.9012
33.8333	0.0031	0	0.8985	0.8985
33.8667	0.0037	0.005	0.8972	0.9022
33.9	0.0037	0.005	0.8959	0.9009
33.9333	0.0024	0.0181	0.8959	0.914
33.9667	0.0031	0.0181	0.892	0.9101
34	0.0024	0.005	0.8933	0.8983
34.0333	0.0005	0.005	0.8959	0.9009
34.0667	0.0024	0.005	0.8985	0.9035
34.1	0.0028	0.005	0.8959	0.9009
34.1333	-0.0018	0.005	0.8959	0.9009
34.1667	0.0008	0	0.8933	0.8933
34.2	0.0011	0.005	0.892	0.8969
34.2333	-0.0002	0.005	0.892	0.8969
34.2667	0.0031	0	0.892	0.892
34.3	0.0011	0.005	0.8933	0.8983
34.3333	0.0024	0.005	0.8972	0.9022
34.3667	0.0024	0.005	0.8907	0.8956

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
34.4	0.0008	0	0.8959	0.8959
34.4333	0.0008	0.005	0.8972	0.9022
34.4667	-0.0002	0.005	0.8946	0.8996
34.5	0.0028	0	0.8946	0.8946
34.5333	0.0014	0.005	0.8946	0.8996
34.5667	0.0005	0.005	0.8907	0.8956
34.6	0.0008	0.005	0.8972	0.9022
34.6333	-0.0018	0.005	0.8959	0.9009
34.6667	0.0014	0.0181	0.892	0.9101
34.7	-0.0009	0.0313	0.8933	0.9246
34.7333	0.0005	0.0181	0.8946	0.9127
34.7667	0.0031	0.0181	0.8985	0.9167
34.8	0.0018	0.005	0.8972	0.9022
34.8333	0.0034	0.005	0.8972	0.9022
34.8667	0.0011	0.005	0.8959	0.9009
34.9	0.0005	0.005	0.8893	0.8943
34.9333	0.0018	0.005	0.892	0.8969
34.9667	-0.0018	0	0.8972	0.8972
35	-0.0002	0.005	0.8933	0.8983
35.0333	0.0037	0	0.8933	0.8933
35.0667	0.0018	0	0.8933	0.8933
35.1	0.0001	0	0.892	0.892
35.1333	0.0028	0.0181	0.8946	0.9127
35.1667	-0.0002	0.0181	0.8907	0.9088
35.2	0.0031	0.005	0.8907	0.8956
35.2333	0.0014	0.005	0.892	0.8969
35.2667	0.0014	0.005	0.892	0.8969
35.3	0.0011	0.005	0.8972	0.9022
35.3333	-0.0005	0.0181	0.888	0.9062
35.3667	-0.0015	0	0.8985	0.8985
35.4	-0.0002	0	0.892	0.892
35.4333	0.0021	0	0.8907	0.8907
35.4667	-0.0022	0.005	0.892	0.8969
35.5	0.0024	0.005	0.8933	0.8983
35.5333	-0.0009	0	0.8907	0.8907
35.5667	-0.0015	0.005	0.8946	0.8996
35.6	0.0008	0.0181	0.8893	0.9075
35.6333	0.0031	0.0181	0.8893	0.9075
35.6667	-0.0005	0.0181	0.8946	0.9127
35.7	0.0005	0	0.8867	0.8867
35.7333	0.0011	0.005	0.8907	0.8956
35.7667	0.0001	0.005	0.8946	0.8996
35.8	0.0008	0	0.8893	0.8893

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
35.8333	-0.0002	0	0.8867	0.8867
35.8667	0.0021	0.005	0.8867	0.8917
35.9	0.0014	0.005	0.8867	0.8917
35.9333	0.0005	0.005	0.8893	0.8943
35.9667	0.0021	0	0.8841	0.8841
36	0.007	0.005	0.8867	0.8917
36.0333	0.0008	0.0181	0.8946	0.9127
36.0667	0.0014	0	0.888	0.888
36.1	0.0001	0.0181	0.8893	0.9075
36.1333	0.0001	0.005	0.8867	0.8917
36.1667	0.0011	0	0.8867	0.8867
36.2	-0.0025	0.0181	0.8893	0.9075
36.2333	-0.0005	0.005	0.8893	0.8943
36.2667	0.0018	0	0.8854	0.8854
36.3	0.0014	0	0.888	0.888
36.3333	-0.0005	0.005	0.8907	0.8956
36.3667	0.0024	0	0.8893	0.8893
36.4	0.0011	0.005	0.8854	0.8904
36.4333	-0.0002	0.005	0.888	0.893
36.4667	0.0008	0	0.8828	0.8828
36.5	-0.0012	0.005	0.8841	0.8891
36.5333	-0.0012	0	0.8854	0.8854
36.5667	-0.0012	0	0.888	0.888
36.6	0.0014	0	0.8841	0.8841
36.6333	-0.0015	0.005	0.8841	0.8891
36.6667	0.0031	0	0.8867	0.8867
36.7	0.0034	0.005	0.8893	0.8943
36.7333	0.0031	0.0181	0.8841	0.9022
36.7667	0.0031	0	0.8828	0.8828
36.8	-0.0005	0.005	0.8801	0.8851
36.8333	-0.0009	0.005	0.8828	0.8877
36.8667	0.0031	0	0.8854	0.8854
36.9	-0.0018	0.005	0.8814	0.8864
36.9333	-0.0002	0	0.8854	0.8854
36.9667	0.0001	0.005	0.8828	0.8877
37	-0.0002	0	0.8801	0.8801
37.0333	-0.0015	0.0181	0.8788	0.8969
37.0667	0.0024	0	0.8828	0.8828
37.1	-0.0002	0	0.8801	0.8801
37.1333	0.0008	0	0.8854	0.8854
37.1667	-0.0022	0.005	0.8828	0.8877
37.2	0.0014	0.005	0.8801	0.8851
37.2333	-0.0012	0	0.8801	0.8801

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
37.2667	0.0011	0.005	0.8828	0.8877
37.3	0.0028	0.005	0.8828	0.8877
37.3333	-0.0002	0	0.8788	0.8788
37.3667	0.0021	0.005	0.8775	0.8825
37.4	0.0005	0.005	0.8788	0.8838
37.4333	-0.0015	0.005	0.8867	0.8917
37.4667	0.0011	0.005	0.8814	0.8864
37.5	-0.0022	0.005	0.8801	0.8851
37.5333	-0.0018	0	0.8801	0.8801
37.5667	0.0024	0.005	0.8775	0.8825
37.6	0.0014	0	0.8801	0.8801
37.6333	-0.0009	0.005	0.8788	0.8838
37.6667	0.0021	0.0181	0.8814	0.8996
37.7	-0.0005	0	0.8736	0.8736
37.7333	0.0001	0.005	0.8801	0.8851
37.7667	0.0028	0.005	0.8775	0.8825
37.8	0.0008	0	0.8749	0.8749
37.8333	0.0001	0.0181	0.8722	0.8904
37.8667	0.0018	0.005	0.8788	0.8838
37.9	-0.0009	0.0181	0.8749	0.893
37.9333	-0.0005	0.005	0.8736	0.8785
37.9667	0.0037	0.005	0.8749	0.8799
38	0.0028	0.005	0.8788	0.8838
38.0333	-0.0009	0	0.8736	0.8736
38.0667	0.0011	0	0.8736	0.8736
38.1	0.0005	0.005	0.8788	0.8838
38.1333	0.0018	0	0.8762	0.8762
38.1667	-0.0022	0.0181	0.8736	0.8917
38.2	0.0014	0.005	0.8762	0.8812
38.2333	0.0031	0	0.8775	0.8775
38.2667	0.0008	0.005	0.8709	0.8759
38.3	0.0021	0.005	0.8749	0.8799
38.3333	-0.0018	0.005	0.8709	0.8759
38.3667	-0.0025	0	0.8722	0.8722
38.4	0.0011	0.005	0.8709	0.8759
38.4333	-0.0032	0.005	0.8736	0.8785
38.4667	0.0001	0.005	0.8736	0.8785
38.5	-0.0009	0.005	0.8736	0.8785
38.5333	-0.0012	0.005	0.8696	0.8746
38.5667	0.0005	0.005	0.8749	0.8799
38.6	0.0011	0	0.867	0.867
38.6333	0.0005	0.0181	0.8683	0.8864
38.6667	0.0008	0.005	0.8722	0.8772

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
38.7	-0.0005	0	0.8696	0.8696
38.7333	0.0014	0.005	0.8696	0.8746
38.7667	-0.0022	0.005	0.8696	0.8746
38.8	0.0024	0	0.8709	0.8709
38.8333	-0.0002	0.005	0.8683	0.8733
38.8667	0.0024	0	0.8696	0.8696
38.9	-0.0012	0.005	0.8696	0.8746
38.9333	0.0014	0	0.8696	0.8696
38.9667	-0.0025	0.0181	0.8683	0.8864
39	-0.0022	0.005	0.8683	0.8733
39.0333	-0.0018	0.005	0.8683	0.8733
39.0667	0.0001	0.005	0.8683	0.8733
39.1	0.0005	0.005	0.8657	0.8707
39.1333	0.0001	0.005	0.8644	0.8693
39.1667	-0.0005	0.005	0.8657	0.8707
39.2	-0.0025	0.0181	0.8657	0.8838
39.2333	0.0011	0.005	0.8657	0.8707
39.2667	0.0011	0.005	0.8591	0.8641
39.3	0.0008	0.0181	0.8657	0.8838
39.3333	-0.0009	0.005	0.8683	0.8733
39.3667	0.0005	0	0.8657	0.8657
39.4	0.0001	0.005	0.8604	0.8654
39.4333	0.0014	0.005	0.8617	0.8667
39.4667	0.0005	0	0.8617	0.8617
39.5	-0.0009	0.005	0.867	0.872
39.5333	0.0005	0.005	0.863	0.868
39.5667	0.0011	0.005	0.8604	0.8654
39.6	-0.0015	0.005	0.8644	0.8693
39.6333	-0.0009	0.0181	0.8644	0.8825
39.6667	-0.0005	0.005	0.863	0.868
39.7	-0.0035	0.005	0.8591	0.8641
39.7333	-0.0002	0.005	0.8644	0.8693
39.7667	0.0005	0.005	0.8644	0.8693
39.8	0.0031	0.0181	0.863	0.8812
39.8333	-0.0015	0.005	0.8644	0.8693
39.8667	-0.0022	0.005	0.8644	0.8693
39.9	-0.0005	0.005	0.8604	0.8654
39.9333	0.0014	0.005	0.8657	0.8707
39.9667	0.0018	0	0.8644	0.8644
40	-0.0009	0.005	0.8591	0.8641
40.0333	-0.0012	0.005	0.8604	0.8654
40.0667	0.0005	0.005	0.8683	0.8733
40.1	0.0008	0.005	0.8893	0.8943

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
40.1333	-0.0015	0.0181	0.9104	0.9285
40.1667	-0.0035	0	0.9301	0.9301
40.2	-0.0015	0.0181	0.9485	0.9666
40.2333	-0.0018	0.005	0.9669	0.9719
40.2667	-0.0042	0	0.9788	0.9788
40.3	-0.0055	0.005	0.9958	1.0008
40.3333	-0.0025	0.005	1.0051	1.01
40.3667	-0.0048	0	1.0208	1.0208
40.4	-0.0058	0.0181	1.0353	1.0534
40.4333	-0.0055	0	1.0458	1.0458
40.4667	-0.0071	0	1.0524	1.0524
40.5	-0.0048	0.005	1.0655	1.0705
40.5333	-0.0055	0.0181	1.0695	1.0876
40.5667	-0.0048	0.005	1.0787	1.0837
40.6	-0.0051	0.005	1.0892	1.0942
40.6333	-0.0071	0.005	1.0984	1.1034
40.6667	-0.0061	0.0313	1.1103	1.1415
40.7	-0.0035	0.0181	1.1142	1.1323
40.7333	-0.0055	0	1.1247	1.1247
40.7667	-0.0055	0	1.13	1.13
40.8	-0.0065	0.0181	1.1392	1.1573
40.8333	-0.0058	0.0181	1.1405	1.1586
40.8667	-0.0084	0.005	1.1523	1.1573
40.9	-0.0074	0.005	1.155	1.1599
40.9333	-0.0005	0.0181	1.1721	1.1902
40.9667	0.0051	0.0181	1.2102	1.2283
41	0.0153	0	1.3049	1.3049
41.0333	0.0215	0	1.4469	1.4469
41.0667	0.0288	0	1.6218	1.6218
41.1	0.0353	0	1.8387	1.8387
41.1333	0.0426	0.005	2.036	2.041
41.1667	0.0511	0	2.199	2.199
41.2	0.0604	0.0181	2.3516	2.3697
41.2333	0.0683	0.005	2.5028	2.5078
41.2667	0.0775	0.005	2.6724	2.6774
41.3	0.0814	0.0181	2.8473	2.8655
41.3333	0.0841	0.005	3.0104	3.0154
41.3667	0.0943	0.005	3.1458	3.1508
41.4	0.0982	0	3.2773	3.2773
41.4333	0.1025	0.005	3.4022	3.4072
41.4667	0.1133	0	3.5364	3.5364
41.5	0.1183	0.0181	3.6679	3.686
41.5333	0.1239	0	3.7967	3.7967

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
41.5667	0.1262	0	3.9374	3.9374
41.6	0.1288	0	4.0913	4.0913
41.6333	0.1295	0.0181	4.2925	4.3106
41.6667	0.1249	0.005	4.5252	4.5302
41.7	0.1259	0.0181	4.6673	4.6854
41.7333	0.1361	0.005	4.7317	4.7367
41.7667	0.141	0.005	4.804	4.809
41.8	0.1486	0.0181	4.8908	4.9089
41.8333	0.1522	0.005	4.9736	4.9786
41.8667	0.1568	0	5.0657	5.0657
41.9	0.1607	0.005	5.1564	5.1614
41.9333	0.1637	0.0181	5.2577	5.2758
41.9667	0.168	0.005	5.3366	5.3416
42	0.1709	0.005	5.4391	5.4441
42.0333	0.1703	0.005	5.522	5.527
42.0667	0.1739	0.0181	5.6219	5.6401
42.1	0.1815	0	5.7127	5.7127
42.1333	0.1798	0	5.8152	5.8152
42.1667	0.1802	0.005	5.8981	5.9031
42.2	0.1805	0.005	5.9809	5.9859
42.2333	0.1759	0.005	6.073	6.0779
42.2667	0.1779	0	6.1479	6.1479
42.3	0.1779	0.0181	6.2229	6.241
42.3333	0.1815	0.005	6.2991	6.3041
42.3667	0.1831	0.005	6.3793	6.3843
42.4	0.1782	0.005	6.4464	6.4514
42.4333	0.1746	0.005	6.5148	6.5198
42.4667	0.1779	0.0181	6.5924	6.6105
42.5	0.1769	0.005	6.6502	6.6552
42.5333	0.1772	0	6.7278	6.7278
42.5667	0.1785	0	6.7909	6.7909
42.6	0.1788	0.005	6.8593	6.8643
42.6333	0.1746	0.005	6.9172	6.9222
42.6667	0.1779	0	6.9921	6.9921
42.7	0.1762	0.005	7.0421	7.0471
42.7333	0.1762	0.0181	7.1026	7.1207
42.7667	0.1765	0	7.167	7.167
42.8	0.1772	0.005	7.2249	7.2299
42.8333	0.1762	0.005	7.2854	7.2903
42.8667	0.1785	0	7.3393	7.3393
42.9	0.1762	0.005	7.4011	7.4061
42.9333	0.1798	0.005	7.4484	7.4534
42.9667	0.1795	0.005	7.5115	7.5165



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
43	0.1769	0	7.5668	7.5668
43.0333	0.1795	0	7.6273	7.6273
43.0667	0.1785	0.0181	7.6812	7.6993
43.1	0.1821	0.005	7.7351	7.7401
43.1333	0.1798	0.0181	7.7824	7.8006
43.1667	0.1805	0.005	7.8324	7.8374
43.2	0.1808	0.005	7.881	7.886
43.2333	0.1785	0	7.9442	7.9442
43.2667	0.1792	0.005	7.9876	7.9925
43.3	0.1828	0.0181	8.0428	8.0609
43.3333	0.1805	0	8.0822	8.0822
43.3667	0.1835	0	8.1322	8.1322
43.4	0.1844	0	8.1874	8.1874
43.4333	0.1828	0	8.2229	8.2229
43.4667	0.1825	0.0313	8.2716	8.3029
43.5	0.1815	0.005	8.3137	8.3187
43.5333	0.1805	0	8.3597	8.3597
43.5667	0.1835	0.005	8.411	8.416
43.6	0.1815	0.005	8.4636	8.4686
43.6333	0.1808	0	8.4991	8.4991
43.6667	0.1805	0.005	8.5543	8.5593
43.7	0.1825	0.005	8.5872	8.5922
43.7333	0.1795	0.005	8.6174	8.6224
43.7667	0.1838	0.0181	8.6621	8.6803
43.8	0.1798	0.005	8.7042	8.7092
43.8333	0.1821	0	8.7424	8.7424
43.8667	0.1811	0.005	8.7831	8.7881
43.9	0.1811	0	8.8186	8.8186
43.9333	0.1831	0.0181	8.8633	8.8815
43.9667	0.1785	0.0181	8.9002	8.9183
44	0.1818	0	8.9343	8.9343
44.0333	0.1795	0.005	8.9659	8.9709
44.0667	0.1805	0.005	9.004	9.009
44.1	0.1792	0	9.0422	9.0422
44.1333	0.1811	0	9.0764	9.0764
44.1667	0.1821	0.005	9.1092	9.1142
44.2	0.1805	0.005	9.1329	9.1379
44.2333	0.1831	0	9.1737	9.1737
44.2667	0.1844	0	9.2026	9.2026
44.3	0.1825	0.005	9.2276	9.2326
44.3333	0.1831	0.005	9.2736	9.2786
44.3667	0.1818	0.0181	9.3012	9.3194
44.4	0.1818	0.005	9.3315	9.3364

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
44.4333	0.1818	0.005	9.3578	9.3627
44.4667	0.1805	0	9.3841	9.3841
44.5	0.1802	0	9.4183	9.4183
44.5333	0.1811	0.005	9.4419	9.4469
44.5667	0.1811	0	9.4708	9.4708
44.6	0.1785	0.005	9.4919	9.4969
44.6333	0.1808	0.005	9.5221	9.5271
44.6667	0.1795	0.005	9.5537	9.5587
44.7	0.1792	0	9.5774	9.5774
44.7333	0.1795	0.005	9.605	9.61
44.7667	0.1805	0.005	9.6286	9.6336
44.8	0.1769	0.005	9.6576	9.6626
44.8333	0.1792	0.005	9.6734	9.6783
44.8667	0.1775	0	9.7049	9.7049
44.9	0.1782	0	9.726	9.726
44.9333	0.1798	0	9.7523	9.7523
44.9667	0.1775	0	9.7759	9.7759
45	0.1756	0.0181	9.7983	9.8164
45.0333	0.1775	0	9.8075	9.8075
45.0667	0.1772	0	9.8469	9.8469
45.1	0.1798	0.005	9.8653	9.8703
45.1333	0.1782	0	9.8824	9.8824
45.1667	0.1772	0.005	9.9101	9.915
45.2	0.1749	0	9.9232	9.9232
45.2333	0.1792	0	9.9456	9.9456
45.2667	0.1795	0	9.9626	9.9626
45.3	0.1775	0.005	9.9903	9.9952
45.3333	0.1756	0.005	10.0021	10.0071
45.3667	0.1769	0.005	10.0284	10.0334
45.4	0.1769	0	10.0455	10.0455
45.4333	0.1779	0.005	10.0652	10.0702
45.4667	0.1795	0.005	10.0902	10.0952
45.5	0.1769	0.005	10.1139	10.1189
45.5333	0.1762	0.005	10.127	10.132
45.5667	0.1779	0.005	10.1389	10.1438
45.6	0.1772	0.005	10.1678	10.1728
45.6333	0.1775	0	10.177	10.177
45.6667	0.1795	0	10.1967	10.1967
45.7	0.1742	0	10.2112	10.2112
45.7333	0.1749	0	10.2309	10.2309
45.7667	0.1798	0.005	10.2519	10.2569
45.8	0.1772	0.005	10.2677	10.2727
45.8333	0.1815	0	10.2901	10.2901

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
45.8667	0.1752	0	10.3098	10.3098
45.9	0.1756	0	10.3164	10.3164
45.9333	0.1775	0.005	10.3374	10.3424
45.9667	0.1795	0.005	10.3624	10.3674
46	0.1746	0.0181	10.3742	10.3924
46.0333	0.1798	0.005	10.3821	10.3871
46.0667	0.1749	0.005	10.4084	10.4134
46.1	0.1795	0	10.4137	10.4137
46.1333	0.1765	0	10.4334	10.4334
46.1667	0.1795	0	10.4597	10.4597
46.2	0.1772	0	10.4676	10.4676
46.2333	0.1779	0	10.4886	10.4886
46.2667	0.1775	0.005	10.5057	10.5107
46.3	0.1785	0	10.5123	10.5123
46.3333	0.1785	0.005	10.5373	10.5423
46.3667	0.1782	0.005	10.5491	10.5541
46.4	0.1798	0.005	10.5596	10.5646
46.4333	0.1785	0	10.5689	10.5689
46.4667	0.1752	0.005	10.5938	10.5988
46.5	0.1769	0.005	10.6149	10.6199
46.5333	0.1795	0.005	10.6149	10.6199
46.5667	0.1749	0	10.6307	10.6307
46.6	0.1772	0.005	10.6438	10.6488
46.6333	0.1798	0.005	10.6583	10.6633
46.6667	0.1788	0	10.678	10.678
46.7	0.1769	0	10.6846	10.6846
46.7333	0.1788	0	10.7017	10.7017
46.7667	0.1769	0.005	10.7056	10.7106
46.8	0.1792	0	10.724	10.724
46.8333	0.1805	0.005	10.7437	10.7487
46.8667	0.1798	0.005	10.7582	10.7632
46.9	0.1811	0.005	10.7674	10.7724
46.9333	0.1775	0.005	10.7766	10.7816
46.9667	0.1805	0.005	10.7937	10.7987
47	0.1785	0.005	10.8121	10.8171
47.0333	0.1779	0.005	10.8174	10.8224
47.0667	0.1779	0	10.8358	10.8358
47.1	0.1802	0	10.8371	10.8371
47.1333	0.1785	0	10.8634	10.8634
47.1667	0.1821	0.005	10.8581	10.8631
47.2	0.1798	0.005	10.8818	10.8868
47.2333	0.1808	0	10.8897	10.8897
47.2667	0.1769	0	10.8963	10.8963

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
47.3	0.1788	0.005	10.9094	10.9144
47.3333	0.1782	0	10.9265	10.9265
47.3667	0.1798	0	10.9449	10.9449
47.4	0.1779	0	10.9528	10.9528
47.4333	0.1772	0	10.9581	10.9581
47.4667	0.1772	0.0181	10.9725	10.9907
47.5	0.1779	0.005	10.9831	10.9881
47.5333	0.1798	0.0181	10.9975	11.0157
47.5667	0.1795	0	11.0067	11.0067
47.6	0.1802	0	11.0186	11.0186
47.6333	0.1811	0.005	11.037	11.042
47.6667	0.1818	0.0181	11.0436	11.0617
47.7	0.1769	0.0181	11.0514	11.0696
47.7333	0.1762	0	11.0633	11.0633
47.7667	0.1802	0	11.0699	11.0699
47.8	0.1838	0.0181	11.0883	11.1064
47.8333	0.1831	0.0181	11.1067	11.1248
47.8667	0.1838	0	11.1159	11.1159
47.9	0.1818	0	11.1211	11.1211
47.9333	0.1818	0	11.1343	11.1343
47.9667	0.1831	0	11.154	11.154
48	0.1825	0.005	11.1553	11.1603
48.0333	0.1848	0.005	11.1698	11.1748
48.0667	0.1825	0.005	11.1816	11.1866
48.1	0.1858	0	11.1895	11.1895
48.1333	0.1825	0	11.204	11.204
48.1667	0.1792	0	11.2224	11.2224
48.2	0.1828	0	11.225	11.225
48.2333	0.1831	0.005	11.2303	11.2353
48.2667	0.1851	0.0181	11.2513	11.2695
48.3	0.1844	0.005	11.2553	11.2603
48.3333	0.1828	0.005	11.2803	11.2852
48.3667	0.1805	0	11.2789	11.2789
48.4	0.1811	0.005	11.2842	11.2892
48.4333	0.1811	0	11.3	11.3
48.4667	0.1821	0	11.3052	11.3052
48.5	0.1821	0.005	11.3158	11.3207
48.5333	0.1811	0.0181	11.3276	11.3457
48.5667	0.1805	0	11.3302	11.3302
48.6	0.1792	0	11.3434	11.3434
48.6333	0.1785	0	11.3407	11.3407
48.6667	0.1775	0.005	11.3539	11.3589
48.7	0.1785	0	11.3552	11.3552

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
48.7333	0.1795	0.0181	11.367	11.3852
48.7667	0.1798	0	11.3697	11.3697
48.8	0.1765	0.005	11.3644	11.3694
48.8333	0.1772	0.005	11.3999	11.4049
48.8667	0.1805	0	11.3933	11.3933
48.9	0.1798	0	11.396	11.396
48.9333	0.1798	0.005	11.3986	11.4036
48.9667	0.1795	0.0181	11.4065	11.4246
49	0.1769	0	11.4104	11.4104
49.0333	0.1808	0	11.4196	11.4196
49.0667	0.1759	0.005	11.4236	11.4286
49.1	0.1765	0	11.4275	11.4275
49.1333	0.1792	0.005	11.4315	11.4365
49.1667	0.1792	0	11.4486	11.4486
49.2	0.1736	0	11.4473	11.4473
49.2333	0.1795	0	11.4525	11.4525
49.2667	0.1762	0.005	11.4683	11.4733
49.3	0.1782	0.005	11.4683	11.4733
49.3333	0.1775	0.0181	11.463	11.4812
49.3667	0.1732	0.005	11.4775	11.4825
49.4	0.1762	0.005	11.4775	11.4825
49.4333	0.1772	0.005	11.4841	11.4891
49.4667	0.1759	0	11.4801	11.4801
49.5	0.1762	0.005	11.4959	11.5009
49.5333	0.1779	0.005	11.4985	11.5035
49.5667	0.1762	0	11.5051	11.5051
49.6	0.1769	0	11.513	11.513
49.6333	0.1772	0	11.513	11.513
49.6667	0.1795	0	11.5235	11.5235
49.7	0.1779	0	11.5196	11.5196
49.7333	0.1788	0	11.5327	11.5327
49.7667	0.1762	0	11.5354	11.5354
49.8	0.1785	0	11.5314	11.5314
49.8333	0.1802	0	11.5459	11.5459
49.8667	0.1759	0.005	11.5511	11.5561
49.9	0.1752	0.0181	11.5538	11.5719
49.9333	0.1795	0.005	11.5446	11.5495
49.9667	0.1779	0	11.5735	11.5735
50	0.1805	0.0181	11.5603	11.5785
50.0333	0.1792	0.005	11.5735	11.5785
50.0667	0.1756	0.005	11.5827	11.5877
50.1	0.1749	0.005	11.5906	11.5956
50.1333	0.1759	0.005	11.584	11.589

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
50.1667	0.1762	0	11.5893	11.5893
50.2	0.1795	0.005	11.5985	11.6035
50.2333	0.1782	0.005	11.6024	11.6074
50.2667	0.1802	0	11.5998	11.5998
50.3	0.1752	0.005	11.6024	11.6074
50.3333	0.1769	0.0181	11.6129	11.6311
50.3667	0.1788	0.005	11.6208	11.6258
50.4	0.1762	0	11.6195	11.6195
50.4333	0.1788	0	11.6261	11.6261
50.4667	0.1775	0	11.63	11.63
50.5	0.1772	0.005	11.6314	11.6363
50.5333	0.1788	0.005	11.6432	11.6482
50.5667	0.1788	0	11.6392	11.6392
50.6	0.1779	0.005	11.6603	11.6653
50.6333	0.1811	0.005	11.6616	11.6666
50.6667	0.1775	0.005	11.6511	11.6561
50.7	0.1795	0	11.6669	11.6669
50.7333	0.1775	0	11.6695	11.6695
50.7667	0.1779	0.005	11.6721	11.6771
50.8	0.1785	0.0181	11.6826	11.7008
50.8333	0.1795	0.005	11.6853	11.6902
50.8667	0.1779	0.005	11.6866	11.6916
50.9	0.1772	0	11.6945	11.6945
50.9333	0.1772	0.005	11.7024	11.7073
50.9667	0.1792	0.005	11.7037	11.7087
51	0.1811	0.005	11.6997	11.7047
51.0333	0.1802	0	11.705	11.705
51.0667	0.1779	0	11.7142	11.7142
51.1	0.1792	0	11.7063	11.7063
51.1333	0.1821	0	11.726	11.726
51.1667	0.1779	0	11.726	11.726
51.2	0.1835	0	11.7287	11.7287
51.2333	0.1802	0.005	11.7405	11.7455
51.2667	0.1756	0.005	11.7365	11.7415
51.3	0.1795	0	11.7431	11.7431
51.3333	0.1792	0	11.7431	11.7431
51.3667	0.1779	0	11.7497	11.7497
51.4	0.1805	0.005	11.7589	11.7639
51.4333	0.1825	0	11.7602	11.7602
51.4667	0.1792	0.005	11.7668	11.7718
51.5	0.1802	0	11.7655	11.7655
51.5333	0.1782	0	11.7628	11.7628
51.5667	0.1805	0	11.7747	11.7747

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
51.6	0.1772	0.005	11.7589	11.7639
51.6333	0.1795	0	11.7786	11.7786
51.6667	0.1795	0.0181	11.7839	11.802
51.7	0.1802	0.0181	11.7852	11.8033
51.7333	0.1808	0.005	11.7852	11.7902
51.7667	0.1828	0	11.7826	11.7826
51.8	0.1821	0	11.8115	11.8115
51.8333	0.1782	0	11.7918	11.7918
51.8667	0.1798	0	11.797	11.797
51.9	0.1779	0.005	11.8102	11.8152
51.9333	0.1772	0.005	11.8207	11.8257
51.9667	0.1759	0	11.8299	11.8299
52	0.1795	0.0181	11.8233	11.8415
52.0333	0.1785	0	11.8102	11.8102
52.0667	0.1818	0.0313	11.8247	11.8559
52.1	0.1772	0	11.8273	11.8273
52.1333	0.1808	0.005	11.8299	11.8349
52.1667	0.1775	0.005	11.8273	11.8323
52.2	0.1779	0.005	11.8378	11.8428
52.2333	0.1779	0.005	11.8352	11.8402
52.2667	0.1795	0.005	11.8496	11.8546
52.3	0.1792	0.005	11.8417	11.8467
52.3333	0.1792	0.005	11.8483	11.8533
52.3667	0.1802	0	11.8536	11.8536
52.4	0.1818	0	11.8588	11.8588
52.4333	0.1779	0.005	11.8615	11.8665
52.4667	0.1769	0.005	11.8588	11.8638
52.5	0.1805	0	11.8615	11.8615
52.5333	0.1808	0.0313	11.8602	11.8914
52.5667	0.1769	0.005	11.8641	11.8691
52.6	0.1765	0	11.8654	11.8654
52.6333	0.1798	0.005	11.8773	11.8822
52.6667	0.1825	0.005	11.8773	11.8822
52.7	0.1792	0.005	11.8904	11.8954
52.7333	0.1785	0	11.8773	11.8773
52.7667	0.1762	0.0181	11.8878	11.9059
52.8	0.1808	0.005	11.8917	11.8967
52.8333	0.1798	0.0181	11.8878	11.9059
52.8667	0.1785	0.005	11.8825	11.8875
52.9	0.1811	0	11.8904	11.8904
52.9333	0.1765	0.005	11.9022	11.9072
52.9667	0.1805	0.005	11.9088	11.9138
53	0.1788	0.005	11.8983	11.9033

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
53.0333	0.1775	0.005	11.9062	11.9112
53.0667	0.1815	0	11.9154	11.9154
53.1	0.1756	0.005	11.9062	11.9112
53.1333	0.1808	0	11.918	11.918
53.1667	0.1775	0	11.9128	11.9128
53.2	0.1808	0.005	11.922	11.9269
53.2333	0.1821	0.0181	11.9246	11.9427
53.2667	0.1792	0.0181	11.9193	11.9375
53.3	0.1815	0.005	11.9259	11.9309
53.3333	0.1792	0.005	11.9338	11.9388
53.3667	0.1788	0.005	11.9417	11.9467
53.4	0.1821	0.005	11.9325	11.9375
53.4333	0.1795	0	11.9325	11.9325
53.4667	0.1795	0	11.9404	11.9404
53.5	0.1795	0	11.9456	11.9456
53.5333	0.1831	0.005	11.9456	11.9506
53.5667	0.1805	0.0181	11.9483	11.9664
53.6	0.1785	0	11.9509	11.9509
53.6333	0.1805	0.005	11.9588	11.9638
53.6667	0.1798	0	11.9575	11.9575
53.7	0.1785	0	11.9535	11.9535
53.7333	0.1798	0	11.9614	11.9614
53.7667	0.1805	0.005	11.9588	11.9638
53.8	0.1798	0	11.9588	11.9588
53.8333	0.1785	0.0313	11.9759	12.0072
53.8667	0.1825	0.005	11.9732	11.9782
53.9	0.1798	0	11.9719	11.9719
53.9333	0.1802	0.005	11.9759	11.9809
53.9667	0.1805	0.005	11.9746	11.9795
54	0.1779	0.005	11.9917	11.9966
54.0333	0.1792	0.005	11.9759	11.9809
54.0667	0.1811	0.005	11.9824	11.9874
54.1	0.1798	0	11.9864	11.9864
54.1333	0.1828	0.005	11.9917	11.9966
54.1667	0.1825	0.0181	12.0009	12.019
54.2	0.1808	0	11.993	11.993
54.2333	0.1828	0	11.989	11.989
54.2667	0.1815	0.005	12.0035	12.0085
54.3	0.1792	0	12.0114	12.0114
54.3333	0.1802	0	12.0087	12.0087
54.3667	0.1795	0.0181	12.0009	12.019
54.4	0.1785	0	11.9943	11.9943
54.4333	0.1798	0.0313	12.0219	12.0532



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
54.4667	0.1818	0.005	12.0074	12.0124
54.5	0.1811	0.005	12.0087	12.0137
54.5333	0.1828	0.005	12.0153	12.0203
54.5667	0.1795	0.005	12.0114	12.0164
54.6	0.1772	0.0181	12.0114	12.0295
54.6333	0.1779	0.005	12.018	12.0229
54.6667	0.1808	0	12.0245	12.0245
54.7	0.1788	0	12.0258	12.0258
54.7333	0.1779	0.005	12.0193	12.0243
54.7667	0.1795	0.005	12.0298	12.0348
54.8	0.1795	0.005	12.0311	12.0361
54.8333	0.1795	0	12.0311	12.0311
54.8667	0.1798	0.0181	12.035	12.0532
54.9	0.1785	0.005	12.0403	12.0453
54.9333	0.1825	0.005	12.0469	12.0519
54.9667	0.1811	0.005	12.0416	12.0466
55	0.1749	0	12.0482	12.0482
55.0333	0.1772	0.005	12.0495	12.0545
55.0667	0.1792	0	12.0416	12.0416
55.1	0.1795	0	12.0548	12.0548
55.1333	0.1841	0.005	12.0561	12.0611
55.1667	0.1818	0.005	12.0613	12.0663
55.2	0.1818	0	12.0521	12.0521
55.2333	0.1811	0.005	12.0548	12.0598
55.2667	0.1831	0	12.064	12.064
55.3	0.1821	0.005	12.0719	12.0769
55.3333	0.1831	0.005	12.0706	12.0755
55.3667	0.1798	0.0181	12.064	12.0821
55.4	0.1831	0	12.0679	12.0679
55.4333	0.1779	0.005	12.0706	12.0755
55.4667	0.1821	0	12.0758	12.0758
55.5	0.1811	0.005	12.0798	12.0847
55.5333	0.1831	0.0181	12.0798	12.0979
55.5667	0.1821	0.005	12.0942	12.0992
55.6	0.1811	0.005	12.0916	12.0966
55.6333	0.1811	0	12.0876	12.0876
55.6667	0.1811	0	12.0955	12.0955
55.7	0.1765	0.005	12.0929	12.0979
55.7333	0.1782	0	12.0903	12.0903
55.7667	0.1831	0	12.1021	12.1021
55.8	0.1802	0	12.1087	12.1087
55.8333	0.1811	0	12.0929	12.0929
55.8667	0.1798	0.005	12.1034	12.1084

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
55.9	0.1818	0.005	12.0995	12.1045
55.9333	0.1802	0	12.1113	12.1113
55.9667	0.1802	0.005	12.1087	12.1137
56	0.1795	0.005	12.0969	12.1018
56.0333	0.1785	0.005	12.1061	12.111
56.0667	0.1818	0	12.1153	12.1153
56.1	0.1805	0.005	12.1113	12.1163
56.1333	0.1772	0	12.1153	12.1153
56.1667	0.1772	0.005	12.1192	12.1242
56.2	0.1818	0	12.1061	12.1061
56.2333	0.1792	0.005	12.11	12.115
56.2667	0.1788	0.0181	12.1245	12.1426
56.3	0.1788	0.005	12.1139	12.1189
56.3333	0.1792	0	12.1232	12.1232
56.3667	0.1769	0.005	12.1126	12.1176
56.4	0.1772	0	12.1271	12.1271
56.4333	0.1795	0	12.1192	12.1192
56.4667	0.1765	0	12.1192	12.1192
56.5	0.1792	0	12.1271	12.1271
56.5333	0.1775	0.0181	12.1324	12.1505
56.5667	0.1811	0	12.1113	12.1113
56.6	0.1802	0	12.1218	12.1218
56.6333	0.1821	0	12.131	12.131
56.6667	0.1821	0	12.1389	12.1389
56.7	0.1821	0.005	12.1337	12.1387
56.7333	0.1792	0.005	12.1442	12.1492
56.7667	0.1828	0.005	12.1337	12.1387
56.8	0.1788	0.005	12.1402	12.1452
56.8333	0.1825	0.005	12.1363	12.1413
56.8667	0.1795	0	12.135	12.135
56.9	0.1825	0	12.1429	12.1429
56.9333	0.1818	0	12.1429	12.1429
56.9667	0.1795	0	12.1534	12.1534
57	0.1779	0.005	12.1416	12.1465
57.0333	0.1821	0.005	12.1402	12.1452
57.0667	0.1811	0.005	12.1547	12.1597
57.1	0.1798	0.005	12.1573	12.1623
57.1333	0.1825	0.005	12.16	12.165
57.1667	0.1831	0.005	12.1679	12.1728
57.2	0.1828	0	12.1495	12.1495
57.2333	0.1798	0.005	12.1587	12.1636
57.2667	0.1802	0.005	12.1652	12.1702
57.3	0.1811	0	12.1639	12.1639

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
57.3333	0.1828	0.005	12.1613	12.1663
57.3667	0.1792	0	12.1626	12.1626
57.4	0.1811	0.005	12.1758	12.1807
57.4333	0.1815	0	12.1665	12.1665
57.4667	0.1808	0.005	12.1771	12.182
57.5	0.1805	0.005	12.1823	12.1873
57.5333	0.1811	0	12.1744	12.1744
57.5667	0.1805	0.005	12.1823	12.1873
57.6	0.1825	0.005	12.1797	12.1847
57.6333	0.1815	0.005	12.1758	12.1807
57.6667	0.1835	0	12.181	12.181
57.7	0.1831	0.005	12.1823	12.1873
57.7333	0.1831	0.005	12.185	12.1899
57.7667	0.1815	0	12.1876	12.1876
57.8	0.1831	0.005	12.1876	12.1926
57.8333	0.1811	0	12.1876	12.1876
57.8667	0.1805	0	12.2047	12.2047
57.9	0.1825	0	12.1994	12.1994
57.9333	0.1785	0.005	12.1994	12.2044
57.9667	0.1805	0	12.2099	12.2099
58	0.1795	0.005	12.2021	12.207
58.0333	0.1821	0.0181	12.1928	12.211
58.0667	0.1815	0	12.1994	12.1994
58.1	0.1815	0	12.1968	12.1968
58.1333	0.1802	0	12.206	12.206
58.1667	0.1825	0	12.2152	12.2152
58.2	0.1821	0.005	12.2218	12.2268
58.2333	0.1825	0.0181	12.2034	12.2215
58.2667	0.1838	0	12.2178	12.2178
58.3	0.1818	0	12.2152	12.2152
58.3333	0.1805	0	12.2007	12.2007
58.3667	0.1805	0.005	12.2165	12.2215
58.4	0.1811	0.005	12.2218	12.2268
58.4333	0.1815	0	12.2152	12.2152
58.4667	0.1792	0.005	12.2178	12.2228
58.5	0.1821	0.005	12.2152	12.2202
58.5333	0.1805	0	12.231	12.231
58.5667	0.1798	0.005	12.2205	12.2254
58.6	0.1811	0.005	12.2257	12.2307
58.6333	0.1841	0.005	12.2257	12.2307
58.6667	0.1825	0.005	12.2283	12.2333
58.7	0.1811	0.005	12.2349	12.2399
58.7333	0.1821	0	12.2376	12.2376

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
58.7667	0.1811	0.005	12.2362	12.2412
58.8	0.1798	0	12.2323	12.2323
58.8333	0.1795	0	12.231	12.231
58.8667	0.1775	0.005	12.2454	12.2504
58.9	0.1779	0	12.227	12.227
58.9333	0.1821	0.0181	12.2349	12.2531
58.9667	0.1828	0.005	12.2389	12.2439
59	0.1811	0.005	12.2402	12.2452
59.0333	0.1831	0	12.2428	12.2428
59.0667	0.1821	0	12.2468	12.2468
59.1	0.1785	0	12.2389	12.2389
59.1333	0.1802	0.005	12.2441	12.2491
59.1667	0.1785	0	12.2481	12.2481
59.2	0.1811	0	12.2481	12.2481
59.2333	0.1769	0.005	12.2428	12.2478
59.2667	0.1782	0.005	12.2533	12.2583
59.3	0.1798	0.005	12.2481	12.2531
59.3333	0.1798	0	12.2428	12.2428
59.3667	0.1805	0.0181	12.2494	12.2675
59.4	0.1782	0.005	12.2494	12.2544
59.4333	0.1795	0.005	12.2599	12.2649
59.4667	0.1798	0	12.2612	12.2612
59.5	0.1802	0.005	12.252	12.257
59.5333	0.1795	0.005	12.2481	12.2531
59.5667	0.1795	0	12.2533	12.2533
59.6	0.1788	0.005	12.2639	12.2688
59.6333	0.1798	0.005	12.2533	12.2583
59.6667	0.1818	0.005	12.2586	12.2636
59.7	0.1798	0.005	12.2717	12.2767
59.7333	0.1815	0	12.256	12.256
59.7667	0.1798	0	12.2533	12.2533
59.8	0.1811	0	12.2652	12.2652
59.8333	0.1815	0.005	12.2731	12.278
59.8667	0.1835	0.005	12.2796	12.2846
59.9	0.1782	0.005	12.2691	12.2741
59.9333	0.1792	0	12.2704	12.2704
59.9667	0.1805	0	12.2744	12.2744
60	0.1811	0.005	12.2691	12.2741
60.0333	0.1805	0	12.2731	12.2731
60.0667	0.1805	0	12.2717	12.2717
60.1	0.1811	0	12.2809	12.2809
60.1333	0.1811	0.0181	12.2836	12.3017
60.1667	0.1805	0	12.2836	12.2836

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
60.2	0.1818	0	12.2678	12.2678
60.2333	0.1825	0.005	12.2757	12.2807
60.2667	0.1815	0.005	12.2875	12.2925
60.3	0.1815	0	12.2823	12.2823
60.3333	0.1811	0	12.2783	12.2783
60.3667	0.1798	0.005	12.2915	12.2965
60.4	0.1838	0.005	12.2823	12.2872
60.4333	0.1831	0	12.2836	12.2836
60.4667	0.1779	0.005	12.2823	12.2872
60.5	0.1825	0	12.2809	12.2809
60.5333	0.1818	0.005	12.2836	12.2886
60.5667	0.1805	0.0181	12.2875	12.3057
60.6	0.1792	0	12.2928	12.2928
60.6333	0.1805	0	12.2915	12.2915
60.6667	0.1802	0	12.2915	12.2915
60.7	0.1808	0	12.298	12.298
60.7333	0.1815	0	12.2836	12.2836
60.7667	0.1811	0	12.2902	12.2902
60.8	0.1825	0	12.2954	12.2954
60.8333	0.1818	0	12.2915	12.2915
60.8667	0.1798	0.005	12.2928	12.2978
60.9	0.1828	0	12.3033	12.3033
60.9333	0.1798	0	12.2941	12.2941
60.9667	0.1785	0.005	12.298	12.303
61	0.1792	0.005	12.298	12.303
61.0333	0.1831	0	12.2915	12.2915
61.0667	0.1805	0.0181	12.298	12.3162
61.1	0.1798	0	12.2928	12.2928
61.1333	0.1772	0.005	12.2875	12.2925
61.1667	0.1795	0	12.2915	12.2915
61.2	0.1792	0.005	12.3033	12.3083
61.2333	0.1798	0.005	12.2994	12.3043
61.2667	0.1782	0.005	12.298	12.303
61.3	0.1779	0.005	12.3086	12.3135
61.3333	0.1782	0.005	12.2994	12.3043
61.3667	0.1802	0	12.3007	12.3007
61.4	0.1795	0.005	12.3007	12.3057
61.4333	0.1788	0	12.2902	12.2902
61.4667	0.1802	0.005	12.2915	12.2965
61.5	0.1821	0	12.298	12.298
61.5333	0.1838	0.005	12.2862	12.2912
61.5667	0.1798	0	12.3033	12.3033
61.6	0.1825	0	12.298	12.298

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
61.6333	0.1821	0.005	12.2875	12.2925
61.6667	0.1795	0	12.2928	12.2928
61.7	0.1788	0	12.302	12.302
61.7333	0.1802	0.005	12.3072	12.3122
61.7667	0.1798	0.005	12.298	12.303
61.8	0.1795	0	12.298	12.298
61.8333	0.1788	0	12.3059	12.3059
61.8667	0.1811	0	12.298	12.298
61.9	0.1795	0.005	12.298	12.303
61.9333	0.1838	0.005	12.2994	12.3043
61.9667	0.1792	0	12.2915	12.2915
62	0.1805	0.005	12.2928	12.2978
62.0333	0.1802	0.005	12.2954	12.3004
62.0667	0.1848	0	12.3033	12.3033
62.1	0.1788	0.005	12.2994	12.3043
62.1333	0.1795	0.005	12.3046	12.3096
62.1667	0.1805	0.005	12.3086	12.3135
62.2	0.1795	0.0313	12.3099	12.3412
62.2333	0.1798	0.0181	12.302	12.3201
62.2667	0.1779	0	12.3099	12.3099
62.3	0.1792	0	12.3059	12.3059
62.3333	0.1818	0.005	12.3138	12.3188
62.3667	0.1782	0	12.3086	12.3086
62.4	0.1792	0	12.3086	12.3086
62.4333	0.1785	0.005	12.323	12.328
62.4667	0.1821	0	12.3125	12.3125
62.5	0.1798	0	12.3007	12.3007
62.5333	0.1779	0.005	12.3086	12.3135
62.5667	0.1792	0.005	12.3007	12.3057
62.6	0.1811	0	12.3112	12.3112
62.6333	0.1788	0	12.3086	12.3086
62.6667	0.1788	0	12.3204	12.3204
62.7	0.1765	0.005	12.2994	12.3043
62.7333	0.1772	0.005	12.3099	12.3149
62.7667	0.1808	0.005	12.2967	12.3017
62.8	0.1775	0.005	12.302	12.307
62.8333	0.1811	0.005	12.3033	12.3083
62.8667	0.1779	0	12.3099	12.3099
62.9	0.1779	0.005	12.3125	12.3175
62.9333	0.1798	0.005	12.3033	12.3083
62.9667	0.1788	0.0181	12.3099	12.328
63	0.1808	0	12.3046	12.3046
63.0333	0.1772	0.005	12.3125	12.3175

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
63.0667	0.1818	0.005	12.3125	12.3175
63.1	0.1792	0.005	12.3125	12.3175
63.1333	0.1802	0	12.3099	12.3099
63.1667	0.1805	0	12.3099	12.3099
63.2	0.1765	0	12.2915	12.2915
63.2333	0.1772	0	12.3086	12.3086
63.2667	0.1775	0	12.3072	12.3072
63.3	0.1772	0.005	12.2994	12.3043
63.3333	0.1798	0.005	12.3007	12.3057
63.3667	0.1772	0.005	12.3033	12.3083
63.4	0.1782	0	12.2941	12.2941
63.4333	0.1798	0.005	12.3086	12.3135
63.4667	0.1788	0	12.2902	12.2902
63.5	0.1802	0	12.3046	12.3046
63.5333	0.1792	0.005	12.3033	12.3083
63.5667	0.1808	0.005	12.298	12.303
63.6	0.1808	0.0181	12.2967	12.3149
63.6333	0.1788	0	12.3007	12.3007
63.6667	0.1769	0.005	12.3086	12.3135
63.7	0.1759	0	12.3007	12.3007
63.7333	0.1769	0.005	12.3112	12.3162
63.7667	0.1769	0.005	12.3007	12.3057
63.8	0.1782	0.005	12.3033	12.3083
63.8333	0.1779	0	12.2928	12.2928
63.8667	0.1772	0.005	12.2928	12.2978
63.9	0.1769	0	12.2967	12.2967
63.9333	0.1772	0	12.2954	12.2954
63.9667	0.1782	0.005	12.3059	12.3109
64	0.1785	0	12.3033	12.3033
64.0333	0.1765	0.005	12.2967	12.3017
64.0667	0.1805	0	12.3033	12.3033
64.1	0.1792	0.0181	12.2994	12.3175
64.1333	0.1769	0	12.298	12.298
64.1667	0.1772	0	12.2994	12.2994
64.2	0.1805	0	12.3046	12.3046
64.2333	0.1802	0	12.3046	12.3046
64.2667	0.1785	0	12.2928	12.2928
64.3	0.1792	0	12.3007	12.3007
64.3333	0.1775	0.005	12.3046	12.3096
64.3667	0.1779	0.005	12.298	12.303
64.4	0.1792	0	12.2888	12.2888
64.4333	0.1769	0.005	12.3033	12.3083
64.4667	0.1772	0.005	12.2915	12.2965

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
64.5	0.1811	0	12.2941	12.2941
64.5333	0.1782	0.005	12.3059	12.3109
64.5667	0.1795	0.005	12.2967	12.3017
64.6	0.1765	0	12.3007	12.3007
64.6333	0.1785	0	12.2941	12.2941
64.6667	0.1792	0	12.2875	12.2875
64.7	0.1775	0.0181	12.2954	12.3135
64.7333	0.1772	0.005	12.3033	12.3083
64.7667	0.1772	0.005	12.2915	12.2965
64.8	0.1775	0	12.298	12.298
64.8333	0.1759	0.005	12.2849	12.2899
64.8667	0.1802	0.005	12.2902	12.2951
64.9	0.1795	0.005	12.2994	12.3043
64.9333	0.1775	0	12.2954	12.2954
64.9667	0.1795	0	12.2875	12.2875
65	0.1756	0	12.2994	12.2994
65.0333	0.1792	0	12.2915	12.2915
65.0667	0.1788	0	12.2849	12.2849
65.1	0.1788	0	12.2967	12.2967
65.1333	0.1795	0.0181	12.2915	12.3096
65.1667	0.1792	0.005	12.2941	12.2991
65.2	0.1805	0.005	12.2875	12.2925
65.2333	0.1765	0	12.2823	12.2823
65.2667	0.1795	0.005	12.2994	12.3043
65.3	0.1769	0	12.298	12.298
65.3333	0.1782	0.0181	12.2967	12.3149
65.3667	0.1795	0	12.2941	12.2941
65.4	0.1752	0.0181	12.2888	12.307
65.4333	0.1775	0	12.2915	12.2915
65.4667	0.1752	0.005	12.2888	12.2938
65.5	0.1775	0.0181	12.2849	12.303
65.5333	0.1795	0.005	12.2967	12.3017
65.5667	0.1765	0	12.298	12.298
65.6	0.1759	0.005	12.2809	12.2859
65.6333	0.1802	0.005	12.2902	12.2951
65.6667	0.1779	0	12.2941	12.2941
65.7	0.1749	0	12.2928	12.2928
65.7333	0.1811	0.005	12.2915	12.2965
65.7667	0.1775	0.0181	12.2691	12.2872
65.8	0.1815	0	12.2902	12.2902
65.8333	0.1762	0.005	12.2862	12.2912
65.8667	0.1798	0	12.2915	12.2915
65.9	0.1785	0	12.2875	12.2875



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
65.9333	0.1805	0.005	12.2954	12.3004
65.9667	0.1798	0.005	12.2862	12.2912
66	0.1795	0	12.2875	12.2875
66.0333	0.1779	0.005	12.2783	12.2833
66.0667	0.1792	0.005	12.2902	12.2951
66.1	0.1818	0.005	12.2915	12.2965
66.1333	0.1775	0	12.2862	12.2862
66.1667	0.1782	0.005	12.2836	12.2886
66.2	0.1742	0	12.2915	12.2915
66.2333	0.1795	0.005	12.2809	12.2859
66.2667	0.1792	0.005	12.2941	12.2991
66.3	0.1765	0	12.2888	12.2888
66.3333	0.1769	0.005	12.2902	12.2951
66.3667	0.1815	0	12.2915	12.2915
66.4	0.1798	0.005	12.2928	12.2978
66.4333	0.1798	0.005	12.2823	12.2872
66.4667	0.1792	0.005	12.2836	12.2886
66.5	0.1769	0	12.2888	12.2888
66.5333	0.1788	0	12.2809	12.2809
66.5667	0.1769	0.005	12.2875	12.2925
66.6	0.1788	0	12.2809	12.2809
66.6333	0.1802	0.005	12.2862	12.2912
66.6667	0.1798	0.005	12.2928	12.2978
66.7	0.1772	0	12.277	12.277
66.7333	0.1779	0.005	12.2954	12.3004
66.7667	0.1779	0	12.2875	12.2875
66.8	0.1779	0	12.2823	12.2823
66.8333	0.1802	0.005	12.2967	12.3017
66.8667	0.1788	0.005	12.2954	12.3004
66.9	0.1802	0	12.302	12.302
66.9333	0.1818	0	12.2902	12.2902
66.9667	0.1795	0.005	12.2875	12.2925
67	0.1769	0.005	12.2994	12.3043
67.0333	0.1795	0.0181	12.3033	12.3214
67.0667	0.1811	0.005	12.2928	12.2978
67.1	0.1802	0	12.2928	12.2928
67.1333	0.1805	0.0181	12.2941	12.3122
67.1667	0.1772	0	12.3007	12.3007
67.2	0.1782	0	12.2941	12.2941
67.2333	0.1821	0.005	12.2928	12.2978
67.2667	0.1802	0.005	12.2994	12.3043
67.3	0.1795	0.005	12.3138	12.3188
67.3333	0.1779	0.005	12.298	12.303

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
67.3667	0.1775	0	12.298	12.298
67.4	0.1782	0	12.3086	12.3086
67.4333	0.1811	0	12.3046	12.3046
67.4667	0.1795	0.005	12.2967	12.3017
67.5	0.1785	0.005	12.298	12.303
67.5333	0.1815	0.005	12.3046	12.3096
67.5667	0.1802	0.005	12.3033	12.3083
67.6	0.1828	0.005	12.3046	12.3096
67.6333	0.1772	0.005	12.3112	12.3162
67.6667	0.1805	0.005	12.3099	12.3149
67.7	0.1798	0	12.3046	12.3046
67.7333	0.1785	0.005	12.3086	12.3135
67.7667	0.1815	0	12.302	12.302
67.8	0.1782	0.0181	12.3059	12.3241
67.8333	0.1811	0.005	12.3243	12.3293
67.8667	0.1805	0.005	12.3046	12.3096
67.9	0.1779	0.005	12.3086	12.3135
67.9333	0.1782	0.0181	12.3138	12.332
67.9667	0.1782	0	12.3191	12.3191
68	0.1798	0.0181	12.3191	12.3372
68.0333	0.1772	0	12.3099	12.3099
68.0667	0.1805	0.005	12.3112	12.3162
68.1	0.1802	0.0181	12.3138	12.332
68.1333	0.1759	0	12.3151	12.3151
68.1667	0.1782	0	12.3178	12.3178
68.2	0.1775	0.005	12.3086	12.3135
68.2333	0.1802	0.005	12.3151	12.3201
68.2667	0.1795	0.005	12.3086	12.3135
68.3	0.1798	0	12.3191	12.3191
68.3333	0.1779	0.005	12.3125	12.3175
68.3667	0.1805	0	12.3191	12.3191
68.4	0.1775	0	12.3138	12.3138
68.4333	0.1802	0.005	12.3165	12.3214
68.4667	0.1782	0.005	12.3151	12.3201
68.5	0.1811	0.0181	12.3138	12.332
68.5333	0.1805	0.005	12.327	12.332
68.5667	0.1818	0	12.3125	12.3125
68.6	0.1811	0.005	12.3138	12.3188
68.6333	0.1795	0.005	12.3191	12.3241
68.6667	0.1775	0	12.3151	12.3151
68.7	0.1782	0.0181	12.3191	12.3372
68.7333	0.1785	0	12.3309	12.3309
68.7667	0.1782	0	12.3217	12.3217

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
68.8	0.1788	0	12.3191	12.3191
68.8333	0.1792	0	12.323	12.323
68.8667	0.1811	0	12.3362	12.3362
68.9	0.1805	0.005	12.3191	12.3241
68.9333	0.1775	0	12.3086	12.3086
68.9667	0.1795	0.005	12.3243	12.3293
69	0.1785	0.005	12.3243	12.3293
69.0333	0.1775	0.005	12.327	12.332
69.0667	0.1805	0	12.3204	12.3204
69.1	0.1795	0.005	12.3217	12.3267
69.1333	0.1779	0	12.3283	12.3283
69.1667	0.1788	0.005	12.3335	12.3385
69.2	0.1811	0.005	12.3257	12.3306
69.2333	0.1769	0.0181	12.3309	12.3491
69.2667	0.1788	0.0181	12.3296	12.3477
69.3	0.1802	0.005	12.327	12.332
69.3333	0.1788	0.005	12.3283	12.3333
69.3667	0.1815	0.005	12.3322	12.3372
69.4	0.1792	0.0181	12.3296	12.3477
69.4333	0.1795	0.005	12.3257	12.3306
69.4667	0.1785	0.005	12.3309	12.3359
69.5	0.1782	0.005	12.327	12.332
69.5333	0.1785	0	12.3243	12.3243
69.5667	0.1798	0.005	12.3375	12.3425
69.6	0.1772	0.005	12.3322	12.3372
69.6333	0.1798	0	12.3349	12.3349
69.6667	0.1798	0	12.3204	12.3204
69.7	0.1795	0.005	12.3309	12.3359
69.7333	0.1772	0	12.3335	12.3335
69.7667	0.1808	0	12.3375	12.3375
69.8	0.1808	0	12.3322	12.3322
69.8333	0.1772	0.005	12.3401	12.3451
69.8667	0.1795	0.005	12.3401	12.3451
69.9	0.1769	0	12.3441	12.3441
69.9333	0.1805	0	12.3375	12.3375
69.9667	0.1788	0.0181	12.3414	12.3596
70	0.1775	0.0181	12.3349	12.353
70.0333	0.1795	0	12.3349	12.3349
70.0667	0.1802	0	12.3322	12.3322
70.1	0.1802	0.005	12.348	12.353
70.1333	0.1805	0.005	12.3375	12.3425
70.1667	0.1772	0	12.3428	12.3428
70.2	0.1785	0	12.3388	12.3388

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
70.2333	0.1788	0	12.3375	12.3375
70.2667	0.1805	0.005	12.3375	12.3425
70.3	0.1779	0.005	12.3454	12.3504
70.3333	0.1818	0.005	12.3441	12.3491
70.3667	0.1795	0.005	12.3546	12.3596
70.4	0.1772	0.005	12.3441	12.3491
70.4333	0.1798	0	12.3414	12.3414
70.4667	0.1792	0.005	12.3388	12.3438
70.5	0.1795	0	12.3454	12.3454
70.5333	0.1811	0	12.3388	12.3388
70.5667	0.1782	0	12.3467	12.3467
70.6	0.1805	0	12.3375	12.3375
70.6333	0.1805	0.005	12.352	12.3569
70.6667	0.1795	0.005	12.3467	12.3517
70.7	0.1798	0.0181	12.352	12.3701
70.7333	0.1772	0.005	12.3428	12.3477
70.7667	0.1785	0	12.3441	12.3441
70.8	0.1765	0.005	12.3506	12.3556
70.8333	0.1795	0.005	12.3375	12.3425
70.8667	0.1752	0.005	12.352	12.3569
70.9	0.1782	0.005	12.3572	12.3622
70.9333	0.1756	0	12.3375	12.3375
70.9667	0.1828	0	12.3559	12.3559
71	0.1782	0.005	12.3612	12.3661
71.0333	0.1775	0.0181	12.3506	12.3688
71.0667	0.1759	0.005	12.3506	12.3556
71.1	0.1795	0.005	12.3533	12.3583
71.1333	0.1775	0	12.348	12.348
71.1667	0.1746	0.005	12.3533	12.3583
71.2	0.1795	0.005	12.348	12.353
71.2333	0.1762	0	12.352	12.352
71.2667	0.1795	0.005	12.3401	12.3451
71.3	0.1765	0	12.3414	12.3414
71.3333	0.1759	0	12.3441	12.3441
71.3667	0.1792	0	12.3506	12.3506
71.4	0.1811	0	12.3506	12.3506
71.4333	0.1785	0	12.3493	12.3493
71.4667	0.1795	0.005	12.3454	12.3504
71.5	0.1798	0	12.3467	12.3467
71.5333	0.1795	0.005	12.352	12.3569
71.5667	0.1792	0	12.3572	12.3572
71.6	0.1769	0.005	12.3493	12.3543
71.6333	0.1779	0	12.3493	12.3493

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
71.6667	0.1811	0.005	12.3506	12.3556
71.7	0.1798	0.005	12.3454	12.3504
71.7333	0.1802	0.005	12.3454	12.3504
71.7667	0.1795	0.0181	12.3546	12.3727
71.8	0.1756	0.005	12.3493	12.3543
71.8333	0.1798	0	12.348	12.348
71.8667	0.1756	0.005	12.3467	12.3517
71.9	0.1792	0.005	12.3506	12.3556
71.9333	0.1756	0	12.348	12.348
71.9667	0.1765	0.005	12.3533	12.3583
72	0.1805	0	12.3585	12.3585
72.0333	0.1798	0.0181	12.3401	12.3583
72.0667	0.1759	0	12.352	12.352
72.1	0.1756	0.005	12.3559	12.3609
72.1333	0.1772	0.005	12.3559	12.3609
72.1667	0.1765	0.005	12.3559	12.3609
72.2	0.1772	0.005	12.348	12.353
72.2333	0.1788	0	12.3454	12.3454
72.2667	0.1808	0.005	12.3375	12.3425
72.3	0.1802	0.005	12.3572	12.3622
72.3333	0.1782	0.005	12.3467	12.3517
72.3667	0.1759	0.005	12.3585	12.3635
72.4	0.1775	0	12.352	12.352
72.4333	0.1808	0.005	12.3454	12.3504
72.4667	0.1762	0.005	12.3559	12.3609
72.5	0.1788	0.005	12.3559	12.3609
72.5333	0.1802	0.005	12.3533	12.3583
72.5667	0.1775	0.005	12.3546	12.3596
72.6	0.1785	0	12.3506	12.3506
72.6333	0.1752	0.005	12.3546	12.3596
72.6667	0.1805	0.0181	12.3585	12.3767
72.7	0.1831	0	12.3572	12.3572
72.7333	0.1861	0	12.3598	12.3598
72.7667	0.1933	0.005	12.3888	12.3938
72.8	0.1976	0	12.398	12.398
72.8333	0.2025	0.005	12.4177	12.4227
72.8667	0.2065	0.0181	12.4387	12.4569
72.9	0.2108	0.005	12.4677	12.4727
72.9333	0.218	0.005	12.5045	12.5095
72.9667	0.217	0	12.5295	12.5295
73	0.2216	0	12.5558	12.5558
73.0333	0.2262	0.005	12.5965	12.6015
73.0667	0.2259	0.005	12.632	12.637

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
73.1	0.2315	0	12.6544	12.6544
73.1333	0.2312	0.005	12.6965	12.7015
73.1667	0.2351	0.005	12.732	12.737
73.2	0.2404	0	12.7635	12.7635
73.2333	0.2394	0.005	12.8056	12.8106
73.2667	0.2397	0	12.8319	12.8319
73.3	0.245	0.005	12.8766	12.8816
73.3333	0.2437	0	12.9135	12.9135
73.3667	0.2493	0	12.9568	12.9568
73.4	0.2506	0.005	12.9871	12.9921
73.4333	0.2483	0.0181	13.0226	13.0407
73.4667	0.2516	0	13.0555	13.0555
73.5	0.2496	0.0181	13.1068	13.1249
73.5333	0.2503	0.005	13.1344	13.1393
73.5667	0.2549	0	13.1659	13.1659
73.6	0.2536	0.005	13.1988	13.2038
73.6333	0.2555	0	13.2461	13.2461
73.6667	0.2595	0	13.283	13.283
73.7	0.2608	0.005	13.325	13.33
73.7333	0.2595	0.005	13.35	13.355
73.7667	0.2641	0.005	13.3842	13.3892
73.8	0.2651	0	13.4342	13.4342
73.8333	0.2677	0.0181	13.4723	13.4904
73.8667	0.2707	0.005	13.5052	13.5102
73.9	0.2743	0	13.5565	13.5565
73.9333	0.2763	0.005	13.6025	13.6075
73.9667	0.2789	0	13.6354	13.6354
74	0.2802	0.0181	13.6906	13.7087
74.0333	0.2812	0	13.7353	13.7353
74.0667	0.2881	0.005	13.7721	13.7771
74.1	0.2907	0	13.8195	13.8195
74.1333	0.2891	0	13.8629	13.8629
74.1667	0.2901	0	13.901	13.901
74.2	0.2901	0.005	13.951	13.9559
74.2333	0.2927	0.005	13.9983	14.0033
74.2667	0.2973	0.005	14.0417	14.0467
74.3	0.2973	0.005	14.1022	14.1072
74.3333	0.2963	0.005	14.1232	14.1282
74.3667	0.297	0.0181	14.1732	14.1913
74.4	0.3023	0	14.2258	14.2258
74.4333	0.301	0.005	14.2639	14.2689
74.4667	0.3	0.0181	14.3073	14.3255
74.5	0.3059	0.005	14.3455	14.3504

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
74.5333	0.3046	0	14.3941	14.3941
74.5667	0.3029	0.005	14.4257	14.4307
74.6	0.3033	0.0181	14.477	14.4951
74.6333	0.3049	0.005	14.5256	14.5306
74.6667	0.3049	0	14.5637	14.5637
74.7	0.3039	0	14.6019	14.6019
74.7333	0.3069	0	14.6466	14.6466
74.7667	0.3095	0.005	14.6821	14.6871
74.8	0.3092	0.0181	14.7281	14.7462
74.8333	0.3108	0	14.7676	14.7676
74.8667	0.3108	0.005	14.8096	14.8146
74.9	0.3092	0.005	14.8438	14.8488
74.9333	0.3125	0.005	14.8622	14.8672
74.9667	0.3118	0	14.9359	14.9359
75	0.3108	0.005	14.9688	14.9737
75.0333	0.3131	0.0181	15.0016	15.0198
75.0667	0.3138	0.0181	15.0306	15.0487
75.1	0.3121	0	15.0661	15.0661
75.1333	0.3095	0	15.1134	15.1134
75.1667	0.3131	0	15.141	15.141
75.2	0.3151	0	15.1699	15.1699
75.2333	0.3131	0.005	15.2068	15.2117
75.2667	0.3144	0.005	15.2396	15.2446
75.3	0.3128	0.005	15.283	15.288
75.3333	0.3131	0.005	15.312	15.3169
75.3667	0.3089	0	15.3277	15.3277
75.4	0.3141	0	15.3751	15.3751
75.4333	0.3148	0.005	15.4027	15.4077
75.4667	0.3164	0.0181	15.429	15.4471
75.5	0.3141	0	15.4514	15.4514
75.5333	0.3148	0.0181	15.4908	15.5089
75.5667	0.3148	0.005	15.5303	15.5352
75.6	0.3154	0.005	15.571	15.576
75.6333	0.3154	0.005	15.6013	15.6062
75.6667	0.3181	0.005	15.6328	15.6378
75.7	0.3181	0	15.6473	15.6473
75.7333	0.3181	0	15.6894	15.6894
75.7667	0.3204	0.005	15.7262	15.7312
75.8	0.322	0	15.7617	15.7617
75.8333	0.3194	0.005	15.7788	15.7838
75.8667	0.323	0	15.8143	15.8143
75.9	0.321	0	15.8458	15.8458
75.9333	0.3207	0.0181	15.8866	15.9047

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
75.9667	0.32	0.005	15.9182	15.9232
76	0.3237	0.005	15.9432	15.9481
76.0333	0.3207	0	15.9773	15.9773
76.0667	0.3227	0.0181	15.9958	16.0139
76.1	0.3207	0.0181	16.0221	16.0402
76.1333	0.3233	0.0181	16.0536	16.0717
76.1667	0.3237	0.005	16.0825	16.0875
76.2	0.3253	0.005	16.1036	16.1086
76.2333	0.3256	0	16.1286	16.1286
76.2667	0.3233	0.005	16.1759	16.1809
76.3	0.3253	0	16.1956	16.1956
76.3333	0.3243	0.005	16.2298	16.2348
76.3667	0.3263	0.005	16.2548	16.2598
76.4	0.3253	0.005	16.2719	16.2769
76.4333	0.3279	0.005	16.3127	16.3176
76.4667	0.3309	0	16.3324	16.3324
76.5	0.3309	0	16.3679	16.3679
76.5333	0.3279	0.005	16.4113	16.4163
76.5667	0.3299	0	16.4218	16.4218
76.6	0.3316	0.005	16.4547	16.4597
76.6333	0.3312	0.005	16.4941	16.4991
76.6667	0.3316	0.005	16.5191	16.5241
76.7	0.3319	0	16.5349	16.5349
76.7333	0.3342	0.005	16.5691	16.5741
76.7667	0.3329	0	16.5901	16.5901
76.8	0.3322	0.005	16.6296	16.6346
76.8333	0.3319	0.0181	16.6401	16.6582
76.8667	0.3332	0	16.6716	16.6716
76.9	0.3339	0	16.7019	16.7019
76.9333	0.3349	0.005	16.7256	16.7305
76.9667	0.3325	0	16.7637	16.7637
77	0.3329	0.0181	16.7966	16.8147
77.0333	0.3319	0.005	16.815	16.82
77.0667	0.3368	0.005	16.8426	16.8476
77.1	0.3355	0.005	16.8571	16.862
77.1333	0.3358	0	16.8926	16.8926
77.1667	0.3375	0.0181	16.9175	16.9357
77.2	0.3362	0.005	16.9517	16.9567
77.2333	0.3362	0.0181	16.978	16.9962
77.2667	0.3381	0	16.9925	16.9925
77.3	0.3349	0.005	17.0162	17.0212
77.3333	0.3352	0	17.0477	17.0477
77.3667	0.3395	0.0181	17.0793	17.0974



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
77.4	0.3385	0	17.1016	17.1016
77.4333	0.3355	0.005	17.1214	17.1264
77.4667	0.3378	0	17.149	17.149
77.5	0.3372	0.005	17.174	17.179
77.5333	0.3368	0.0181	17.1911	17.2092
77.5667	0.3368	0.005	17.195	17.2
77.6	0.3395	0	17.2397	17.2397
77.6333	0.3434	0.005	17.2779	17.2828
77.6667	0.3388	0	17.2976	17.2976
77.7	0.3444	0	17.3318	17.3318
77.7333	0.3424	0.005	17.3489	17.3538
77.7667	0.3428	0	17.3752	17.3752
77.8	0.3467	0.005	17.3923	17.3972
77.8333	0.3444	0	17.4317	17.4317
77.8667	0.3467	0.005	17.4475	17.4525
77.9	0.348	0	17.479	17.479
77.9333	0.346	0	17.5014	17.5014
77.9667	0.349	0	17.5369	17.5369
78	0.3477	0.005	17.5474	17.5524
78.0333	0.349	0	17.5698	17.5698
78.0667	0.3464	0.005	17.5961	17.6011
78.1	0.3497	0	17.6276	17.6276
78.1333	0.3497	0	17.6658	17.6658
78.1667	0.3483	0	17.6816	17.6816
78.2	0.3493	0.005	17.6908	17.6957
78.2333	0.3526	0.005	17.7236	17.7286
78.2667	0.349	0	17.7512	17.7512
78.3	0.3483	0	17.7657	17.7657
78.3333	0.3503	0	17.8052	17.8052
78.3667	0.35	0.005	17.8236	17.8286
78.4	0.353	0	17.8512	17.8512
78.4333	0.352	0	17.8749	17.8749
78.4667	0.3526	0	17.8801	17.8801
78.5	0.3543	0	17.909	17.909
78.5333	0.3523	0.005	17.9419	17.9469
78.5667	0.3546	0.005	17.9432	17.9482
78.6	0.352	0.0181	17.963	17.9811
78.6333	0.3523	0.005	18.0011	18.0061
78.6667	0.3516	0.005	18.0248	18.0297
78.7	0.3539	0.005	18.0458	18.0508
78.7333	0.3549	0.0181	18.0655	18.0837
78.7667	0.3516	0	18.0918	18.0918
78.8	0.352	0.005	18.1076	18.1126

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
78.8333	0.3539	0	18.1273	18.1273
78.8667	0.3516	0.005	18.1352	18.1402
78.9	0.3543	0	18.176	18.176
78.9333	0.3543	0	18.1957	18.1957
78.9667	0.3546	0	18.2154	18.2154
79	0.3526	0	18.2523	18.2523
79.0333	0.3556	0	18.247	18.247
79.0667	0.3562	0.005	18.2838	18.2888
79.1	0.3536	0.005	18.2785	18.2835
79.1333	0.3562	0.005	18.3075	18.3125
79.1667	0.3566	0.005	18.3246	18.3296
79.2	0.3562	0.0181	18.3351	18.3532
79.2333	0.3553	0.0181	18.3653	18.3835
79.2667	0.3586	0.005	18.3903	18.3953
79.3	0.3576	0.005	18.4087	18.4137
79.3333	0.3569	0.005	18.4258	18.4308
79.3667	0.3586	0	18.4429	18.4429
79.4	0.3562	0	18.4692	18.4692
79.4333	0.3569	0.005	18.4811	18.486
79.4667	0.3553	0.005	18.4968	18.5018
79.5	0.3562	0.005	18.5415	18.5465
79.5333	0.3579	0.005	18.5573	18.5623
79.5667	0.3599	0.0181	18.556	18.5741
79.6	0.3618	0.0181	18.602	18.6202
79.6333	0.3615	0.005	18.6152	18.6202
79.6667	0.3589	0	18.6218	18.6218
79.7	0.3615	0.0181	18.6441	18.6622
79.7333	0.3609	0.005	18.6586	18.6636
79.7667	0.3618	0	18.6875	18.6875
79.8	0.3635	0.005	18.702	18.707
79.8333	0.3632	0.005	18.7164	18.7214
79.8667	0.3602	0.0181	18.7454	18.7635
79.9	0.3589	0.005	18.7769	18.7819
79.9333	0.3651	0.005	18.7782	18.7832
79.9667	0.3615	0.005	18.7927	18.7977
80	0.3628	0	18.8203	18.8203
80.0333	0.3638	0	18.8361	18.8361
80.0667	0.3638	0	18.84	18.84
80.1	0.3638	0.005	18.8742	18.8792
80.1333	0.3618	0	18.8979	18.8979
80.1667	0.3651	0.0181	18.9097	18.9279
80.2	0.3645	0	18.9387	18.9387
80.2333	0.3641	0.005	18.9584	18.9634

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
80.2667	0.3615	0.005	18.961	18.966
80.3	0.3605	0.005	18.9939	18.9989
80.3333	0.3612	0.005	18.9952	19.0002
80.3667	0.3586	0	19.0123	19.0123
80.4	0.3566	0	19.036	19.036
80.4333	0.3569	0	19.036	19.036
80.4667	0.3556	0.0181	19.0623	19.0804
80.5	0.3553	0.005	19.0636	19.0686
80.5333	0.3562	0	19.0728	19.0728
80.5667	0.3533	0	19.0899	19.0899
80.6	0.351	0	19.1017	19.1017
80.6333	0.351	0.005	19.1017	19.1067
80.6667	0.3539	0.005	19.1333	19.1383
80.7	0.3487	0	19.1385	19.1385
80.7333	0.3493	0.005	19.1543	19.1593
80.7667	0.35	0.005	19.1648	19.1698
80.8	0.3477	0	19.1556	19.1556
80.8333	0.349	0	19.1714	19.1714
80.8667	0.347	0.005	19.1767	19.1817
80.9	0.3487	0.005	19.1885	19.1935
80.9333	0.3507	0	19.1951	19.1951
80.9667	0.3483	0.005	19.2135	19.2185
81	0.3483	0	19.2372	19.2372
81.0333	0.348	0.005	19.2385	19.2435
81.0667	0.349	0.005	19.2529	19.2579
81.1	0.3483	0	19.2556	19.2556
81.1333	0.3513	0	19.2543	19.2543
81.1667	0.3497	0.005	19.2832	19.2882
81.2	0.3503	0	19.2937	19.2937
81.2333	0.3507	0.005	19.2898	19.2947
81.2667	0.3546	0.005	19.3213	19.3263
81.3	0.3526	0	19.3266	19.3266
81.3333	0.3562	0	19.345	19.345
81.3667	0.3543	0.005	19.3555	19.3605
81.4	0.3546	0.005	19.3542	19.3592
81.4333	0.3562	0	19.3818	19.3818
81.4667	0.3579	0	19.395	19.395
81.5	0.3566	0.005	19.4081	19.4131
81.5333	0.3602	0.0181	19.4199	19.4381
81.5667	0.3579	0	19.4173	19.4173
81.6	0.3592	0	19.4489	19.4489
81.6333	0.3595	0.005	19.4555	19.4604
81.6667	0.3602	0.005	19.4778	19.4828

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
81.7	0.3618	0.005	19.4883	19.4933
81.7333	0.3612	0.0181	19.4962	19.5144
81.7667	0.3655	0.005	19.5212	19.5262
81.8	0.3648	0	19.5291	19.5291
81.8333	0.3622	0.005	19.5514	19.5564
81.8667	0.3671	0	19.5528	19.5528
81.9	0.3645	0.005	19.5922	19.5972
81.9333	0.3635	0.005	19.6014	19.6064
81.9667	0.3618	0.0181	19.5975	19.6156
82	0.3661	0	19.6093	19.6093
82.0333	0.3658	0.0181	19.6422	19.6603
82.0667	0.3658	0.005	19.6474	19.6524
82.1	0.3651	0.005	19.6422	19.6472
82.1333	0.3645	0.005	19.6632	19.6682
82.1667	0.3655	0.005	19.6882	19.6932
82.2	0.3671	0.005	19.6751	19.68
82.2333	0.3638	0.005	19.6987	19.7037
82.2667	0.3635	0	19.7145	19.7145
82.3	0.3622	0	19.7421	19.7421
82.3333	0.3655	0.005	19.7421	19.7471
82.3667	0.3622	0.005	19.7487	19.7537
82.4	0.3628	0	19.7579	19.7579
82.4333	0.3605	0	19.7684	19.7684
82.4667	0.3592	0.005	19.7776	19.7826
82.5	0.3615	0	19.7855	19.7855
82.5333	0.3579	0	19.8144	19.8144
82.5667	0.3589	0.005	19.8105	19.8155
82.6	0.3579	0	19.8184	19.8184
82.6333	0.3615	0	19.8473	19.8473
82.6667	0.3579	0.0181	19.8434	19.8615
82.7	0.3599	0.0181	19.8407	19.8589
82.7333	0.3615	0.005	19.8539	19.8589
82.7667	0.3582	0.005	19.8749	19.8799
82.8	0.3572	0.005	19.8841	19.8891
82.8333	0.3586	0	19.8907	19.8907
82.8667	0.3576	0	19.8815	19.8815
82.9	0.3582	0.005	19.9012	19.9062
82.9333	0.3592	17.218	18.5902	35.8082
82.9667	0.3846	50.3947	0.0004	50.3952
83	0.4027	48.751	0.0004	48.7514
83.0333	0.4175	47.4886	0.0017	47.4904
83.0667	0.4329	46.4893	0.0004	46.4897
83.1	0.4468	45.7529	0.0004	45.7533

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
83.1333	0.4527	45.1217	0.0004	45.1221
83.1667	0.4629	44.5694	0.0004	44.5698
83.2	0.4668	44.2144	0	44.2144
83.2333	0.4744	43.8593	0.0017	43.8611
83.2667	0.4691	43.4385	0.0017	43.4403
83.3	0.4658	43.0046	0.0004	43.005
83.3333	0.4612	42.6232	0.0004	42.6237
83.3667	0.4586	42.1762	0.0017	42.1779
83.4	0.4514	41.7817	0.0004	41.7821
83.4333	0.4504	41.5318	0	41.5318
83.4667	0.4438	41.1373	0.0004	41.1377
83.5	0.4385	40.7165	0	40.7165
83.5333	0.4352	40.4141	0.0004	40.4145
83.5667	0.4336	40.0459	0.0004	40.0463
83.6	0.4264	39.612	0.0004	39.6124
83.6333	0.4234	39.2701	0.0017	39.2718
83.6667	0.4188	38.8756	0.0004	38.876
83.7	0.4129	38.5205	0.0004	38.5209
83.7333	0.4099	38.2575	0.003	38.2606
83.7667	0.4073	37.9288	0.0004	37.9292
83.8	0.4053	37.5475	0.0004	37.5479
83.8333	0.4	37.0741	0.0004	37.0745
83.8667	0.3974	36.8505	0.0004	36.8509
83.9	0.3938	36.4955	0.0004	36.4959
83.9333	0.3908	36.193	0	36.193
83.9667	0.3836	35.8117	0.0004	35.8121
84	0.3826	35.4961	0.0017	35.4978
84.0333	0.3776	35.2068	0.0004	35.2072
84.0667	0.3757	34.9044	0.0004	34.9048
84.1	0.3717	34.5099	0	34.5099
84.1333	0.3655	34.26	0.0004	34.2604
84.1667	0.3651	33.9181	0.0004	33.9185
84.2	0.3576	33.6157	0.0004	33.6161
84.2333	0.3562	33.3658	0.0004	33.3663
84.2667	0.3543	32.9845	0	32.9845
84.3	0.346	32.7347	0	32.7347
84.3333	0.348	32.4191	0	32.4191
84.3667	0.346	32.1561	0.0004	32.1565
84.4	0.3444	31.7616	0.0017	31.7633
84.4333	0.3431	31.5249	0	31.5249
84.4667	0.3437	31.2882	0.0004	31.2886
84.5	0.3418	30.9726	0	30.9726
84.5333	0.3444	30.7622	0.0004	30.7626

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
84.5667	0.3467	30.4598	0.0004	30.4602
84.6	0.3497	30.2888	0.0017	30.2905
84.6333	0.3507	30.0258	0	30.0258
84.6667	0.3526	29.8154	0	29.8154
84.7	0.353	29.5656	0.0004	29.566
84.7333	0.3599	29.3683	0.0004	29.3687
84.7667	0.3599	29.1316	0	29.1316
84.8	0.3655	28.9475	0.0017	28.9493
84.8333	0.3661	28.7503	0.0004	28.7507
84.8667	0.3671	28.6056	0	28.6056
84.9	0.3704	28.4478	0.0017	28.4496
84.9333	0.3681	28.2769	0.0017	28.2786
84.9667	0.3727	28.106	0.0004	28.1064
85	0.3737	27.9219	0.0017	27.9236
85.0333	0.3773	27.7904	0.0004	27.7908
85.0667	0.3763	27.6457	0.0004	27.6461
85.1	0.3757	27.4485	0.0017	27.4502
85.1333	0.3796	27.3564	0.0004	27.3568
85.1667	0.3757	27.1592	0	27.1592
85.2	0.377	27.1329	0	27.1329
85.2333	0.377	26.9751	0.0017	26.9768
85.2667	0.3753	26.8173	0.0004	26.8177
85.3	0.379	26.6726	0.0004	26.673
85.3333	0.3763	26.5148	0.0004	26.5152
85.3667	0.376	26.4096	0.0017	26.4114
85.4	0.379	26.265	0.0004	26.2654
85.4333	0.376	26.2124	0	26.2124
85.4667	0.3783	26.0546	0.0004	26.055
85.5	0.3717	25.9231	0.0004	25.9235
85.5333	0.376	25.7916	0.0017	25.7933
85.5667	0.372	25.7259	0.0017	25.7276
85.6	0.372	25.6338	0.0004	25.6342
85.6333	0.3717	25.4234	0.0004	25.4238
85.6667	0.3701	25.3314	0.0017	25.3331
85.7	0.3711	25.2393	0.0004	25.2397
85.7333	0.3697	25.121	0.0004	25.1214
85.7667	0.3655	24.95	0.0017	24.9517
85.8	0.3681	24.9237	0.0004	24.9241
85.8333	0.3638	24.8185	0	24.8185
85.8667	0.3641	24.7659	0	24.7659
85.9	0.3612	24.6213	0.0017	24.623
85.9333	0.3655	24.4635	0.0004	24.4639
85.9667	0.3632	24.332	0	24.332

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
86	0.3625	24.2268	0.0017	24.2285
86.0333	0.3612	24.1479	0.0004	24.1483
86.0667	0.3589	24.0427	0.0004	24.0431
86.1	0.3609	23.9375	0	23.9375
86.1333	0.3556	23.8454	0.0004	23.8459
86.1667	0.3566	23.7665	0.0017	23.7683
86.2	0.3569	23.6613	0.0004	23.6618
86.2333	0.353	23.5035	0.0004	23.504
86.2667	0.3513	23.5035	0	23.5035
86.3	0.3523	23.3326	0	23.3326
86.3333	0.3497	23.2669	0	23.2669
86.3667	0.3483	23.1485	0.0017	23.1502
86.4	0.3503	23.1222	0	23.1222
86.4333	0.3497	22.9776	0.0004	22.978
86.4667	0.347	22.9118	0.0004	22.9122
86.5	0.3497	22.7803	0.0017	22.782
86.5333	0.3487	22.7146	0.0017	22.7163
86.5667	0.3497	22.5962	0	22.5962
86.6	0.3516	22.5436	0.0004	22.544
86.6333	0.347	22.4779	0.0017	22.4796
86.6667	0.349	22.4253	0.0017	22.427
86.7	0.3507	22.3332	0.003	22.3363
86.7333	0.3523	22.2938	0.0017	22.2955
86.7667	0.35	22.2017	0.0004	22.2021
86.8	0.3503	22.1491	0.0004	22.1495
86.8333	0.3526	22.0965	0.0004	22.0969
86.8667	0.3516	22.0045	0.0017	22.0062
86.9	0.3523	22.0176	0.0004	22.018
86.9333	0.3526	21.9387	0.0004	21.9391
86.9667	0.3536	21.8861	0.0004	21.8865
87	0.3543	21.7809	0.0017	21.7827
87.0333	0.3549	21.7809	0.0017	21.7827
87.0667	0.3572	21.7152	0	21.7152
87.1	0.351	21.7152	0.0004	21.7156
87.1333	0.3556	21.6363	0.0017	21.638
87.1667	0.3523	21.5311	0.0004	21.5315
87.2	0.3562	21.5311	0.0004	21.5315
87.2333	0.3543	21.5048	0.0017	21.5065
87.2667	0.3546	21.4259	0	21.4259
87.3	0.3582	21.3996	0.0004	21.4
87.3333	0.3549	21.3601	0.0017	21.3619
87.3667	0.3566	21.2812	0.0017	21.283
87.4	0.3569	21.2944	0.0004	21.2948

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
87.4333	0.3549	21.2418	0.0004	21.2422
87.4667	0.3576	21.2418	0	21.2418
87.5	0.3539	21.1892	0	21.1892
87.5333	0.3536	21.1234	0.0017	21.1252
87.5667	0.353	21.1234	0.0017	21.1252
87.6	0.3559	21.1234	0	21.1234
87.6333	0.3559	21.0314	0.0004	21.0318
87.6667	0.3546	21.0445	0.0004	21.045
87.7	0.3553	21.0445	0	21.0445
87.7333	0.3546	20.9525	0	20.9525
87.7667	0.3559	20.8868	0	20.8868
87.8	0.3572	20.9393	0.003	20.9424
87.8333	0.3559	20.821	0	20.821
87.8667	0.3579	20.8868	0.0004	20.8872
87.9	0.3582	20.8868	0.0017	20.8885
87.9333	0.3559	20.8079	0.0004	20.8083
87.9667	0.3569	20.821	0.0004	20.8214
88	0.3579	20.7816	0.0004	20.782
88.0333	0.3556	20.7421	0	20.7421
88.0667	0.3582	20.7158	0.0017	20.7175
88.1	0.3579	20.7158	0	20.7158
88.1333	0.3572	20.7158	0.0017	20.7175
88.1667	0.3582	20.6764	0.0017	20.6781
88.2	0.3582	20.6501	0.0017	20.6518
88.2333	0.3579	20.5975	0.0004	20.5979
88.2667	0.3586	20.6369	0.0004	20.6373
88.3	0.3602	20.5317	0.0004	20.5321
88.3333	0.3612	20.5449	0.0004	20.5453
88.3667	0.3576	20.5975	0	20.5975
88.4	0.3566	20.6369	0	20.6369
88.4333	0.3599	20.5449	0.0004	20.5453
88.4667	0.3592	20.5186	0.0004	20.519
88.5	0.3582	20.5054	0.0004	20.5058
88.5333	0.3592	20.4791	0	20.4791
88.5667	0.3582	20.5054	0.0004	20.5058
88.6	0.3599	20.5054	0.0004	20.5058
88.6333	0.3586	20.4923	0.0017	20.494
88.6667	0.3605	20.4134	0	20.4134
88.7	0.3562	20.4265	0.0017	20.4282
88.7333	0.3589	20.4265	0.0017	20.4282
88.7667	0.3556	20.4002	0	20.4002
88.8	0.3599	20.4002	0.0004	20.4006
88.8333	0.3599	20.4002	0.0004	20.4006



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
88.8667	0.3576	20.3871	0	20.3871
88.9	0.3589	20.3476	0.0017	20.3493
88.9333	0.3605	20.3345	0.0004	20.3349
88.9667	0.3579	20.3608	0.0004	20.3612
89	0.3615	20.3082	0	20.3082
89.0333	0.3589	20.2687	0.0004	20.2691
89.0667	0.3605	20.3345	0.0004	20.3349
89.1	0.3599	20.2687	0	20.2687
89.1333	0.3586	20.3345	0.0004	20.3349
89.1667	0.3612	20.3082	0.0004	20.3086
89.2	0.3589	20.2819	0.0017	20.2836
89.2333	0.3576	20.295	0.0004	20.2954
89.2667	0.3562	20.2424	0.0004	20.2428
89.3	0.3589	20.2293	0.0004	20.2297
89.3333	0.3553	20.2687	0.0004	20.2691
89.3667	0.3559	20.2424	0	20.2424
89.4	0.3589	20.203	0.0004	20.2034
89.4333	0.3602	20.1898	0.0017	20.1915
89.4667	0.3569	20.203	0.0004	20.2034
89.5	0.3595	20.203	0	20.203
89.5333	0.3566	20.1898	0.0004	20.1902
89.5667	0.3586	20.1372	0.0004	20.1376
89.6	0.3586	20.1635	0.0017	20.1652
89.6333	0.3556	20.1372	0.0004	20.1376
89.6667	0.3595	20.1372	0	20.1372
89.7	0.3595	20.1504	0.0017	20.1521
89.7333	0.3605	20.1241	0.0004	20.1245
89.7667	0.3582	20.0846	0.0004	20.085
89.8	0.3589	20.0978	0	20.0978
89.8333	0.3582	20.1109	0.0017	20.1126
89.8667	0.3618	20.1504	0.0017	20.1521
89.9	0.3609	20.0978	0.0017	20.0995
89.9333	0.3566	20.1372	0.0004	20.1376
89.9667	0.3579	20.0978	0	20.0978
90	0.3576	20.1109	0.0004	20.1113
90.0333	0.3592	20.0978	0	20.0978
90.0667	0.3602	20.0583	0	20.0583
90.1	0.3576	20.0715	0.0017	20.0732
90.1333	0.3569	20.0452	0.0004	20.0456
90.1667	0.3615	20.0715	0.0004	20.0719
90.2	0.3576	20.0715	0.0004	20.0719
90.2333	0.3549	20.0583	0	20.0583
90.2667	0.3605	20.032	0	20.032

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
90.3	0.3592	20.0452	0.0004	20.0456
90.3333	0.3595	20.032	0	20.032
90.3667	0.3576	20.0715	0.0004	20.0719
90.4	0.3618	20.0057	0.0004	20.0061
90.4333	0.3605	20.0715	0	20.0715
90.4667	0.3586	20.0846	0.0004	20.085
90.5	0.3592	20.0189	0.0004	20.0193
90.5333	0.3605	20.0978	0	20.0978
90.5667	0.3602	20.032	0.0017	20.0337
90.6	0.3599	20.0452	0.0004	20.0456
90.6333	0.3602	20.0057	0.0004	20.0061
90.6667	0.3605	20.0583	0.0004	20.0587
90.7	0.3589	20.032	0	20.032
90.7333	0.3562	20.0057	0.0017	20.0074
90.7667	0.3566	20.0583	0.0004	20.0587
90.8	0.3562	20.0452	0.0017	20.0469
90.8333	0.3576	19.9794	0.0004	19.9798
90.8667	0.3599	20.0057	0.0017	20.0074
90.9	0.3572	20.0189	0.0004	20.0193
90.9333	0.3586	19.9926	0.0004	19.993
90.9667	0.3602	20.032	0.0017	20.0337
91	0.3605	19.9794	0.0004	19.9798
91.0333	0.3605	19.9794	0.0017	19.9811
91.0667	0.3592	19.9926	0.0017	19.9943
91.1	0.3586	20.0057	0.0004	20.0061
91.1333	0.3589	19.94	0	19.94
91.1667	0.3576	20.0057	0	20.0057
91.2	0.3602	19.9794	0	19.9794
91.2333	0.3599	19.9663	0.0017	19.968
91.2667	0.3625	19.9794	0	19.9794
91.3	0.3586	19.9663	0.0004	19.9667
91.3333	0.3622	20.0057	0.0004	20.0061
91.3667	0.3595	19.9531	0	19.9531
91.4	0.3589	19.9531	0.0004	19.9535
91.4333	0.3605	20.0452	0.0004	20.0456
91.4667	0.3632	19.9794	0.0004	19.9798
91.5	0.3582	19.9531	0	19.9531
91.5333	0.3615	19.9531	0.0017	19.9549
91.5667	0.3599	19.9531	0	19.9531
91.6	0.3599	19.9005	0.0004	19.9009
91.6333	0.3592	19.9531	0.0004	19.9535
91.6667	0.3592	19.9794	0	19.9794
91.7	0.3618	19.9137	0.0017	19.9154

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
91.7333	0.3569	19.9663	0.0004	19.9667
91.7667	0.3615	19.94	0	19.94
91.8	0.3592	19.94	0.0017	19.9417
91.8333	0.3592	19.9137	0.0017	19.9154
91.8667	0.3605	19.9137	0.0004	19.9141
91.9	0.3592	19.9005	0.0004	19.9009
91.9333	0.3609	19.94	0	19.94
91.9667	0.3589	19.9663	0	19.9663
92	0.3602	19.94	0.0017	19.9417
92.0333	0.3618	19.9531	0.0004	19.9535
92.0667	0.3576	19.94	0.0017	19.9417
92.1	0.3592	19.9531	0.0004	19.9535
92.1333	0.3586	19.9531	0.0004	19.9535
92.1667	0.3602	19.9137	0	19.9137
92.2	0.3622	19.9005	0.0004	19.9009
92.2333	0.3599	19.9137	0.0017	19.9154
92.2667	0.3605	19.9531	0.0017	19.9549
92.3	0.3592	19.9137	0.0017	19.9154
92.3333	0.3592	19.9005	0.0017	19.9023
92.3667	0.3599	19.9137	0.0004	19.9141
92.4	0.3592	19.9268	0	19.9268
92.4333	0.3605	19.9663	0.0004	19.9667
92.4667	0.3576	19.9268	0.0004	19.9272
92.5	0.3599	19.9268	0	19.9268
92.5333	0.3579	19.9137	0.0004	19.9141
92.5667	0.3605	19.8874	0.0004	19.8878
92.6	0.3618	19.9137	0.0017	19.9154
92.6333	0.3618	19.94	0.0004	19.9404
92.6667	0.3592	19.9005	0.0017	19.9023
92.7	0.3622	19.9268	0.0004	19.9272
92.7333	0.3612	19.9531	0.0004	19.9535
92.7667	0.3586	19.9663	0.0004	19.9667
92.8	0.3609	19.9531	0.0004	19.9535
92.8333	0.3599	19.9137	0.0004	19.9141
92.8667	0.3615	19.9268	0	19.9268
92.9	0.3618	19.9137	0.0004	19.9141
92.9333	0.3579	19.9268	0	19.9268
92.9667	0.3586	19.9137	0.003	19.9167
93	0.3599	19.8611	0.0017	19.8628
93.0333	0.3609	19.8742	0	19.8742
93.0667	0.3615	19.9268	0	19.9268
93.1	0.3605	19.9137	0.0004	19.9141
93.1333	0.3595	19.9137	0.0004	19.9141

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
93.1667	0.3576	19.9268	0.0017	19.9286
93.2	0.3599	19.9268	0	19.9268
93.2333	0.3586	19.9268	0	19.9268
93.2667	0.3592	19.9531	0.0004	19.9535
93.3	0.3599	19.9137	0.0004	19.9141
93.3333	0.3576	19.9137	0.0004	19.9141
93.3667	0.3632	19.9005	0.0004	19.9009
93.4	0.3609	19.8742	0.0004	19.8746
93.4333	0.3615	19.8611	0.0004	19.8615
93.4667	0.3595	19.9268	0.0004	19.9272
93.5	0.3595	19.9531	0.0004	19.9535
93.5333	0.3599	19.9531	0.0004	19.9535
93.5667	0.3609	19.8874	0.0004	19.8878
93.6	0.3605	19.9268	0.0004	19.9272
93.6333	0.3595	19.9005	0.0004	19.9009
93.6667	0.3609	19.94	0.0004	19.9404
93.7	0.3615	19.9268	0.0004	19.9272
93.7333	0.3576	19.9137	0.0004	19.9141
93.7667	0.3632	19.9268	0.0004	19.9272
93.8	0.3599	19.9531	0.0017	19.9549
93.8333	0.3615	19.9137	0.0017	19.9154
93.8667	0.3625	19.9268	0	19.9268
93.9	0.3609	19.9005	0	19.9005
93.9333	0.3638	19.9005	0	19.9005
93.9667	0.3602	19.9005	0	19.9005
94	0.3595	19.9137	0.0004	19.9141
94.0333	0.3618	19.94	0.0004	19.9404
94.0667	0.3592	19.8742	0	19.8742
94.1	0.3592	19.9794	0.0004	19.9798
94.1333	0.3579	19.8874	0	19.8874
94.1667	0.3595	19.9137	0	19.9137
94.2	0.3628	19.8742	0.0004	19.8746
94.2333	0.3638	19.9005	0.0004	19.9009
94.2667	0.3612	19.9268	0.0004	19.9272
94.3	0.3612	19.9137	0.0004	19.9141
94.3333	0.3595	19.94	0.0004	19.9404
94.3667	0.3645	19.9268	0.0004	19.9272
94.4	0.3612	19.9531	0.0017	19.9549
94.4333	0.3609	19.9005	0.0017	19.9023
94.4667	0.3615	19.9005	0	19.9005
94.5	0.3615	19.9005	0.0004	19.9009
94.5333	0.3618	19.8742	0.0004	19.8746
94.5667	0.3609	19.9137	0.0004	19.9141

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
94.6	0.3609	19.94	0	19.94
94.6333	0.3612	19.9531	0.0004	19.9535
94.6667	0.3592	19.9663	0.0017	19.968
94.7	0.3638	19.94	0.0004	19.9404
94.7333	0.3651	19.94	0	19.94
94.7667	0.3615	19.9005	0.0004	19.9009
94.8	0.3605	19.9005	0.0017	19.9023
94.8333	0.3648	19.9005	0.0004	19.9009
94.8667	0.3592	19.94	0	19.94
94.9	0.3602	19.8874	0	19.8874
94.9333	0.3618	19.9531	0.0004	19.9535
94.9667	0.3641	19.94	0.0004	19.9404
95	0.3615	19.9926	0	19.9926
95.0333	0.3612	19.94	0.0017	19.9417
95.0667	0.3618	19.9268	0.0004	19.9272
95.1	0.3615	19.94	0.0004	19.9404
95.1333	0.3628	19.9137	0.0017	19.9154
95.1667	0.3632	19.9268	0	19.9268
95.2	0.3648	19.9531	0.0017	19.9549
95.2333	0.3615	19.94	0	19.94
95.2667	0.3638	19.9268	0.0004	19.9272
95.3	0.3632	19.9531	0.0017	19.9549
95.3333	0.3632	19.9268	0.003	19.9299
95.3667	0.3628	19.9531	0.0004	19.9535
95.4	0.3651	20.032	0.0017	20.0337
95.4333	0.3632	19.94	0.0004	19.9404
95.4667	0.3622	19.9663	0.0017	19.968
95.5	0.3628	19.9531	0.0017	19.9549
95.5333	0.3605	19.9926	0	19.9926
95.5667	0.3632	19.9531	0.0004	19.9535
95.6	0.3648	19.9794	0.003	19.9825
95.6333	0.3671	20.0057	0.0004	20.0061
95.6667	0.3648	19.9794	0	19.9794
95.7	0.3625	19.94	0.0017	19.9417
95.7333	0.3612	19.9663	0	19.9663
95.7667	0.3632	19.94	0	19.94
95.8	0.3628	19.9926	0.0017	19.9943
95.8333	0.3612	19.9794	0	19.9794
95.8667	0.3635	19.9268	0.0017	19.9286
95.9	0.3618	20.0189	0.0004	20.0193
95.9333	0.3618	19.9531	0.0004	19.9535
95.9667	0.3628	19.9794	0.0004	19.9798
96	0.3641	19.9663	0.0004	19.9667

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
96.0333	0.3641	19.9663	0.0017	19.968
96.0667	0.3658	19.9268	0.0004	19.9272
96.1	0.3665	20.0189	0.0004	20.0193
96.1333	0.3648	19.9794	0.0004	19.9798
96.1667	0.3641	19.9794	0.0004	19.9798
96.2	0.3661	19.9794	0	19.9794
96.2333	0.3661	20.0057	0.0004	20.0061
96.2667	0.3609	19.9663	0.0004	19.9667
96.3	0.3645	19.9926	0.0004	19.993
96.3333	0.3618	20.0057	0.0004	20.0061
96.3667	0.3622	20.0057	0.0004	20.0061
96.4	0.3655	19.9531	0.0004	19.9535
96.4333	0.3628	19.9926	0.0004	19.993
96.4667	0.3632	19.9663	0.0004	19.9667
96.5	0.3648	20.0189	0.0004	20.0193
96.5333	0.3651	20.0057	0.0004	20.0061
96.5667	0.3635	19.9926	0.0004	19.993
96.6	0.3632	20.032	0.0004	20.0324
96.6333	0.3618	20.032	0.0004	20.0324
96.6667	0.3628	20.0057	0	20.0057
96.7	0.3641	20.032	0	20.032
96.7333	0.3635	20.0057	0.0017	20.0074
96.7667	0.3648	19.9531	0.003	19.9562
96.8	0.3638	20.0057	0.0004	20.0061
96.8333	0.3632	19.9926	0	19.9926
96.8667	0.3638	20.0189	0.0004	20.0193
96.9	0.3632	19.9663	0	19.9663
96.9333	0.3635	19.9794	0.0004	19.9798
96.9667	0.3651	20.0057	0.0004	20.0061
97	0.3655	20.0057	0.0017	20.0074
97.0333	0.3645	20.0189	0.0004	20.0193
97.0667	0.3628	19.9268	0.0004	19.9272
97.1	0.3641	20.0057	0.0017	20.0074
97.1333	0.3632	20.0583	0.0004	20.0587
97.1667	0.3665	19.9794	0.0004	19.9798
97.2	0.3661	20.0057	0.0004	20.0061
97.2333	0.3645	19.9926	0.0004	19.993
97.2667	0.3615	19.9531	0.0004	19.9535
97.3	0.3651	19.9531	0.0017	19.9549
97.3333	0.3648	19.9794	0.0004	19.9798
97.3667	0.3651	20.0057	0.0004	20.0061
97.4	0.3641	19.9663	0.0017	19.968
97.4333	0.3618	19.9926	0.0004	19.993

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
97.4667	0.3635	20.0057	0.0017	20.0074
97.5	0.3618	20.032	0.0017	20.0337
97.5333	0.3655	20.0057	0.0004	20.0061
97.5667	0.3641	20.0057	0.0004	20.0061
97.6	0.3655	20.0583	0.0004	20.0587
97.6333	0.3641	19.9663	0.0004	19.9667
97.6667	0.3641	19.9663	0.0017	19.968
97.7	0.3645	20.032	0.0017	20.0337
97.7333	0.3612	19.9926	0.0004	19.993
97.7667	0.3595	20.0057	0.0004	20.0061
97.8	0.3635	19.9926	0.0004	19.993
97.8333	0.3648	20.0057	0	20.0057
97.8667	0.3655	20.032	0.0004	20.0324
97.9	0.3638	20.032	0.0004	20.0324
97.9333	0.3641	20.0057	0.0017	20.0074
97.9667	0.3648	20.0057	0.0004	20.0061
98	0.3641	20.0189	0.0004	20.0193
98.0333	0.3632	20.0452	0.0004	20.0456
98.0667	0.3648	19.9926	0	19.9926
98.1	0.3628	19.9926	0.0017	19.9943
98.1333	0.3648	20.032	0.0004	20.0324
98.1667	0.3655	20.032	0.0004	20.0324
98.2	0.3602	20.0189	0.0017	20.0206
98.2333	0.3622	19.94	0.0004	19.9404
98.2667	0.3612	20.032	0.0004	20.0324
98.3	0.3612	19.9663	0	19.9663
98.3333	0.3615	19.9794	0.0017	19.9811
98.3667	0.3622	19.94	0.0004	19.9404
98.4	0.3632	20.032	0	20.032
98.4333	0.3655	19.9137	0.0017	19.9154
98.4667	0.3622	20.032	0	20.032
98.5	0.3612	19.9926	0.0004	19.993
98.5333	0.3635	20.0189	0.0017	20.0206
98.5667	0.3609	19.9794	0.0004	19.9798
98.6	0.3641	19.9926	0	19.9926
98.6333	0.3651	19.9531	0.0004	19.9535
98.6667	0.3595	19.9926	0	19.9926
98.7	0.3622	20.0057	0.0004	20.0061
98.7333	0.3628	19.9663	0	19.9663
98.7667	0.3602	19.94	0.0004	19.9404
98.8	0.3638	19.94	0.0004	19.9404
98.8333	0.3622	19.9926	0	19.9926
98.8667	0.3609	19.9531	0.0004	19.9535

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
98.9	0.3635	19.9794	0.0004	19.9798
98.9333	0.3618	19.9531	0.0004	19.9535
98.9667	0.3638	19.94	0.0004	19.9404
99	0.3609	19.94	0.0004	19.9404
99.0333	0.3638	19.9926	0.0004	19.993
99.0667	0.3635	19.9926	0.0004	19.993
99.1	0.3651	19.9794	0.0004	19.9798
99.1333	0.3632	19.9663	0.0004	19.9667
99.1667	0.3638	19.9926	0.0017	19.9943
99.2	0.3618	19.9926	0.0004	19.993
99.2333	0.3609	19.9794	0.0017	19.9811
99.2667	0.3648	19.9531	0	19.9531
99.3	0.3612	19.9268	0.0004	19.9272
99.3333	0.3641	19.94	0.0017	19.9417
99.3667	0.3609	19.94	0.0004	19.9404
99.4	0.3632	19.9531	0.0004	19.9535
99.4333	0.3615	19.9663	0	19.9663
99.4667	0.3641	19.9005	0.0004	19.9009
99.5	0.3648	19.94	0.0017	19.9417
99.5333	0.3622	19.9268	0.0004	19.9272
99.5667	0.3645	19.9268	0	19.9268
99.6	0.3645	19.9137	0	19.9137
99.6333	0.3592	20.0189	0.0004	20.0193
99.6667	0.3605	19.9137	0.0004	19.9141
99.7	0.3622	19.94	0.0017	19.9417
99.7333	0.3635	19.9531	0.0004	19.9535
99.7667	0.3618	19.9794	0.0017	19.9811
99.8	0.3605	19.9268	0.0004	19.9272
99.8333	0.3595	20.0057	0.0017	20.0074
99.8667	0.3635	19.9531	0.0017	19.9549
99.9	0.3605	19.9137	0.0004	19.9141
99.9333	0.3641	19.9268	0	19.9268
99.9667	0.3618	19.94	0.0004	19.9404
100	0.3602	19.9268	0	19.9268
100.0333	0.3618	19.9531	0	19.9531
100.0667	0.3615	19.94	0	19.94
100.1	0.3605	19.9531	0.0004	19.9535
100.1333	0.3612	19.9005	0.0017	19.9023
100.1667	0.3602	19.9137	0.0004	19.9141
100.2	0.3635	19.9926	0.0004	19.993
100.2333	0.3632	19.9663	0	19.9663
100.2667	0.3615	19.9531	0.0017	19.9549
100.3	0.3641	19.9268	0.0004	19.9272



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
100.3333	0.3622	19.9268	0.0004	19.9272
100.3667	0.3618	19.9663	0.0004	19.9667
100.4	0.3592	19.94	0.0004	19.9404
100.4333	0.3655	19.9531	0.0004	19.9535
100.4667	0.3612	19.94	0	19.94
100.5	0.3605	19.94	0.0004	19.9404
100.5333	0.3628	19.9137	0.0017	19.9154
100.5667	0.3622	19.94	0.0004	19.9404
100.6	0.3615	19.9268	0.0017	19.9286
100.6333	0.3592	19.8874	0.0004	19.8878
100.6667	0.3622	19.94	0.0017	19.9417
100.7	0.3628	19.9663	0.0017	19.968
100.7333	0.3622	19.94	0.0004	19.9404
100.7667	0.3655	19.94	0.0004	19.9404
100.8	0.3622	19.8874	0.0004	19.8878
100.8333	0.3609	19.9268	0	19.9268
100.8667	0.3628	19.9137	0	19.9137
100.9	0.3605	19.9794	0	19.9794
100.9333	0.3602	19.9531	0.0004	19.9535
100.9667	0.3622	19.8874	0.0017	19.8891
101	0.3615	19.9005	0	19.9005
101.0333	0.3615	19.9005	0	19.9005
101.0667	0.3599	19.9663	0.0004	19.9667
101.1	0.3609	19.9268	0.0004	19.9272
101.1333	0.3595	19.9663	0	19.9663
101.1667	0.3625	19.9268	0	19.9268
101.2	0.3589	19.9531	0.0004	19.9535
101.2333	0.3582	19.9005	0	19.9005
101.2667	0.3592	19.9268	0	19.9268
101.3	0.3586	19.9137	0	19.9137
101.3333	0.3592	19.94	0.0004	19.9404
101.3667	0.3609	19.9268	0.0004	19.9272
101.4	0.3605	19.9268	0.0004	19.9272
101.4333	0.3641	19.9005	0	19.9005
101.4667	0.3641	19.9137	0.0017	19.9154
101.5	0.3625	19.94	0.0004	19.9404
101.5333	0.3632	19.94	0	19.94
101.5667	0.3632	19.8874	0.0004	19.8878
101.6	0.3661	19.94	0.0004	19.9404
101.6333	0.3602	19.9137	0.0004	19.9141
101.6667	0.3645	19.8742	0.0017	19.876
101.7	0.3618	19.9005	0.0004	19.9009
101.7333	0.3595	19.8874	0.0004	19.8878

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
101.7667	0.3635	19.94	0	19.94
101.8	0.3615	19.9005	0.0004	19.9009
101.8333	0.3622	19.9137	0.0004	19.9141
101.8667	0.3605	19.94	0.0004	19.9404
101.9	0.3628	19.94	0.0004	19.9404
101.9333	0.3635	19.9531	0	19.9531
101.9667	0.3638	19.9268	0.0004	19.9272
102	0.3638	19.9005	0.0004	19.9009
102.0333	0.3615	19.9137	0.0004	19.9141
102.0667	0.3609	19.94	0.0004	19.9404
102.1	0.3618	19.9137	0	19.9137
102.1333	0.3628	19.94	0	19.94
102.1667	0.3622	19.9005	0.0004	19.9009
102.2	0.3579	19.94	0	19.94
102.2333	0.3582	19.9268	0.0017	19.9286
102.2667	0.3609	19.8874	0.003	19.8904
102.3	0.3579	19.8742	0.0004	19.8746
102.3333	0.3605	19.9531	0.0017	19.9549
102.3667	0.3618	19.94	0.0004	19.9404
102.4	0.3612	19.9005	0.0017	19.9023
102.4333	0.3612	19.8874	0.0004	19.8878
102.4667	0.3605	19.9005	0	19.9005
102.5	0.3645	19.9005	0.0004	19.9009
102.5333	0.3625	19.8874	0.0004	19.8878
102.5667	0.3625	19.9005	0	19.9005
102.6	0.3595	19.9531	0	19.9531
102.6333	0.3612	19.9663	0.0017	19.968
102.6667	0.3648	19.9531	0.0004	19.9535
102.7	0.3638	19.9268	0.0004	19.9272
102.7333	0.3635	19.94	0.0004	19.9404
102.7667	0.3622	19.9137	0.0004	19.9141
102.8	0.3602	19.9268	0.0004	19.9272
102.8333	0.3592	19.8874	0.0004	19.8878
102.8667	0.3615	19.9268	0.0004	19.9272
102.9	0.3635	19.8611	0	19.8611
102.9333	0.3625	19.9531	0	19.9531
102.9667	0.3595	19.8479	0.0004	19.8483
103	0.3632	19.9137	0.0004	19.9141
103.0333	0.3609	19.9926	0.0017	19.9943
103.0667	0.3628	19.9268	0.0004	19.9272
103.1	0.3622	19.9005	0	19.9005
103.1333	0.3586	19.9268	0.0004	19.9272
103.1667	0.3595	19.9137	0	19.9137

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
103.2	0.3609	19.9794	0.0004	19.9798
103.2333	0.3632	19.9005	0	19.9005
103.2667	0.3595	19.9005	0.0004	19.9009
103.3	0.3612	19.8874	0.0004	19.8878
103.3333	0.3609	19.9268	0.0004	19.9272
103.3667	0.3625	19.94	0.0004	19.9404
103.4	0.3612	19.8874	0	19.8874
103.4333	0.3609	19.9268	0	19.9268
103.4667	0.3622	19.9268	0.0004	19.9272
103.5	0.3615	19.9005	0.0004	19.9009
103.5333	0.3615	19.9268	0.0004	19.9272
103.5667	0.3615	19.94	0.0004	19.9404
103.6	0.3625	19.9005	0.0004	19.9009
103.6333	0.3625	19.9268	0	19.9268
103.6667	0.3595	19.94	0.0017	19.9417
103.7	0.3605	19.8611	0	19.8611
103.7333	0.3602	19.94	0.0004	19.9404
103.7667	0.3622	19.9005	0	19.9005
103.8	0.3589	19.9531	0.0004	19.9535
103.8333	0.3602	19.8742	0.0004	19.8746
103.8667	0.3582	19.9005	0.0017	19.9023
103.9	0.3635	19.8742	0	19.8742
103.9333	0.3615	19.9268	0	19.9268
103.9667	0.3638	19.9137	0.0004	19.9141
104	0.3586	19.9137	0.0004	19.9141
104.0333	0.3605	19.9137	0.0017	19.9154
104.0667	0.3615	19.9005	0.0004	19.9009
104.1	0.3609	19.94	0.0004	19.9404
104.1333	0.3622	19.9005	0.0004	19.9009
104.1667	0.3628	19.9005	0.0017	19.9023
104.2	0.3599	19.9531	0	19.9531
104.2333	0.3615	19.8479	0.0004	19.8483
104.2667	0.3628	19.8874	0.003	19.8904
104.3	0.3612	19.8874	0	19.8874
104.3333	0.3602	19.9137	0.0004	19.9141
104.3667	0.3622	19.8742	0	19.8742
104.4	0.3592	19.8742	0	19.8742
104.4333	0.3586	19.9268	0.0004	19.9272
104.4667	0.3605	19.9005	0.0004	19.9009
104.5	0.3586	19.9005	0.0004	19.9009
104.5333	0.3602	19.9531	0	19.9531
104.5667	0.3612	19.9005	0	19.9005
104.6	0.3605	19.9137	0.0004	19.9141

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
104.6333	0.3628	19.8874	0.0017	19.8891
104.6667	0.3622	19.8742	0.0004	19.8746
104.7	0.3628	19.8611	0.0004	19.8615
104.7333	0.3579	19.9005	0.0004	19.9009
104.7667	0.3592	19.8742	0.0004	19.8746
104.8	0.3609	19.8874	0	19.8874
104.8333	0.3622	19.8742	0	19.8742
104.8667	0.3628	19.9005	0.0017	19.9023
104.9	0.3599	19.8611	0	19.8611
104.9333	0.3622	19.8874	0.0017	19.8891
104.9667	0.3615	19.8479	0	19.8479
105	0.3592	19.8874	0.0004	19.8878
105.0333	0.3615	19.9137	0.0004	19.9141
105.0667	0.3602	19.9137	0.0004	19.9141
105.1	0.3586	19.9137	0.0004	19.9141
105.1333	0.3599	19.8874	0	19.8874
105.1667	0.3628	19.9268	0	19.9268
105.2	0.3586	19.8874	0.0004	19.8878
105.2333	0.3605	19.8874	0	19.8874
105.2667	0.3609	19.8479	0.0004	19.8483
105.3	0.3635	19.8874	0.0004	19.8878
105.3333	0.3595	19.8742	0.0017	19.876
105.3667	0.3605	19.9005	0.0004	19.9009
105.4	0.3615	19.8479	0	19.8479
105.4333	0.3602	19.9137	0.0004	19.9141
105.4667	0.3609	19.9137	0	19.9137
105.5	0.3602	19.9268	0.0017	19.9286
105.5333	0.3628	19.8742	0.0004	19.8746
105.5667	0.3609	19.8742	0.0017	19.876
105.6	0.3635	19.9137	0.0004	19.9141
105.6333	0.3612	19.9005	0.0004	19.9009
105.6667	0.3605	19.8874	0.0017	19.8891
105.7	0.3576	19.8742	0.0004	19.8746
105.7333	0.3592	19.8742	0	19.8742
105.7667	0.3615	19.9005	0.0017	19.9023
105.8	0.3615	19.9268	0.0004	19.9272
105.8333	0.3622	19.9005	0	19.9005
105.8667	0.3595	19.9137	0	19.9137
105.9	0.3615	19.8742	0.0004	19.8746
105.9333	0.3579	19.9137	0.0017	19.9154
105.9667	0.3592	19.8611	0.0017	19.8628
106	0.3605	19.9005	0.0017	19.9023
106.0333	0.3625	19.9268	0	19.9268

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
106.0667	0.3595	19.9137	0.0004	19.9141
106.1	0.3612	19.9005	0	19.9005
106.1333	0.3615	19.8479	0	19.8479
106.1667	0.3615	19.8874	0.0004	19.8878
106.2	0.3615	19.8742	0.0017	19.876
106.2333	0.3582	19.8611	0.0004	19.8615
106.2667	0.3592	19.8479	0.0004	19.8483
106.3	0.3582	19.8742	0.0004	19.8746
106.3333	0.3589	19.8611	0.0004	19.8615
106.3667	0.3609	19.8611	0.0004	19.8615
106.4	0.3615	19.8874	0.0004	19.8878
106.4333	0.3602	19.8742	0.0004	19.8746
106.4667	0.3609	19.8611	0.0004	19.8615
106.5	0.3625	19.9005	0.0017	19.9023
106.5333	0.3602	19.8348	0	19.8348
106.5667	0.3602	19.8611	0	19.8611
106.6	0.3605	19.8348	0	19.8348
106.6333	0.3605	19.8742	0.0004	19.8746
106.6667	0.3605	19.8611	0.0017	19.8628
106.7	0.3595	19.8742	0	19.8742
106.7333	0.3612	19.8742	0.0017	19.876
106.7667	0.3628	19.8742	0.0004	19.8746
106.8	0.3595	19.8874	0.0004	19.8878
106.8333	0.3602	19.8611	0.0004	19.8615
106.8667	0.3615	19.8874	0.0004	19.8878
106.9	0.3582	19.8874	0.0017	19.8891
106.9333	0.3615	19.8479	0.0004	19.8483
106.9667	0.3589	19.9005	0.0004	19.9009
107	0.3615	19.8348	0.0017	19.8365
107.0333	0.3595	19.8742	0.0004	19.8746
107.0667	0.3612	19.8742	0.0004	19.8746
107.1	0.3582	19.8611	0.0004	19.8615
107.1333	0.3602	19.8742	0.0004	19.8746
107.1667	0.3576	19.8611	0.0004	19.8615
107.2	0.3602	19.9268	0.0017	19.9286
107.2333	0.3615	19.8216	0.0004	19.822
107.2667	0.3602	19.8479	0.0017	19.8497
107.3	0.3586	19.9137	0.0017	19.9154
107.3333	0.3592	19.8874	0.0004	19.8878
107.3667	0.3609	19.8874	0.0004	19.8878
107.4	0.3579	19.8611	0.0004	19.8615
107.4333	0.3599	19.9005	0.0004	19.9009
107.4667	0.3599	19.8479	0.0004	19.8483

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
107.5	0.3589	19.8085	0.0004	19.8089
107.5333	0.3605	19.8611	0.0004	19.8615
107.5667	0.3576	19.8874	0.0017	19.8891
107.6	0.3602	19.9137	0.0004	19.9141
107.6333	0.3599	19.8611	0.0004	19.8615
107.6667	0.3582	19.8348	0.0004	19.8352
107.7	0.3609	19.8348	0.0017	19.8365
107.7333	0.3602	19.8742	0	19.8742
107.7667	0.3609	19.8085	0.0004	19.8089
107.8	0.3602	19.8216	0.0004	19.822
107.8333	0.3595	19.8216	0.0004	19.822
107.8667	0.3612	19.8874	0.0004	19.8878
107.9	0.3599	19.8742	0.0004	19.8746
107.9333	0.3592	19.8479	0.0017	19.8497
107.9667	0.3576	19.8742	0.0004	19.8746
108	0.3589	19.8479	0.0017	19.8497
108.0333	0.3589	19.7953	0.0004	19.7957
108.0667	0.3628	19.8742	0	19.8742
108.1	0.3615	19.9005	0.0004	19.9009
108.1333	0.3592	19.8479	0.0004	19.8483
108.1667	0.3586	19.8479	0.0004	19.8483
108.2	0.3605	19.8479	0.0004	19.8483
108.2333	0.3595	19.8348	0	19.8348
108.2667	0.3628	19.8479	0.0017	19.8497
108.3	0.3615	19.769	0.0004	19.7694
108.3333	0.3599	19.8874	0.0004	19.8878
108.3667	0.3618	19.8216	0.0004	19.822
108.4	0.3618	19.8479	0.0004	19.8483
108.4333	0.3572	19.8874	0.0004	19.8878
108.4667	0.3602	19.8479	0	19.8479
108.5	0.3602	19.8216	0.0004	19.822
108.5333	0.3569	19.8348	0.0004	19.8352
108.5667	0.3622	19.8348	0.0017	19.8365
108.6	0.3625	19.8216	0.0004	19.822
108.6333	0.3592	19.8216	0	19.8216
108.6667	0.3589	19.8348	0.0004	19.8352
108.7	0.3592	19.8348	0.0004	19.8352
108.7333	0.3602	19.8874	0.0004	19.8878
108.7667	0.3602	19.8216	0.0017	19.8234
108.8	0.3602	19.8216	0.0017	19.8234
108.8333	0.3618	19.8085	0.0004	19.8089
108.8667	0.3602	19.8479	0.0004	19.8483
108.9	0.3609	19.7953	0	19.7953

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
108.9333	0.3589	19.7953	0.0017	19.7971
108.9667	0.3576	19.8348	0	19.8348
109	0.3609	19.8742	0.0004	19.8746
109.0333	0.3605	19.8479	0.0004	19.8483
109.0667	0.3586	19.8742	0.0004	19.8746
109.1	0.3599	19.8348	0	19.8348
109.1333	0.3595	19.8874	0	19.8874
109.1667	0.3609	19.8348	0.0004	19.8352
109.2	0.3569	19.8611	0.0004	19.8615
109.2333	0.3622	19.8479	0.0004	19.8483
109.2667	0.3595	19.8611	0.0004	19.8615
109.3	0.3609	19.8085	0.0017	19.8102
109.3333	0.3622	19.8216	0.0017	19.8234
109.3667	0.3599	19.8085	0.0004	19.8089
109.4	0.3618	19.7953	0	19.7953
109.4333	0.3592	19.7953	0	19.7953
109.4667	0.3615	19.8085	0.0004	19.8089
109.5	0.3572	19.8348	0	19.8348
109.5333	0.3609	19.8216	0.0004	19.822
109.5667	0.3635	19.7953	0.0017	19.7971
109.6	0.3615	19.8348	0.0017	19.8365
109.6333	0.3622	19.8348	0.0004	19.8352
109.6667	0.3618	19.7822	0.0004	19.7826
109.7	0.3609	19.8611	0.0004	19.8615
109.7333	0.3609	19.8348	0.0004	19.8352
109.7667	0.3586	19.8085	0.0017	19.8102
109.8	0.3595	19.8479	0	19.8479
109.8333	0.3602	19.8348	0.0004	19.8352
109.8667	0.3566	19.8216	0.0004	19.822
109.9	0.3595	19.7427	0	19.7427
109.9333	0.3586	19.8216	0.0017	19.8234
109.9667	0.3582	19.7953	0.0017	19.7971
110	0.3595	19.7822	0.0004	19.7826
110.0333	0.3605	19.8216	0.0017	19.8234
110.0667	0.3602	19.8085	0.0004	19.8089
110.1	0.3595	19.769	0	19.769
110.1333	0.3569	19.8085	0.0004	19.8089
110.1667	0.3618	19.8216	0	19.8216
110.2	0.3579	19.7822	0.0004	19.7826
110.2333	0.3539	19.7953	0	19.7953
110.2667	0.349	19.8085	0.0004	19.8089
110.3	0.3444	19.7559	0.0017	19.7576
110.3333	0.3398	19.7427	0.0004	19.7431

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
110.3667	0.3187	19.6507	0.0017	19.6524
110.4	0.2924	19.5849	0.0004	19.5853
110.4333	0.2687	19.4534	0.0004	19.4538
110.4667	0.2529	19.1904	0	19.1904
110.5	0.2348	18.9143	0.0004	18.9147
110.5333	0.2193	18.717	0.0017	18.7188
110.5667	0.2009	18.4146	0.0004	18.415
110.6	0.1884	18.099	0.0004	18.0994
110.6333	0.1759	17.744	0	17.744
110.6667	0.1677	17.4547	0.0004	17.4551
110.7	0.1565	17.1522	0.0004	17.1526
110.7333	0.1446	16.784	0.0004	16.7845
110.7667	0.1423	16.429	0.0004	16.4294
110.8	0.1374	16.1397	0.0004	16.1401
110.8333	0.1331	15.8241	0	15.8241
110.8667	0.1328	15.4822	0.0004	15.4826
110.9	0.1338	15.3113	0.0004	15.3117
110.9333	0.1328	14.9825	0.0004	14.9829
110.9667	0.1328	14.6932	0.0004	14.6936
111	0.1311	14.4828	0.0004	14.4832
111.0333	0.1417	14.2987	0.0004	14.2992
111.0667	0.1604	14.1541	0.0017	14.1558
111.1	0.1746	14.1146	0.0004	14.1151
111.1333	0.189	14.0357	0.0004	14.0362
111.1667	0.2002	14.062	0.0004	14.0625
111.2	0.2154	14.1278	0.0004	14.1282
111.2333	0.2233	14.1935	0.0004	14.194
111.2667	0.2282	14.2198	0.0004	14.2203
111.3	0.2394	14.2856	0.0004	14.286
111.3333	0.2503	14.3776	0	14.3776
111.3667	0.2634	14.5091	0.0004	14.5095
111.4	0.275	14.6669	0.0004	14.6673
111.4333	0.2891	14.8247	0.0017	14.8265
111.4667	0.3016	15.022	0	15.022
111.5	0.3069	15.1666	0.0004	15.167
111.5333	0.3191	15.3902	0.0004	15.3906
111.5667	0.3266	15.5611	0.003	15.5642
111.6	0.3375	15.7452	0.0004	15.7456
111.6333	0.3451	15.9162	0.0004	15.9166
111.6667	0.3523	16.1397	0.0004	16.1401
111.7	0.3582	16.3369	0	16.3369
111.7333	0.3658	16.5736	0	16.5736
111.7667	0.3711	16.6657	0.0004	16.6661



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
111.8	0.3783	16.9418	0.0004	16.9422
111.8333	0.3829	17.1128	0.0004	17.1132
111.8667	0.3859	17.2837	0.0017	17.2855
111.9	0.3892	17.4547	0.0004	17.4551
111.9333	0.3957	17.5862	0	17.5862
111.9667	0.3984	17.8097	0.0004	17.8101
112	0.4013	17.9938	0.0004	17.9942
112.0333	0.4033	18.1648	0.0017	18.1665
112.0667	0.4083	18.27	0.0004	18.2704
112.1	0.4138	18.4146	0.0004	18.415
112.1333	0.4155	18.5198	0.0017	18.5215
112.1667	0.4178	18.7302	0	18.7302
112.2	0.4204	18.8617	0.0017	18.8634
112.2333	0.4214	19.0589	0.0017	19.0607
112.2667	0.4211	19.151	0.0004	19.1514
112.3	0.4273	19.243	0.0017	19.2448
112.3333	0.428	19.3745	0	19.3745
112.3667	0.4303	19.506	0	19.506
112.4	0.4339	19.5981	0.0017	19.5998
112.4333	0.4349	19.7164	0.0004	19.7168
112.4667	0.4362	19.8479	0	19.8479
112.5	0.4389	19.9005	0.0004	19.9009
112.5333	0.4385	20.0057	0.0017	20.0074
112.5667	0.4389	20.1767	0.0004	20.1771
112.6	0.4441	20.2161	0.0004	20.2165
112.6333	0.4428	20.3082	0.0004	20.3086
112.6667	0.4425	20.466	0	20.466
112.7	0.4471	20.5317	0.0004	20.5321
112.7333	0.456	20.6369	0.0017	20.6386
112.7667	0.4616	20.7553	0.0017	20.757
112.8	0.4685	20.8342	0	20.8342
112.8333	0.4744	21.0182	0.0017	21.02
112.8667	0.4813	21.0708	0.0004	21.0713
112.9	0.4849	21.2418	0.0004	21.2422
112.9333	0.4932	21.3338	0.0004	21.3343
112.9667	0.4974	21.4916	0.0004	21.4921
113	0.5024	21.61	0	21.61
113.0333	0.506	21.702	0.0004	21.7024
113.0667	0.5119	21.873	0	21.873
113.1	0.5113	22.0176	0.0004	22.018
113.1333	0.5182	22.1097	0	22.1097
113.1667	0.5231	22.2149	0	22.2149
113.2	0.5284	22.3595	0	22.3595

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
113.2333	0.5356	22.4779	0.0004	22.4783
113.2667	0.5429	22.6357	0	22.6357
113.3	0.5511	22.754	0.0004	22.7544
113.3333	0.5557	22.8724	0	22.8724
113.3667	0.5606	23.0565	0.0004	23.0569
113.4	0.5669	23.1617	0.0017	23.1634
113.4333	0.5705	23.3326	0.0004	23.333
113.4667	0.5748	23.5035	0.0004	23.504
113.5	0.5814	23.6219	0	23.6219
113.5333	0.585	23.7402	0.0004	23.7407
113.5667	0.5893	23.898	0.0004	23.8985
113.6	0.5909	24.0032	0.0004	24.0037
113.6333	0.5959	24.1742	0.0017	24.1759
113.6667	0.5991	24.2794	0	24.2794
113.7	0.6031	24.5029	0.0004	24.5033
113.7333	0.609	24.5424	0.0004	24.5428
113.7667	0.611	24.7396	0.0004	24.74
113.8	0.6117	24.8317	0.0004	24.8321
113.8333	0.6189	24.9237	0.0004	24.9241
113.8667	0.6222	25.0158	0.003	25.0188
113.9	0.6215	25.1867	0.0004	25.1871
113.9333	0.6242	25.3577	0	25.3577
113.9667	0.6261	25.3445	0	25.3445
114	0.6304	25.5549	0.0004	25.5553
114.0333	0.634	25.647	0.0004	25.6474
114.0667	0.6383	25.7784	0.0017	25.7802
114.1	0.6423	25.8968	0.0004	25.8972
114.1333	0.6462	25.9625	0.0004	25.963
114.1667	0.6488	26.0809	0.0004	26.0813
114.2	0.6538	26.2781	0.003	26.2812
114.2333	0.6567	26.3176	0.0004	26.318
114.2667	0.6577	26.4228	0.0004	26.4232
114.3	0.6597	26.4885	0.0004	26.4889
114.3333	0.6623	26.6726	0	26.6726
114.3667	0.6689	26.791	0	26.791
114.4	0.6702	26.8173	0.0017	26.819
114.4333	0.6716	26.8699	0	26.8699
114.4667	0.6752	26.9619	0	26.9619
114.5	0.6732	27.1066	0.0017	27.1083
114.5333	0.6788	27.2644	0.0017	27.2661
114.5667	0.6781	27.3696	0	27.3696
114.6	0.6811	27.4222	0.0004	27.4226
114.6333	0.6854	27.4748	0.0004	27.4752

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
114.6667	0.688	27.6457	0.0004	27.6461
114.7	0.6926	27.7115	0.0004	27.7119
114.7333	0.6946	27.7904	0.0017	27.7921
114.7667	0.6992	27.8298	0.0017	27.8315
114.8	0.7002	28.0271	0	28.0271
114.8333	0.7022	28.0928	0.0004	28.0932
114.8667	0.7045	28.1585	0.0004	28.159
114.9	0.7097	28.3295	0.0017	28.3312
114.9333	0.7084	28.3821	0.0004	28.3825
114.9667	0.7127	28.4215	0.0017	28.4233
115	0.7157	28.5136	0.0017	28.5153
115.0333	0.7173	28.6056	0.0004	28.6061
115.0667	0.7193	28.7503	0	28.7503
115.1	0.7219	28.8029	0.0017	28.8046
115.1333	0.7199	28.9344	0.0004	28.9348
115.1667	0.7249	28.9475	0.0017	28.9493
115.2	0.7249	29.0527	0.0017	29.0545
115.2333	0.7285	29.1185	0	29.1185
115.2667	0.7285	29.2237	0.0017	29.2254
115.3	0.7301	29.25	0.0017	29.2517
115.3333	0.7301	29.3552	0.0004	29.3556
115.3667	0.7354	29.3946	0.0004	29.395
115.4	0.7364	29.5656	0	29.5656
115.4333	0.7374	29.6182	0.0004	29.6186
115.4667	0.7367	29.6839	0.0004	29.6843
115.5	0.7371	29.7497	0.0004	29.7501
115.5333	0.7367	29.7628	0.0004	29.7632
115.5667	0.7374	29.8154	0	29.8154
115.6	0.7315	29.9601	0.0004	29.9605
115.6333	0.7331	30.039	0.0017	30.0407
115.6667	0.7288	30.0258	0.0004	30.0262
115.7	0.7249	30.039	0.0004	30.0394
115.7333	0.7265	30.1836	0	30.1836
115.7667	0.7255	30.1573	0	30.1573
115.8	0.7242	30.2231	0.0017	30.2248
115.8333	0.7239	30.2625	0.0017	30.2642
115.8667	0.7249	30.3283	0.0004	30.3287
115.9	0.7222	30.3151	0.0017	30.3168
115.9333	0.7173	30.3677	0.0004	30.3681
115.9667	0.7166	30.3546	0.0004	30.355
116	0.7209	30.4466	0	30.4466
116.0333	0.716	30.4466	0.0017	30.4483
116.0667	0.719	30.4992	0.0004	30.4996

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
116.1	0.7143	30.5255	0.0017	30.5272
116.1333	0.715	30.6044	0	30.6044
116.1667	0.714	30.5649	0.0004	30.5654
116.2	0.715	30.6833	0.0017	30.685
116.2333	0.7137	30.6307	0.0017	30.6324
116.2667	0.7173	30.657	0.0004	30.6574
116.3	0.715	30.6964	0.0017	30.6982
116.3333	0.7127	30.7096	0.0017	30.7113
116.3667	0.715	30.7359	0.0004	30.7363
116.4	0.714	30.7227	0.0044	30.7271
116.4333	0.7153	30.7359	0.0004	30.7363
116.4667	0.7206	30.8148	0	30.8148
116.5	0.7206	30.8805	0.0017	30.8823
116.5333	0.7219	30.8542	0.0004	30.8547
116.5667	0.7222	30.9068	0.0017	30.9086
116.6	0.7226	30.8937	0	30.8937
116.6333	0.7262	30.9331	0	30.9331
116.6667	0.7269	30.9857	0.0004	30.9862
116.7	0.7282	30.9463	0.003	30.9493
116.7333	0.7262	31.0778	0.0004	31.0782
116.7667	0.7288	31.0778	0.0004	31.0782
116.8	0.7269	31.1435	0	31.1435
116.8333	0.7292	31.1435	0	31.1435
116.8667	0.7292	31.1041	0.0004	31.1045
116.9	0.7324	31.183	0.0017	31.1847
116.9333	0.7298	31.1961	0.0017	31.1979
116.9667	0.7331	31.2619	0.0004	31.2623
117	0.7318	31.275	0.0004	31.2755
117.0333	0.7331	31.3013	0.0004	31.3017
117.0667	0.7371	31.2882	0.0017	31.2899
117.1	0.7354	31.3145	0	31.3145
117.1333	0.7334	31.4328	0.0004	31.4332
117.1667	0.7331	31.3802	0.0017	31.382
117.2	0.7295	31.3934	0.0004	31.3938
117.2333	0.7239	31.4328	0.0004	31.4332
117.2667	0.7196	31.4854	0.0004	31.4858
117.3	0.7166	31.4328	0.0004	31.4332
117.3333	0.7157	31.4197	0.0004	31.4201
117.3667	0.714	31.4591	0.0004	31.4595
117.4	0.7114	31.3802	0.003	31.3833
117.4333	0.7114	31.4065	0.0004	31.4069
117.4667	0.7134	31.3802	0.0017	31.382
117.5	0.7107	31.3671	0.0004	31.3675

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
117.5333	0.7091	31.3802	0.0017	31.382
117.5667	0.7091	31.3802	0.003	31.3833
117.6	0.7061	31.3539	0.0017	31.3557
117.6333	0.7078	31.3539	0.0017	31.3557
117.6667	0.7041	31.3013	0.0017	31.3031
117.7	0.7032	31.2487	0.0004	31.2492
117.7333	0.7048	31.2356	0.0004	31.236
117.7667	0.7022	31.2619	0.0017	31.2636
117.8	0.7078	31.2356	0.0004	31.236
117.8333	0.7064	31.2093	0.0004	31.2097
117.8667	0.7087	31.2356	0.0017	31.2373
117.9	0.7107	31.2356	0.0004	31.236
117.9333	0.7104	31.2093	0.0004	31.2097
117.9667	0.7114	31.2093	0	31.2093
118	0.716	31.2224	0.0004	31.2229
118.0333	0.7157	31.2093	0.0017	31.211
118.0667	0.715	31.2487	0.0004	31.2492
118.1	0.716	31.2487	0.0004	31.2492
118.1333	0.7209	31.2224	0.0004	31.2229
118.1667	0.7209	31.2487	0.0004	31.2492
118.2	0.7183	31.2619	0.0004	31.2623
118.2333	0.7199	31.2487	0	31.2487
118.2667	0.7222	31.2619	0.0017	31.2636
118.3	0.7255	31.2619	0.0017	31.2636
118.3333	0.7252	31.2224	0.0017	31.2242
118.3667	0.7222	31.3145	0.0004	31.3149
118.4	0.7249	31.2093	0.0017	31.211
118.4333	0.7259	31.3013	0.0017	31.3031
118.4667	0.7242	31.3013	0.0004	31.3017
118.5	0.7226	31.2619	0.0017	31.2636
118.5333	0.7275	31.3539	0.0004	31.3543
118.5667	0.7272	31.3539	0.0004	31.3543
118.6	0.7285	31.3408	0.0004	31.3412
118.6333	0.7282	31.4065	0.0004	31.4069
118.6667	0.7292	31.3539	0	31.3539
118.7	0.7275	31.3013	0.0004	31.3017
118.7333	0.7262	31.3934	0	31.3934
118.7667	0.7278	31.3802	0.0004	31.3806
118.8	0.7285	31.3802	0.0004	31.3806
118.8333	0.7282	31.4065	0.0017	31.4083
118.8667	0.7278	31.4591	0.0004	31.4595
118.9	0.7301	31.4328	0	31.4328
118.9333	0.7269	31.446	0.0004	31.4464

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
118.9667	0.7295	31.4854	0.0004	31.4858
119	0.7278	31.4197	0.0004	31.4201
119.0333	0.7288	31.4328	0.0004	31.4332
119.0667	0.7308	31.4328	0	31.4328
119.1	0.7308	31.4591	0.0004	31.4595
119.1333	0.7295	31.5512	0	31.5512
119.1667	0.7301	31.4328	0.0004	31.4332
119.2	0.7275	31.4986	0.0004	31.499
119.2333	0.7311	31.5775	0	31.5775
119.2667	0.7315	31.5512	0.0004	31.5516
119.3	0.7318	31.4723	0.0004	31.4727
119.3333	0.7318	31.5512	0.0004	31.5516
119.3667	0.7301	31.5512	0.0004	31.5516
119.4	0.7318	31.538	0.0017	31.5398
119.4333	0.7305	31.5775	0.0017	31.5792
119.4667	0.7315	31.538	0.0004	31.5384
119.5	0.7328	31.5775	0.0004	31.5779
119.5333	0.7288	31.6038	0.0004	31.6042
119.5667	0.7288	31.6038	0.0017	31.6055
119.6	0.7275	31.5906	0.0017	31.5924
119.6333	0.7311	31.5117	0.0004	31.5121
119.6667	0.7311	31.6038	0.0017	31.6055
119.7	0.7334	31.6038	0.0004	31.6042
119.7333	0.7295	31.5906	0.0004	31.591
119.7667	0.7344	31.5512	0.0004	31.5516
119.8	0.7321	31.5643	0.0017	31.5661
119.8333	0.7308	31.5643	0.0017	31.5661
119.8667	0.7338	31.6038	0.0004	31.6042
119.9	0.7305	31.5906	0	31.5906
119.9333	0.7301	31.6038	0.0004	31.6042
119.9667	0.7351	31.6301	0.0004	31.6305
120	0.7298	31.6169	0.0004	31.6173
120.0333	0.7295	31.5643	0	31.5643
120.0667	0.7341	31.6169	0.0004	31.6173
120.1	0.7308	31.6432	0.0017	31.645
120.1333	0.7338	31.6301	0.0004	31.6305
120.1667	0.7315	31.6564	0	31.6564
120.2	0.7328	31.6301	0.0004	31.6305
120.2333	0.7334	31.6301	0.0004	31.6305
120.2667	0.7324	31.6301	0	31.6301
120.3	0.7331	31.6564	0.0004	31.6568
120.3333	0.7328	31.6301	0	31.6301
120.3667	0.7348	31.709	0.0004	31.7094

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
120.4	0.7341	31.709	0.0004	31.7094
120.4333	0.7318	31.709	0.0004	31.7094
120.4667	0.7324	31.6564	0.0017	31.6581
120.5	0.7338	31.709	0.0004	31.7094
120.5333	0.7282	31.709	0.0004	31.7094
120.5667	0.7292	31.7221	0.0004	31.7225
120.6	0.7265	31.5906	0	31.5906
120.6333	0.7295	31.6958	0.0004	31.6962
120.6667	0.7265	31.6564	0	31.6564
120.7	0.7252	31.6827	0.0004	31.6831
120.7333	0.7226	31.6827	0.0004	31.6831
120.7667	0.7249	31.6695	0.0004	31.6699
120.8	0.7203	31.6301	0.0004	31.6305
120.8333	0.7219	31.6564	0.0017	31.6581
120.8667	0.7209	31.6958	0	31.6958
120.9	0.7226	31.6695	0.0004	31.6699
120.9333	0.7186	31.6169	0.0004	31.6173
120.9667	0.717	31.5643	0	31.5643
121	0.7183	31.6038	0.0004	31.6042
121.0333	0.716	31.6169	0.0004	31.6173
121.0667	0.717	31.6301	0.0004	31.6305
121.1	0.7173	31.5906	0.0004	31.591
121.1333	0.7209	31.5906	0	31.5906
121.1667	0.7163	31.6169	0.0004	31.6173
121.2	0.7173	31.5643	0.0004	31.5647
121.2333	0.7153	31.6038	0	31.6038
121.2667	0.7173	31.6038	0.0004	31.6042
121.3	0.7157	31.6301	0.0004	31.6305
121.3333	0.713	31.5643	0.0004	31.5647
121.3667	0.7127	31.4986	0.0004	31.499
121.4	0.7143	31.5643	0.0004	31.5647
121.4333	0.7134	31.5775	0.0004	31.5779
121.4667	0.713	31.5117	0.0004	31.5121
121.5	0.7147	31.538	0.0004	31.5384
121.5333	0.7107	31.538	0.0017	31.5398
121.5667	0.7137	31.4854	0.0017	31.4872
121.6	0.7134	31.5249	0.0004	31.5253
121.6333	0.7127	31.446	0	31.446
121.6667	0.7111	31.4723	0.0004	31.4727
121.7	0.712	31.5249	0.003	31.5279
121.7333	0.7107	31.4591	0.0004	31.4595
121.7667	0.7091	31.446	0.0004	31.4464
121.8	0.7104	31.4723	0.0004	31.4727

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
121.8333	0.7117	31.4065	0.0004	31.4069
121.8667	0.7101	31.446	0.0004	31.4464
121.9	0.7107	31.4328	0.0017	31.4346
121.9333	0.7107	31.4328	0.0004	31.4332
121.9667	0.712	31.3539	0.0017	31.3557
122	0.7078	31.3802	0.0004	31.3806
122.0333	0.7041	31.3671	0.0017	31.3688
122.0667	0.7058	31.3539	0.0004	31.3543
122.1	0.7071	31.3276	0.0017	31.3294
122.1333	0.7058	31.3539	0	31.3539
122.1667	0.7028	31.446	0	31.446
122.2	0.7068	31.3408	0.0004	31.3412
122.2333	0.7045	31.3539	0	31.3539
122.2667	0.7038	31.3013	0.0017	31.3031
122.3	0.7045	31.2882	0.0004	31.2886
122.3333	0.7018	31.2356	0.0004	31.236
122.3667	0.7005	31.2882	0.003	31.2912
122.4	0.6992	31.2619	0.0004	31.2623
122.4333	0.6995	31.2487	0.0017	31.2505
122.4667	0.6985	31.2356	0.0017	31.2373
122.5	0.7009	31.2487	0.0004	31.2492
122.5333	0.7015	31.1435	0.0004	31.144
122.5667	0.6982	31.1961	0.0004	31.1966
122.6	0.6972	31.183	0.0004	31.1834
122.6333	0.6969	31.183	0.0004	31.1834
122.6667	0.6939	31.2093	0.0017	31.211
122.7	0.6956	31.2093	0.0017	31.211
122.7333	0.6936	31.0909	0.0004	31.0914
122.7667	0.6979	31.1041	0.0004	31.1045
122.8	0.6906	31.0909	0.0004	31.0914
122.8333	0.6962	31.0515	0.0004	31.0519
122.8667	0.6913	31.0383	0.0017	31.0401
122.9	0.6933	31.0778	0.0004	31.0782
122.9333	0.6976	31.0778	0.0017	31.0795
122.9667	0.6953	31.0909	0.0017	31.0927
123	0.6926	31.0252	0	31.0252
123.0333	0.6956	30.9726	0.0017	30.9743
123.0667	0.691	31.0515	0	31.0515
123.1	0.6943	31.0252	0.0004	31.0256
123.1333	0.6916	30.9857	0.0017	30.9875
123.1667	0.6962	30.9726	0.0017	30.9743
123.2	0.7012	30.9989	0.0017	31.0006
123.2333	0.7025	30.9726	0.0004	30.973



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
123.2667	0.7048	31.012	0.0017	31.0138
123.3	0.7084	30.9726	0	30.9726
123.3333	0.713	31.0252	0.0004	31.0256
123.3667	0.7097	31.0252	0.0017	31.0269
123.4	0.7107	31.0515	0.0017	31.0532
123.4333	0.716	31.0646	0	31.0646
123.4667	0.718	31.0252	0	31.0252
123.5	0.7176	31.0252	0.0004	31.0256
123.5333	0.7216	31.0646	0	31.0646
123.5667	0.7216	31.1172	0.0017	31.119
123.6	0.7219	31.0778	0.0004	31.0782
123.6333	0.7245	31.1172	0.0004	31.1177
123.6667	0.7209	31.1172	0	31.1172
123.7	0.7252	31.0909	0.0004	31.0914
123.7333	0.7252	31.2093	0	31.2093
123.7667	0.7278	31.2093	0	31.2093
123.8	0.7242	31.1698	0.0017	31.1716
123.8333	0.7301	31.1172	0.0017	31.119
123.8667	0.7311	31.2619	0.0004	31.2623
123.9	0.7305	31.2356	0.0004	31.236
123.9333	0.7301	31.2093	0.0004	31.2097
123.9667	0.7311	31.3145	0.003	31.3175
124	0.7308	31.275	0.0004	31.2755
124.0333	0.7328	31.2619	0.0017	31.2636
124.0667	0.7328	31.3013	0	31.3013
124.1	0.7334	31.2487	0.0004	31.2492
124.1333	0.7334	31.3145	0	31.3145
124.1667	0.7288	31.3802	0.0004	31.3806
124.2	0.7315	31.3539	0.0004	31.3543
124.2333	0.7292	31.3671	0.0004	31.3675
124.2667	0.7292	31.3671	0.0017	31.3688
124.3	0.7298	31.3802	0.0004	31.3806
124.3333	0.7301	31.3408	0	31.3408
124.3667	0.7269	31.3934	0.0004	31.3938
124.4	0.7275	31.3934	0.0017	31.3951
124.4333	0.7269	31.4591	0.0017	31.4609
124.4667	0.7288	31.4065	0.0004	31.4069
124.5	0.7262	31.446	0.0017	31.4477
124.5333	0.7292	31.3802	0.0017	31.382
124.5667	0.7269	31.3934	0.0017	31.3951
124.6	0.7242	31.4986	0.0004	31.499
124.6333	0.7269	31.3671	0.0004	31.3675
124.6667	0.7245	31.446	0.003	31.449

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
124.7	0.7262	31.446	0.0004	31.4464
124.7333	0.7265	31.4854	0	31.4854
124.7667	0.7245	31.4591	0.0017	31.4609
124.8	0.7245	31.4197	0.0004	31.4201
124.8333	0.7236	31.4065	0.0017	31.4083
124.8667	0.7269	31.4591	0.0004	31.4595
124.9	0.7229	31.4591	0.0004	31.4595
124.9333	0.7242	31.4591	0.0017	31.4609
124.9667	0.7272	31.4591	0	31.4591
125	0.7275	31.4065	0.0017	31.4083
125.0333	0.7255	31.4723	0.0004	31.4727
125.0667	0.7278	31.4986	0.0017	31.5003
125.1	0.7239	31.4723	0	31.4723
125.1333	0.7222	31.4328	0.0017	31.4346
125.1667	0.7249	31.4723	0.0004	31.4727
125.2	0.7278	31.4854	0.0004	31.4858
125.2333	0.7232	31.4854	0.0004	31.4858
125.2667	0.7245	31.4723	0.0017	31.474
125.3	0.7262	31.4854	0.0004	31.4858
125.3333	0.7249	31.4723	0	31.4723
125.3667	0.7236	31.4591	0.0004	31.4595
125.4	0.7272	31.4328	0.0004	31.4332
125.4333	0.7282	31.4723	0.0004	31.4727
125.4667	0.7245	31.5512	0.0004	31.5516
125.5	0.7249	31.5249	0.0017	31.5266
125.5333	0.7265	31.4854	0.0017	31.4872
125.5667	0.7259	31.3671	0.0017	31.3688
125.6	0.7249	31.5249	0	31.5249
125.6333	0.7269	31.4986	0	31.4986
125.6667	0.7252	31.4328	0.0004	31.4332
125.7	0.7249	31.5249	0.0017	31.5266
125.7333	0.7245	31.446	0.0017	31.4477
125.7667	0.7262	31.538	0.0017	31.5398
125.8	0.7245	31.4591	0.0004	31.4595
125.8333	0.7275	31.5512	0.0004	31.5516
125.8667	0.7249	31.446	0.0004	31.4464
125.9	0.7242	31.5117	0.0017	31.5135
125.9333	0.7259	31.5249	0	31.5249
125.9667	0.7226	31.4986	0	31.4986
126	0.7265	31.4723	0.0017	31.474
126.0333	0.7249	31.5117	0.0004	31.5121
126.0667	0.7239	31.4986	0.0004	31.499
126.1	0.7219	31.4328	0.0004	31.4332

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
126.1333	0.7226	31.4065	0.0017	31.4083
126.1667	0.7245	31.5512	0.0004	31.5516
126.2	0.7252	31.5117	0.0004	31.5121
126.2333	0.7259	31.4986	0	31.4986
126.2667	0.7226	31.5249	0	31.5249
126.3	0.7255	31.5249	0	31.5249
126.3333	0.7252	31.446	0.0004	31.4464
126.3667	0.7236	31.5643	0.0004	31.5647
126.4	0.7206	31.4197	0	31.4197
126.4333	0.7262	31.4986	0	31.4986
126.4667	0.7232	31.538	0.0017	31.5398
126.5	0.7229	31.4986	0.0004	31.499
126.5333	0.7239	31.5249	0.0017	31.5266
126.5667	0.7222	31.4723	0.0017	31.474
126.6	0.7213	31.5117	0	31.5117
126.6333	0.7249	31.4854	0.0004	31.4858
126.6667	0.7236	31.4854	0.0004	31.4858
126.7	0.7226	31.4986	0.0004	31.499
126.7333	0.7226	31.4854	0.0004	31.4858
126.7667	0.7249	31.446	0.0004	31.4464
126.8	0.7242	31.5249	0	31.5249
126.8333	0.7232	31.5512	0.0004	31.5516
126.8667	0.7262	31.4723	0.0004	31.4727
126.9	0.7252	31.4986	0.0004	31.499
126.9333	0.7229	31.4723	0.0004	31.4727
126.9667	0.7239	31.5512	0.0017	31.5529
127	0.7229	31.5249	0.0004	31.5253
127.0333	0.7209	31.4986	0.0017	31.5003
127.0667	0.7278	31.4854	0.0017	31.4872
127.1	0.7252	31.4986	0.003	31.5016
127.1333	0.7252	31.5117	0.0004	31.5121
127.1667	0.7242	31.4591	0.0017	31.4609
127.2	0.7239	31.446	0.0017	31.4477
127.2333	0.7236	31.4986	0	31.4986
127.2667	0.7219	31.4854	0.0004	31.4858
127.3	0.7236	31.538	0.0017	31.5398
127.3333	0.7242	31.4328	0.0004	31.4332
127.3667	0.7236	31.4591	0	31.4591
127.4	0.7226	31.5249	0	31.5249
127.4333	0.7239	31.5775	0.0004	31.5779
127.4667	0.7249	31.4986	0.0004	31.499
127.5	0.7259	31.4986	0.0004	31.499
127.5333	0.7242	31.4986	0	31.4986

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
127.5667	0.7265	31.5643	0.0004	31.5647
127.6	0.7252	31.4986	0.0004	31.499
127.6333	0.7236	31.5117	0.0004	31.5121
127.6667	0.7239	31.5117	0.0017	31.5135
127.7	0.7245	31.4723	0.0004	31.4727
127.7333	0.7252	31.5775	0.0004	31.5779
127.7667	0.7206	31.538	0.0004	31.5384
127.8	0.7229	31.5249	0	31.5249
127.8333	0.7249	31.4986	0.0004	31.499
127.8667	0.7232	31.5117	0.0004	31.5121
127.9	0.7232	31.5117	0	31.5117
127.9333	0.7226	31.5512	0.0004	31.5516
127.9667	0.7242	31.5117	0.0004	31.5121
128	0.7226	31.5117	0.0004	31.5121
128.0333	0.7236	31.538	0.0017	31.5398
128.0667	0.7236	31.5512	0.0004	31.5516
128.1	0.7255	31.4986	0	31.4986
128.1333	0.7255	31.4723	0.0004	31.4727
128.1667	0.7232	31.4854	0.0004	31.4858
128.2	0.7239	31.4328	0.0017	31.4346
128.2333	0.7249	31.5512	0	31.5512
128.2667	0.7239	31.4854	0.003	31.4885
128.3	0.7229	31.4854	0.0004	31.4858
128.3333	0.7236	31.4591	0.0004	31.4595
128.3667	0.7222	31.4723	0.0017	31.474
128.4	0.7278	31.538	0	31.538
128.4333	0.7232	31.4986	0	31.4986
128.4667	0.7245	31.446	0.0004	31.4464
128.5	0.7242	31.4986	0.0017	31.5003
128.5333	0.7236	31.4328	0.0004	31.4332
128.5667	0.7229	31.538	0.0004	31.5384
128.6	0.7216	31.538	0.0017	31.5398
128.6333	0.7222	31.4986	0.0004	31.499
128.6667	0.7222	31.4723	0	31.4723
128.7	0.7249	31.5512	0.0017	31.5529
128.7333	0.7222	31.4723	0.0004	31.4727
128.7667	0.7242	31.4854	0.0004	31.4858
128.8	0.7222	31.5117	0.0004	31.5121
128.8333	0.7219	31.4854	0.0004	31.4858
128.8667	0.7226	31.4591	0.0004	31.4595
128.9	0.7219	31.4986	0.0017	31.5003
128.9333	0.7249	31.5117	0.0004	31.5121
128.9667	0.7236	31.4723	0.0004	31.4727

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
129	0.7232	31.446	0.0004	31.4464
129.0333	0.7239	31.446	0.0004	31.4464
129.0667	0.7242	31.4854	0.0004	31.4858
129.1	0.7229	31.4986	0.0004	31.499
129.1333	0.7219	31.5249	0.0004	31.5253
129.1667	0.7245	31.5117	0.0017	31.5135
129.2	0.7242	31.4854	0.0004	31.4858
129.2333	0.7239	31.446	0.0004	31.4464
129.2667	0.7252	31.4723	0.0004	31.4727
129.3	0.7222	31.4328	0.0017	31.4346
129.3333	0.7232	31.4854	0.0017	31.4872
129.3667	0.7239	31.446	0.0017	31.4477
129.4	0.7232	31.5117	0	31.5117
129.4333	0.7242	31.4591	0.0017	31.4609
129.4667	0.7252	31.5117	0.0004	31.5121
129.5	0.7245	31.446	0.0017	31.4477
129.5333	0.7239	31.4854	0.0004	31.4858
129.5667	0.7245	31.446	0.0004	31.4464
129.6	0.7245	31.4854	0.0017	31.4872
129.6333	0.7219	31.5643	0.0004	31.5647
129.6667	0.7236	31.5643	0.0017	31.5661
129.7	0.7219	31.4591	0.0004	31.4595
129.7333	0.7219	31.4723	0.0004	31.4727
129.7667	0.7213	31.4986	0.0017	31.5003
129.8	0.7222	31.4197	0.003	31.4227
129.8333	0.7242	31.446	0.0004	31.4464
129.8667	0.7222	31.4986	0.0004	31.499
129.9	0.7216	31.4723	0.0004	31.4727
129.9333	0.7239	31.5249	0.0004	31.5253
129.9667	0.7236	31.4986	0.0017	31.5003
130	0.7236	31.5117	0.0004	31.5121
130.0333	0.7236	31.446	0	31.446
130.0667	0.7232	31.5512	0	31.5512
130.1	0.7229	31.5249	0	31.5249
130.1333	0.7226	31.4723	0.0004	31.4727
130.1667	0.7236	31.4723	0	31.4723
130.2	0.7265	31.5117	0.0004	31.5121
130.2333	0.7242	31.446	0	31.446
130.2667	0.7259	31.446	0.0004	31.4464
130.3	0.7242	31.4986	0.0017	31.5003
130.3333	0.7262	31.3934	0.0017	31.3951
130.3667	0.7206	31.4197	0.0004	31.4201
130.4	0.7219	31.4723	0.0004	31.4727

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
130.4333	0.7239	31.4723	0.0004	31.4727
130.4667	0.7229	31.4723	0	31.4723
130.5	0.7232	31.4723	0.0004	31.4727
130.5333	0.7245	31.4854	0.0017	31.4872
130.5667	0.7216	31.4986	0.0004	31.499
130.6	0.7252	31.3671	0.0017	31.3688
130.6333	0.7209	31.4197	0.0017	31.4214
130.6667	0.7222	31.4723	0.0017	31.474
130.7	0.7209	31.5117	0.0004	31.5121
130.7333	0.7219	31.4854	0	31.4854
130.7667	0.7249	31.4591	0.0004	31.4595
130.8	0.7242	31.5249	0.0004	31.5253
130.8333	0.7222	31.4986	0.0017	31.5003
130.8667	0.7245	31.4986	0.0004	31.499
130.9	0.7229	31.4854	0.0004	31.4858
130.9333	0.7252	31.5117	0.0017	31.5135
130.9667	0.7236	31.4591	0.0004	31.4595
131	0.7255	31.4723	0.0004	31.4727
131.0333	0.7265	31.4986	0.0017	31.5003
131.0667	0.7219	31.5117	0.0004	31.5121
131.1	0.7203	31.4197	0	31.4197
131.1333	0.7249	31.4723	0	31.4723
131.1667	0.7259	31.4723	0.0004	31.4727
131.2	0.7203	31.4854	0.0017	31.4872
131.2333	0.7226	31.4197	0.0004	31.4201
131.2667	0.7222	31.446	0.0004	31.4464
131.3	0.7219	31.4065	0.0004	31.4069
131.3333	0.7236	31.4723	0.0004	31.4727
131.3667	0.7219	31.4854	0.0017	31.4872
131.4	0.7226	31.4854	0	31.4854
131.4333	0.7209	31.4328	0.0017	31.4346
131.4667	0.7216	31.4591	0.0004	31.4595
131.5	0.7239	31.4854	0.0004	31.4858
131.5333	0.7239	31.4723	0	31.4723
131.5667	0.7229	31.4328	0.0004	31.4332
131.6	0.7249	31.5117	0.0004	31.5121
131.6333	0.7239	31.4854	0.003	31.4885
131.6667	0.7219	31.4197	0	31.4197
131.7	0.7213	31.4065	0.0017	31.4083
131.7333	0.7232	31.4723	0.0004	31.4727
131.7667	0.7245	31.446	0.0004	31.4464
131.8	0.7229	31.446	0.0004	31.4464
131.8333	0.7252	31.4986	0.0004	31.499

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
131.8667	0.7193	31.3934	0.0004	31.3938
131.9	0.7186	31.4197	0.0004	31.4201
131.9333	0.7229	31.4197	0.0004	31.4201
131.9667	0.7239	31.4197	0.0017	31.4214
132	0.7239	31.4065	0.0004	31.4069
132.0333	0.7236	31.4065	0.0004	31.4069
132.0667	0.7226	31.3934	0.0004	31.3938
132.1	0.7259	31.4591	0	31.4591
132.1333	0.7219	31.446	0	31.446
132.1667	0.7262	31.4591	0.0004	31.4595
132.2	0.7249	31.4328	0.0017	31.4346
132.2333	0.7222	31.4591	0.0004	31.4595
132.2667	0.7222	31.4591	0	31.4591
132.3	0.7222	31.4854	0	31.4854
132.3333	0.7242	31.4065	0.0017	31.4083
132.3667	0.7216	31.4065	0.0004	31.4069
132.4	0.7232	31.4591	0	31.4591
132.4333	0.7196	31.4328	0.0004	31.4332
132.4667	0.7236	31.4197	0.0017	31.4214
132.5	0.7209	31.446	0.0004	31.4464
132.5333	0.7242	31.446	0.0004	31.4464
132.5667	0.7252	31.4591	0.0004	31.4595
132.6	0.7199	31.446	0	31.446
132.6333	0.7236	31.3671	0.0004	31.3675
132.6667	0.7216	31.4986	0.0017	31.5003
132.7	0.7226	31.4591	0.0017	31.4609
132.7333	0.7239	31.4065	0	31.4065
132.7667	0.7199	31.4328	0.0004	31.4332
132.8	0.7232	31.3934	0.0017	31.3951
132.8333	0.7229	31.4854	0.0004	31.4858
132.8667	0.7232	31.4328	0.0004	31.4332
132.9	0.7226	31.4986	0.0004	31.499
132.9333	0.7236	31.4197	0.0004	31.4201
132.9667	0.7196	31.4197	0.0004	31.4201
133	0.7236	31.4065	0.0017	31.4083
133.0333	0.7229	31.4591	0.0004	31.4595
133.0667	0.7232	31.4197	0.0017	31.4214
133.1	0.7239	31.4854	0.0017	31.4872
133.1333	0.7249	31.4591	0	31.4591
133.1667	0.7269	31.4328	0.0004	31.4332
133.2	0.7222	31.3408	0.0004	31.3412
133.2333	0.7236	31.3934	0.0017	31.3951
133.2667	0.7239	31.3934	0	31.3934

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
133.3	0.7216	31.4854	0.0004	31.4858
133.3333	0.7242	31.4328	0.0017	31.4346
133.3667	0.7236	31.4591	0.0004	31.4595
133.4	0.7239	31.4591	0.0017	31.4609
133.4333	0.7199	31.4591	0.0004	31.4595
133.4667	0.7226	31.3934	0	31.3934
133.5	0.7239	31.446	0.0004	31.4464
133.5333	0.7216	31.4328	0.0017	31.4346
133.5667	0.7232	31.4854	0.0017	31.4872
133.6	0.7236	31.4328	0.0017	31.4346
133.6333	0.7236	31.4591	0.0004	31.4595
133.6667	0.7226	31.446	0.0004	31.4464
133.7	0.7199	31.4197	0	31.4197
133.7333	0.7236	31.4328	0	31.4328
133.7667	0.7239	31.4197	0.003	31.4227
133.8	0.7236	31.4328	0.0004	31.4332
133.8333	0.7219	31.4197	0	31.4197
133.8667	0.7203	31.3934	0.0017	31.3951
133.9	0.7229	31.3934	0	31.3934
133.9333	0.7219	31.446	0	31.446
133.9667	0.7239	31.3145	0	31.3145
134	0.7209	31.3671	0.0004	31.3675
134.0333	0.7219	31.4591	0.0004	31.4595
134.0667	0.7203	31.4065	0.0004	31.4069
134.1	0.7183	31.4328	0.0004	31.4332
134.1333	0.7222	31.446	0.0004	31.4464
134.1667	0.7213	31.4854	0.0004	31.4858
134.2	0.7249	31.4065	0.0017	31.4083
134.2333	0.7245	31.446	0	31.446
134.2667	0.7213	31.3934	0.0004	31.3938
134.3	0.7226	31.4065	0.0017	31.4083
134.3333	0.7213	31.4723	0.0004	31.4727
134.3667	0.7216	31.4854	0.0017	31.4872
134.4	0.7219	31.4065	0	31.4065
134.4333	0.7209	31.3408	0.0017	31.3425
134.4667	0.7255	31.4197	0.0004	31.4201
134.5	0.7203	31.446	0.0004	31.4464
134.5333	0.7226	31.446	0.0004	31.4464
134.5667	0.7232	31.3408	0.0004	31.3412
134.6	0.7222	31.446	0.0004	31.4464
134.6333	0.7213	31.4065	0	31.4065
134.6667	0.7229	31.3934	0.0004	31.3938
134.7	0.7222	31.4065	0.0004	31.4069



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
134.7333	0.7222	31.5117	0.0017	31.5135
134.7667	0.7219	31.4065	0.003	31.4096
134.8	0.7193	31.446	0	31.446
134.8333	0.7209	31.3802	0.0017	31.382
134.8667	0.7229	31.3671	0.0017	31.3688
134.9	0.7232	31.3671	0.0017	31.3688
134.9333	0.7242	31.4854	0.0004	31.4858
134.9667	0.7213	31.4197	0.0017	31.4214
135	0.7229	31.4591	0.0017	31.4609
135.0333	0.7236	31.4591	0.0004	31.4595
135.0667	0.7206	31.4197	0	31.4197
135.1	0.7229	31.4591	0.0017	31.4609
135.1333	0.7229	31.3934	0.0004	31.3938
135.1667	0.7242	31.446	0.0004	31.4464
135.2	0.7232	31.4197	0.0004	31.4201
135.2333	0.7245	31.4854	0.0004	31.4858
135.2667	0.7213	31.4065	0	31.4065
135.3	0.7236	31.446	0.0004	31.4464
135.3333	0.7232	31.3934	0.0017	31.3951
135.3667	0.7206	31.3671	0.0017	31.3688
135.4	0.7196	31.3802	0.0004	31.3806
135.4333	0.7203	31.4591	0.0004	31.4595
135.4667	0.7259	31.3934	0.0004	31.3938
135.5	0.7222	31.3802	0.0004	31.3806
135.5333	0.7249	31.4065	0.0004	31.4069
135.5667	0.7222	31.4065	0.003	31.4096
135.6	0.7219	31.4328	0.0004	31.4332
135.6333	0.7209	31.4328	0.0004	31.4332
135.6667	0.7206	31.4065	0.0004	31.4069
135.7	0.7203	31.4854	0.0017	31.4872
135.7333	0.7226	31.446	0	31.446
135.7667	0.7209	31.4065	0	31.4065
135.8	0.7226	31.3408	0	31.3408
135.8333	0.7229	31.3671	0.0004	31.3675
135.8667	0.7226	31.446	0.0004	31.4464
135.9	0.7232	31.4328	0.0004	31.4332
135.9333	0.7216	31.3934	0.0017	31.3951
135.9667	0.7222	31.3671	0	31.3671
136	0.7229	31.4197	0.0004	31.4201
136.0333	0.7236	31.3934	0.0004	31.3938
136.0667	0.7199	31.3539	0	31.3539
136.1	0.7209	31.3276	0	31.3276
136.1333	0.7222	31.3408	0.0004	31.3412

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
136.1667	0.7203	31.4197	0.0004	31.4201
136.2	0.7216	31.3408	0.0004	31.3412
136.2333	0.7245	31.4197	0.0004	31.4201
136.2667	0.7236	31.3408	0.0017	31.3425
136.3	0.7213	31.3276	0.0017	31.3294
136.3333	0.7216	31.4065	0.0017	31.4083
136.3667	0.7232	31.4197	0.0017	31.4214
136.4	0.7219	31.4723	0	31.4723
136.4333	0.7236	31.3408	0	31.3408
136.4667	0.7216	31.3539	0.0017	31.3557
136.5	0.7229	31.3802	0	31.3802
136.5333	0.7239	31.3671	0.0004	31.3675
136.5667	0.7209	31.4591	0	31.4591
136.6	0.7239	31.3934	0	31.3934
136.6333	0.7232	31.3934	0.0004	31.3938
136.6667	0.7216	31.3802	0.0004	31.3806
136.7	0.7222	31.3408	0.0017	31.3425
136.7333	0.7203	31.4065	0.0004	31.4069
136.7667	0.7255	31.3934	0.0004	31.3938
136.8	0.7213	31.446	0.0017	31.4477
136.8333	0.7222	31.3802	0	31.3802
136.8667	0.7239	31.4328	0	31.4328
136.9	0.7222	31.4065	0.0004	31.4069
136.9333	0.7219	31.446	0.0004	31.4464
136.9667	0.7236	31.3671	0.0004	31.3675
137	0.7239	31.3671	0.0004	31.3675
137.0333	0.7219	31.3802	0	31.3802
137.0667	0.7219	31.4197	0	31.4197
137.1	0.7219	31.3671	0.0004	31.3675
137.1333	0.7252	31.4197	0.0017	31.4214
137.1667	0.7222	31.3671	0.0017	31.3688
137.2	0.7242	31.3671	0	31.3671
137.2333	0.7196	31.3934	0.0004	31.3938
137.2667	0.7199	31.4197	0.0004	31.4201
137.3	0.7232	31.4328	0.0004	31.4332
137.3333	0.7213	31.3802	0.0004	31.3806
137.3667	0.7232	31.3802	0.0017	31.382
137.4	0.7229	31.4197	0.0017	31.4214
137.4333	0.7213	31.3802	0	31.3802
137.4667	0.7203	31.3802	0.0004	31.3806
137.5	0.7203	31.3276	0	31.3276
137.5333	0.7229	31.4065	0.0004	31.4069
137.5667	0.7226	31.4065	0.0004	31.4069

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
137.6	0.7242	31.3934	0	31.3934
137.6333	0.7232	31.4328	0	31.4328
137.6667	0.7219	31.3539	0.0004	31.3543
137.7	0.7199	31.4197	0.0017	31.4214
137.7333	0.7206	31.3934	0	31.3934
137.7667	0.7213	31.4197	0.0004	31.4201
137.8	0.7193	31.3276	0.003	31.3307
137.8333	0.7209	31.3671	0.0004	31.3675
137.8667	0.7239	31.4197	0.0004	31.4201
137.9	0.7196	31.3934	0.003	31.3964
137.9333	0.7206	31.3934	0.0004	31.3938
137.9667	0.7249	31.3013	0.0004	31.3017
138	0.7216	31.4065	0.003	31.4096
138.0333	0.7213	31.3802	0.0004	31.3806
138.0667	0.7222	31.4065	0.0004	31.4069
138.1	0.7196	31.2882	0	31.2882
138.1333	0.7242	31.3145	0.0017	31.3162
138.1667	0.7236	31.3671	0	31.3671
138.2	0.7196	31.4065	0.0017	31.4083
138.2333	0.7229	31.3802	0.0004	31.3806
138.2667	0.7222	31.3802	0	31.3802
138.3	0.7236	31.3539	0.0017	31.3557
138.3333	0.7219	31.4065	0.0017	31.4083
138.3667	0.7216	31.3802	0.0004	31.3806
138.4	0.7229	31.3802	0.0004	31.3806
138.4333	0.7196	31.3802	0.0017	31.382
138.4667	0.7226	31.3802	0.0004	31.3806
138.5	0.7232	31.3802	0.0017	31.382
138.5333	0.7209	31.3276	0.0017	31.3294
138.5667	0.7206	31.4197	0.0004	31.4201
138.6	0.7203	31.3802	0.0017	31.382
138.6333	0.7245	31.3934	0.0004	31.3938
138.6667	0.7209	31.3145	0.0017	31.3162
138.7	0.7229	31.3671	0.0004	31.3675
138.7333	0.7219	31.3802	0.0017	31.382
138.7667	0.7229	31.4328	0.0017	31.4346
138.8	0.7213	31.3671	0.0017	31.3688
138.8333	0.7229	31.3539	0.0017	31.3557
138.8667	0.7176	31.3934	0.0004	31.3938
138.9	0.7229	31.3671	0.0004	31.3675
138.9333	0.7216	31.3671	0.0004	31.3675
138.9667	0.7199	31.4065	0	31.4065
139	0.7239	31.3934	0.0017	31.3951

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
139.0333	0.7222	31.3934	0.0017	31.3951
139.0667	0.7259	31.2619	0.0004	31.2623
139.1	0.7206	31.3802	0	31.3802
139.1333	0.7199	31.3408	0.0017	31.3425
139.1667	0.7242	31.3408	0.0017	31.3425
139.2	0.7213	31.3408	0.0017	31.3425
139.2333	0.7236	31.4065	0.0004	31.4069
139.2667	0.7226	31.3671	0	31.3671
139.3	0.7219	31.3013	0.003	31.3044
139.3333	0.7222	31.3276	0.0004	31.328
139.3667	0.7222	31.3539	0.0004	31.3543
139.4	0.7252	31.2487	0.0004	31.2492
139.4333	0.7219	31.3539	0	31.3539
139.4667	0.7219	31.3013	0	31.3013
139.5	0.7232	31.3671	0	31.3671
139.5333	0.7232	31.3276	0.0004	31.328
139.5667	0.7236	31.3802	0.0004	31.3806
139.6	0.7226	31.3802	0	31.3802
139.6333	0.7236	31.3013	0.0004	31.3017
139.6667	0.7229	31.4065	0.0004	31.4069
139.7	0.7236	31.3539	0.0004	31.3543
139.7333	0.7203	31.3408	0	31.3408
139.7667	0.7219	31.4328	0.0004	31.4332
139.8	0.7209	31.3408	0	31.3408
139.8333	0.719	31.3671	0.0004	31.3675
139.8667	0.7219	31.3934	0.0004	31.3938
139.9	0.7232	31.3539	0.0004	31.3543
139.9333	0.7219	31.3145	0.0004	31.3149
139.9667	0.7206	31.2882	0.0017	31.2899
140	0.7222	31.3671	0.0004	31.3675
140.0333	0.7232	31.3013	0.0017	31.3031
140.0667	0.7216	31.3539	0.003	31.357
140.1	0.7245	31.3408	0.0004	31.3412
140.1333	0.7242	31.3408	0.0004	31.3412
140.1667	0.7199	31.3276	0.0004	31.328
140.2	0.7222	31.4328	0	31.4328
140.2333	0.7226	31.3539	0.0004	31.3543
140.2667	0.7239	31.4065	0.0004	31.4069
140.3	0.719	31.3539	0.0004	31.3543
140.3333	0.7196	31.3934	0.0004	31.3938
140.3667	0.7232	31.3408	0.0004	31.3412
140.4	0.7242	31.3671	0.0004	31.3675
140.4333	0.7226	31.3408	0.0004	31.3412

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
140.4667	0.7232	31.3802	0.0004	31.3806
140.5	0.7236	31.3934	0.0004	31.3938
140.5333	0.7219	31.3013	0.0004	31.3017
140.5667	0.7239	31.3934	0.0004	31.3938
140.6	0.7199	31.3145	0.0004	31.3149
140.6333	0.7236	31.3276	0.0017	31.3294
140.6667	0.7199	31.4065	0.0017	31.4083
140.7	0.7219	31.3013	0	31.3013
140.7333	0.7226	31.3539	0	31.3539
140.7667	0.7196	31.3276	0	31.3276
140.8	0.7232	31.3276	0.0017	31.3294
140.8333	0.7213	31.3276	0.0004	31.328
140.8667	0.7173	31.3408	0.0017	31.3425
140.9	0.7222	31.3671	0.0004	31.3675
140.9333	0.7213	31.3671	0	31.3671
140.9667	0.7219	31.3276	0	31.3276
141	0.7232	31.3408	0.0004	31.3412
141.0333	0.7226	31.3539	0.0004	31.3543
141.0667	0.7236	31.3802	0.0004	31.3806
141.1	0.7199	31.2882	0.0004	31.2886
141.1333	0.7216	31.3539	0.0017	31.3557
141.1667	0.7199	31.3934	0.0004	31.3938
141.2	0.7242	31.3145	0	31.3145
141.2333	0.7209	31.3276	0.0017	31.3294
141.2667	0.7236	31.2882	0.0004	31.2886
141.3	0.7239	31.3408	0.0017	31.3425
141.3333	0.7219	31.3408	0.0004	31.3412
141.3667	0.7239	31.3539	0.0004	31.3543
141.4	0.7199	31.3671	0.0004	31.3675
141.4333	0.7236	31.3408	0	31.3408
141.4667	0.7222	31.3013	0.0017	31.3031
141.5	0.7222	31.3539	0.0017	31.3557
141.5333	0.7226	31.3145	0.0004	31.3149
141.5667	0.7229	31.4065	0.0004	31.4069
141.6	0.7236	31.3539	0.0004	31.3543
141.6333	0.7209	31.3276	0.0017	31.3294
141.6667	0.7186	31.3802	0.0004	31.3806
141.7	0.7236	31.3802	0.0017	31.382
141.7333	0.7209	31.3013	0.0004	31.3017
141.7667	0.7242	31.3934	0.0004	31.3938
141.8	0.7239	31.3276	0.0004	31.328
141.8333	0.7209	31.3802	0	31.3802
141.8667	0.7229	31.3408	0.0004	31.3412

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
141.9	0.7203	31.3539	0.0004	31.3543
141.9333	0.7236	31.4065	0.0004	31.4069
141.9667	0.7203	31.3145	0.0017	31.3162
142	0.7216	31.3671	0.0004	31.3675
142.0333	0.7219	31.2882	0.0017	31.2899
142.0667	0.7213	31.3013	0.0017	31.3031
142.1	0.7229	31.3539	0.0004	31.3543
142.1333	0.7229	31.3408	0	31.3408
142.1667	0.7219	31.3802	0.0017	31.382
142.2	0.7206	31.3276	0.0017	31.3294
142.2333	0.7219	31.3408	0.0004	31.3412
142.2667	0.7222	31.3145	0.0017	31.3162
142.3	0.7229	31.3934	0.0017	31.3951
142.3333	0.7239	31.3145	0.0004	31.3149
142.3667	0.7236	31.3408	0	31.3408
142.4	0.7232	31.3408	0.0004	31.3412
142.4333	0.7245	31.3539	0.0004	31.3543
142.4667	0.7222	31.2882	0.0017	31.2899
142.5	0.7216	31.275	0.0017	31.2768
142.5333	0.7213	31.3276	0.0004	31.328
142.5667	0.7249	31.3802	0.0004	31.3806
142.6	0.7222	31.2882	0.0017	31.2899
142.6333	0.7216	31.3934	0.0017	31.3951
142.6667	0.7236	31.3408	0.0017	31.3425
142.7	0.7199	31.3013	0.0004	31.3017
142.7333	0.7193	31.3408	0	31.3408
142.7667	0.7209	31.275	0.0004	31.2755
142.8	0.7222	31.3408	0.0004	31.3412
142.8333	0.7222	31.3539	0	31.3539
142.8667	0.7226	31.3408	0.0004	31.3412
142.9	0.7229	31.3013	0.0017	31.3031
142.9333	0.7222	31.3276	0.0004	31.328
142.9667	0.7216	31.3802	0	31.3802
143	0.7249	31.3539	0.0004	31.3543
143.0333	0.7203	31.3013	0.0004	31.3017
143.0667	0.7209	31.3145	0.0017	31.3162
143.1	0.7226	31.3276	0.0017	31.3294
143.1333	0.7206	31.275	0.0004	31.2755
143.1667	0.7209	31.3276	0.0004	31.328
143.2	0.7242	31.3934	0	31.3934
143.2333	0.7213	31.3276	0.0017	31.3294
143.2667	0.7226	31.3013	0.0017	31.3031
143.3	0.7193	31.3934	0	31.3934

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
143.3333	0.7203	31.4197	0.0004	31.4201
143.3667	0.7186	31.3671	0.0003	31.3701
143.4	0.7199	31.3408	0.0004	31.3412
143.4333	0.7229	31.3276	0.0004	31.328
143.4667	0.7236	31.2619	0.0017	31.2636
143.5	0.7229	31.3408	0.0004	31.3412
143.5333	0.7229	31.2882	0.0004	31.2886
143.5667	0.7203	31.3276	0	31.3276
143.6	0.7199	31.3539	0.0004	31.3543
143.6333	0.7213	31.3145	0.0017	31.3162
143.6667	0.7239	31.3408	0.0003	31.3438
143.7	0.7196	31.2619	0.0017	31.2636
143.7333	0.719	31.3013	0.0017	31.3031
143.7667	0.7229	31.3013	0.0017	31.3031
143.8	0.7239	31.3408	0.0004	31.3412
143.8333	0.7203	31.3671	0.0017	31.3688
143.8667	0.7196	31.2882	0.0004	31.2886
143.9	0.7226	31.3276	0.0004	31.328
143.9333	0.7226	31.3408	0.0004	31.3412
143.9667	0.7209	31.275	0.0003	31.2781
144	0.7249	31.3276	0.0004	31.328
144.0333	0.7209	31.3408	0	31.3408
144.0667	0.7206	31.2619	0	31.2619
144.1	0.7229	31.3671	0.0004	31.3675
144.1333	0.7209	31.3013	0	31.3013
144.1667	0.7209	31.2487	0.0004	31.2492
144.2	0.7222	31.3013	0.0017	31.3031
144.2333	0.7229	31.3145	0.0004	31.3149
144.2667	0.7213	31.3408	0.0017	31.3425
144.3	0.7226	31.3013	0.0004	31.3017
144.3333	0.7206	31.3671	0.0017	31.3688
144.3667	0.718	31.3013	0	31.3013
144.4	0.7236	31.3539	0.0004	31.3543
144.4333	0.7236	31.2882	0.0004	31.2886
144.4667	0.7242	31.3145	0.0004	31.3149
144.5	0.7232	31.3145	0.0004	31.3149
144.5333	0.7219	31.2619	0.0017	31.2636
144.5667	0.7183	31.275	0.0004	31.2755
144.6	0.719	31.3013	0.0017	31.3031
144.6333	0.7236	31.3013	0.0004	31.3017
144.6667	0.7203	31.3145	0	31.3145
144.7	0.7203	31.3013	0.0004	31.3017
144.7333	0.7226	31.3539	0.0004	31.3543

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
144.7667	0.7216	31.3145	0.0004	31.3149
144.8	0.7219	31.2487	0	31.2487
144.8333	0.7249	31.3145	0.0017	31.3162
144.8667	0.7236	31.2882	0.0004	31.2886
144.9	0.7249	31.2882	0.0004	31.2886
144.9333	0.7226	31.3671	0.0017	31.3688
144.9667	0.7206	31.3408	0.0017	31.3425
145	0.7229	31.3013	0.0004	31.3017
145.0333	0.7216	31.3671	0	31.3671
145.0667	0.7222	31.3671	0.0017	31.3688
145.1	0.7226	31.3671	0	31.3671
145.1333	0.7206	31.275	0.0004	31.2755
145.1667	0.7213	31.2619	0.0017	31.2636
145.2	0.7216	31.3013	0.0004	31.3017
145.2333	0.7226	31.2487	0.0004	31.2492
145.2667	0.7213	31.3013	0	31.3013
145.3	0.7226	31.3013	0	31.3013
145.3333	0.7206	31.3408	0.0004	31.3412
145.3667	0.7209	31.3408	0.0004	31.3412
145.4	0.7222	31.2487	0.0017	31.2505
145.4333	0.7203	31.3013	0.0004	31.3017
145.4667	0.7242	31.3145	0	31.3145
145.5	0.7193	31.3408	0.0004	31.3412
145.5333	0.7203	31.3145	0	31.3145
145.5667	0.7229	31.2487	0.0004	31.2492
145.6	0.7292	31.3408	0.0004	31.3412
145.6333	0.745	31.3408	0	31.3408
145.6667	0.7591	31.3013	0.0017	31.3031
145.7	0.7762	31.4328	0.0004	31.4332
145.7333	0.7983	31.4854	0.0004	31.4858
145.7667	0.8151	31.4591	0.0017	31.4609
145.8	0.8272	31.6564	0.0017	31.6581
145.8333	0.846	31.7879	0.0004	31.7883
145.8667	0.8634	31.8799	0.0017	31.8817
145.9	0.8756	32.0509	0.0004	32.0513
145.9333	0.8898	32.1561	0.0004	32.1565
145.9667	0.9013	32.2876	0.0004	32.288
146	0.9125	32.4191	0.0017	32.4208
146.0333	0.9224	32.5374	0.0017	32.5391
146.0667	0.9335	32.6821	0.0004	32.6825
146.1	0.9438	32.7478	0	32.7478
146.1333	0.9572	32.9188	0.0004	32.9192
146.1667	0.9651	33.1423	0.0004	33.1427



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
146.2	0.9704	33.2343	0.0004	33.2348
146.2333	0.9806	33.4316	0.0004	33.432
146.2667	0.9879	33.6025	0	33.6025
146.3	0.9967	33.7077	0	33.7077
146.3333	1.0027	33.8655	0.0004	33.8659
146.3667	1.0112	34.0628	0.0017	34.0645
146.4	1.0155	34.1811	0.0017	34.1829
146.4333	1.0244	34.2469	0.0004	34.2473
146.4667	1.0306	34.3521	0	34.3521
146.5	1.0379	34.6019	0.0004	34.6023
146.5333	1.0418	34.6545	0.0017	34.6562
146.5667	1.0464	34.7729	0.0004	34.7733
146.6	1.0543	34.9307	0.0017	34.9324
146.6333	1.0606	35.1016	0.0017	35.1033
146.6667	1.0665	35.2068	0.0004	35.2072
146.7	1.0761	35.4172	0.0017	35.4189
146.7333	1.0823	35.5618	0.0017	35.5636
146.7667	1.0935	35.6407	0	35.6407
146.8	1.1001	35.7854	0.0017	35.7871
146.8333	1.1083	35.9037	0.0004	35.9042
146.8667	1.1136	36.0615	0.0004	36.062
146.9	1.1231	36.2719	0.0004	36.2723
146.9333	1.1274	36.3114	0.0017	36.3131
146.9667	1.1346	36.4166	0.0017	36.4183
147	1.1409	36.5744	0.003	36.5774
147.0333	1.1481	36.7453	0.0017	36.7471
147.0667	1.1511	36.8768	0.0004	36.8772
147.1	1.158	37.0346	0.0017	37.0363
147.1333	1.1606	37.1661	0.0004	37.1665
147.1667	1.1676	37.3239	0.0004	37.3243
147.2	1.1771	37.3897	0.0004	37.3901
147.2333	1.1758	37.6132	0.0004	37.6136
147.2667	1.1843	37.6921	0.0004	37.6925
147.3	1.1834	37.863	0.0017	37.8648
147.3333	1.1896	37.8499	0.0004	37.8503
147.3667	1.1972	38.0997	0.0004	38.1002
147.4	1.2018	38.2049	0.0017	38.2067
147.4333	1.2024	38.3233	0.0004	38.3237
147.4667	1.2087	38.4285	0.0004	38.4289
147.5	1.2103	38.5468	0.0004	38.5472
147.5333	1.2176	38.652	0.0017	38.6538
147.5667	1.2169	38.7835	0.0004	38.7839
147.6	1.2238	38.823	0.0004	38.8234

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
147.6333	1.2252	38.9808	0.0004	38.9812
147.6667	1.2294	39.1386	0.0004	39.139
147.7	1.2327	39.2306	0.0004	39.231
147.7333	1.236	39.3095	0.0004	39.3099
147.7667	1.2383	39.4673	0.0004	39.4677
147.8	1.2406	39.5594	0.0004	39.5598
147.8333	1.2446	39.6514	0.0004	39.6518
147.8667	1.2446	39.7566	0.0017	39.7583
147.9	1.2508	39.9144	0	39.9144
147.9333	1.2528	40.0459	0.0017	40.0476
147.9667	1.2515	40.0459	0.0017	40.0476
148	1.2568	40.1774	0.0004	40.1778
148.0333	1.2604	40.2957	0	40.2957
148.0667	1.2706	40.3878	0.0004	40.3882
148.1	1.2768	40.493	0	40.493
148.1333	1.2847	40.6508	0.0004	40.6512
148.1667	1.2913	40.7297	0.0004	40.7301
148.2	1.2992	40.8217	0.0004	40.8222
148.2333	1.3061	40.9401	0.0017	40.9418
148.2667	1.3127	41.019	0.0004	41.0194
148.3	1.3153	41.1505	0.0004	41.1509
148.3333	1.3229	41.2951	0.0004	41.2955
148.3667	1.3285	41.374	0	41.374
148.4	1.3292	41.4529	0.0017	41.4547
148.4333	1.339	41.5844	0	41.5844
148.4667	1.3394	41.6633	0.0017	41.665
148.5	1.344	41.7817	0.0004	41.7821
148.5333	1.3509	41.8869	0.0004	41.8873
148.5667	1.3535	41.9921	0	41.9921
148.6	1.3598	42.0973	0.0004	42.0977
148.6333	1.3631	42.1893	0.0004	42.1897
148.6667	1.3657	42.3603	0.0017	42.362
148.7	1.3693	42.3603	0.0004	42.3607
148.7333	1.3726	42.5049	0.0017	42.5066
148.7667	1.3785	42.5575	0.003	42.5605
148.8	1.3815	42.6758	0.0004	42.6763
148.8333	1.3854	42.8073	0.0017	42.8091
148.8667	1.3878	42.8205	0.0017	42.8222
148.9	1.3914	42.9257	0.0004	42.9261
148.9333	1.3943	43.0177	0.0004	43.0182
148.9667	1.3999	43.1492	0.0004	43.1497
149	1.3983	43.2544	0.0017	43.2562
149.0333	1.4029	43.3465	0.0004	43.3469

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
149.0667	1.4065	43.3728	0	43.3728
149.1	1.4101	43.4648	0.0004	43.4652
149.1333	1.4108	43.5437	0.0004	43.5441
149.1667	1.4131	43.7015	0.0017	43.7033
149.2	1.4164	43.7015	0.0017	43.7033
149.2333	1.4174	43.8725	0.0004	43.8729
149.2667	1.4213	43.9645	0.0017	43.9663
149.3	1.4259	43.9777	0	43.9777
149.3333	1.4272	44.1092	0.0004	44.1096
149.3667	1.4282	44.1749	0.0004	44.1753
149.4	1.4309	44.2801	0	44.2801
149.4333	1.4332	44.267	0.0017	44.2687
149.4667	1.4338	44.3853	0.0004	44.3857
149.5	1.4368	44.4774	0.0017	44.4791
149.5333	1.4361	44.5957	0.0004	44.5961
149.5667	1.4404	44.6878	0.0004	44.6882
149.6	1.4414	44.8193	0.0004	44.8197
149.6333	1.4424	44.8193	0.0004	44.8197
149.6667	1.447	44.9639	0.0004	44.9643
149.7	1.445	44.9771	0.0004	44.9775
149.7333	1.447	45.0822	0.0004	45.0827
149.7667	1.4523	45.0954	0.0004	45.0958
149.8	1.4519	45.1348	0.0004	45.1353
149.8333	1.4526	45.2663	0.0004	45.2668
149.8667	1.4562	45.2926	0.0017	45.2944
149.9	1.4572	45.3715	0.0004	45.372
149.9333	1.4602	45.3847	0.0004	45.3851
149.9667	1.4602	45.5425	0.0004	45.5429
150	1.4615	45.5425	0	45.5425
150.0333	1.4618	45.5819	0.0004	45.5824
150.0667	1.4651	45.7003	0.0004	45.7007
150.1	1.4638	45.8318	0.0004	45.8322
150.1333	1.4615	45.7792	0	45.7792
150.1667	1.4615	45.8055	0.0004	45.8059
150.2	1.4611	45.9107	0	45.9107
150.2333	1.4638	45.9238	0	45.9238
150.2667	1.4605	46.0027	0.0017	46.0045
150.3	1.4582	46.0027	0.0004	46.0031
150.3333	1.4588	46.0685	0.0017	46.0702
150.3667	1.4529	46.2	0.0004	46.2004
150.4	1.4552	46.1737	0.0004	46.1741
150.4333	1.4542	46.2789	0	46.2789
150.4667	1.4519	46.2789	0.0004	46.2793

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
150.5	1.4529	46.292	0.0004	46.2924
150.5333	1.4509	46.3972	0.0017	46.399
150.5667	1.45	46.3972	0.003	46.4003
150.6	1.4506	46.5024	0.0004	46.5028
150.6333	1.45	46.4893	0	46.4893
150.6667	1.45	46.5156	0.0017	46.5173
150.7	1.448	46.4893	0.0004	46.4897
150.7333	1.446	46.6076	0.0004	46.608
150.7667	1.4467	46.6734	0.0017	46.6751
150.8	1.4483	46.6865	0	46.6865
150.8333	1.446	46.7128	0.0004	46.7132
150.8667	1.4457	46.6471	0.0017	46.6488
150.9	1.446	46.6734	0.0017	46.6751
150.9333	1.4457	46.726	0.0017	46.7277
150.9667	1.4447	46.8443	0.0017	46.846
151	1.4457	46.8312	0.0004	46.8316
151.0333	1.4417	46.8838	0.0017	46.8855
151.0667	1.4457	46.8838	0.0004	46.8842
151.1	1.4457	46.8575	0.0017	46.8592
151.1333	1.4424	47.0284	0.0004	47.0288
151.1667	1.4444	46.9364	0	46.9364
151.2	1.4414	46.9758	0.0004	46.9762
151.2333	1.4437	46.9758	0.0017	46.9775
151.2667	1.444	47.0021	0	47.0021
151.3	1.4444	47.1731	0.0004	47.1735
151.3333	1.4424	47.0416	0.0017	47.0433
151.3667	1.4421	47.1073	0.0017	47.109
151.4	1.4421	47.1599	0.0004	47.1603
151.4333	1.4427	47.1862	0	47.1862
151.4667	1.4437	47.1862	0.0004	47.1866
151.5	1.4427	47.1468	0	47.1468
151.5333	1.4404	47.1862	0	47.1862
151.5667	1.4437	47.2125	0.0004	47.2129
151.6	1.444	47.3046	0.0017	47.3063
151.6333	1.4427	47.252	0.0017	47.2537
151.6667	1.4417	47.3309	0.0004	47.3313
151.7	1.4414	47.252	0.0004	47.2524
151.7333	1.443	47.3046	0	47.3046
151.7667	1.443	47.3966	0.0004	47.397
151.8	1.4427	47.3966	0.0004	47.397
151.8333	1.4427	47.4229	0.0017	47.4246
151.8667	1.4404	47.4098	0.0017	47.4115
151.9	1.4411	47.4886	0.0017	47.4904

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
151.9333	1.4411	47.6596	0.0017	47.6613
151.9667	1.4424	47.4623	0.0004	47.4628
152	1.4417	47.4229	0.0004	47.4233
152.0333	1.4417	47.4623	0.0004	47.4628
152.0667	1.4434	47.4886	0.0004	47.4891
152.1	1.4394	47.5018	0.0004	47.5022
152.1333	1.444	47.436	0.0017	47.4378
152.1667	1.4417	47.5675	0.0017	47.5693
152.2	1.4434	47.607	0.0004	47.6074
152.2333	1.4421	47.5807	0.0004	47.5811
152.2667	1.4414	47.699	0.0017	47.7008
152.3	1.4381	47.7122	0	47.7122
152.3333	1.4421	47.6727	0.0004	47.6732
152.3667	1.4398	47.6596	0.0004	47.66
152.4	1.4414	47.6727	0.0004	47.6732
152.4333	1.4388	47.7253	0.0017	47.7271
152.4667	1.4404	47.6727	0.0004	47.6732
152.5	1.4424	47.7911	0.0017	47.7928
152.5333	1.4404	47.6727	0.0004	47.6732
152.5667	1.4391	47.8437	0.0004	47.8441
152.6	1.4417	47.7122	0.0017	47.7139
152.6333	1.443	47.7779	0.0017	47.7797
152.6667	1.4381	47.8437	0.0004	47.8441
152.7	1.4424	47.8568	0.0017	47.8586
152.7333	1.4375	47.8042	0.0004	47.8047
152.7667	1.4398	47.9226	0.0004	47.923
152.8	1.4411	47.8174	0.0004	47.8178
152.8333	1.4398	47.8568	0.0004	47.8573
152.8667	1.4407	47.87	0.0004	47.8704
152.9	1.4398	47.87	0.0004	47.8704
152.9333	1.4398	47.9883	0	47.9883
152.9667	1.4388	47.9752	0.0004	47.9756
153	1.4414	47.9883	0.0017	47.9901
153.0333	1.4371	47.8568	0.0017	47.8586
153.0667	1.4414	47.9489	0.0017	47.9506
153.1	1.4398	47.9094	0.0017	47.9112
153.1333	1.4384	47.9226	0	47.9226
153.1667	1.4384	48.0278	0.0004	48.0282
153.2	1.4401	48.0672	0	48.0672
153.2333	1.4437	48.0935	0.0004	48.094
153.2667	1.4411	47.9883	0.0004	47.9888
153.3	1.4388	47.962	0	47.962
153.3333	1.4411	47.9489	0.0004	47.9493

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
153.3667	1.4391	48.1198	0.0017	48.1216
153.4	1.4394	48.1198	0.0004	48.1203
153.4333	1.4404	48.0935	0.003	48.0966
153.4667	1.4384	48.0935	0.003	48.0966
153.5	1.4427	48.1067	0	48.1067
153.5333	1.4414	48.0541	0.003	48.0571
153.5667	1.4394	48.1461	0.0004	48.1466
153.6	1.4417	48.1461	0.0004	48.1466
153.6333	1.4401	48.1461	0.0017	48.1479
153.6667	1.4411	48.2119	0.0004	48.2123
153.7	1.4421	48.133	0.0017	48.1347
153.7333	1.4417	48.1856	0.0004	48.186
153.7667	1.4398	48.1198	0.0004	48.1203
153.8	1.4437	48.1856	0	48.1856
153.8333	1.4391	48.1593	0.0004	48.1597
153.8667	1.443	48.1856	0.0017	48.1873
153.9	1.4404	48.1461	0.0004	48.1466
153.9333	1.4398	48.2119	0	48.2119
153.9667	1.4404	48.1856	0.0017	48.1873
154	1.443	48.3039	0.0004	48.3043
154.0333	1.4404	48.133	0.0004	48.1334
154.0667	1.4375	48.225	0.0017	48.2268
154.1	1.4401	48.1987	0.0017	48.2005
154.1333	1.4394	48.3302	0.0004	48.3306
154.1667	1.4371	48.2513	0.0004	48.2517
154.2	1.4398	48.2513	0.0004	48.2517
154.2333	1.4417	48.2776	0.0017	48.2794
154.2667	1.4404	48.2513	0.0004	48.2517
154.3	1.4368	48.2513	0.0017	48.2531
154.3333	1.4411	48.2908	0.003	48.2938
154.3667	1.4401	48.2382	0.0017	48.2399
154.4	1.4404	48.225	0.0004	48.2254
154.4333	1.4401	48.3302	0.0004	48.3306
154.4667	1.4404	48.2908	0.0017	48.2925
154.5	1.4401	48.2513	0.0017	48.2531
154.5333	1.4388	48.2908	0.0004	48.2912
154.5667	1.4368	48.2119	0	48.2119
154.6	1.4391	48.3039	0.003	48.307
154.6333	1.4404	48.3434	0.0004	48.3438
154.6667	1.4401	48.3171	0	48.3171
154.7	1.4414	48.2908	0.0004	48.2912
154.7333	1.4398	48.2776	0.0004	48.278
154.7667	1.4424	48.3302	0.0004	48.3306

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
154.8	1.4398	48.2776	0.0017	48.2794
154.8333	1.4384	48.3434	0	48.3434
154.8667	1.4404	48.3434	0.0004	48.3438
154.9	1.4401	48.3039	0.0004	48.3043
154.9333	1.4378	48.3434	0.0004	48.3438
154.9667	1.4417	48.2908	0.0004	48.2912
155	1.4388	48.3565	0.0017	48.3583
155.0333	1.4384	48.3434	0.0004	48.3438
155.0667	1.4411	48.4091	0.0004	48.4095
155.1	1.4388	48.3434	0.0004	48.3438
155.1333	1.4404	48.3434	0.0004	48.3438
155.1667	1.4414	48.3697	0	48.3697
155.2	1.4417	48.3565	0.0004	48.3569
155.2333	1.4401	48.3565	0.0004	48.3569
155.2667	1.4391	48.488	0.0004	48.4884
155.3	1.4394	48.3828	0.0004	48.3832
155.3333	1.4391	48.4091	0	48.4091
155.3667	1.4384	48.5143	0	48.5143
155.4	1.4381	48.4223	0.0004	48.4227
155.4333	1.4417	48.4223	0.0017	48.424
155.4667	1.4375	48.488	0.0004	48.4884
155.5	1.4421	48.3828	0.0017	48.3846
155.5333	1.4424	48.3828	0	48.3828
155.5667	1.4371	48.3697	0.0017	48.3714
155.6	1.4398	48.396	0.0004	48.3964
155.6333	1.4391	48.5406	0.0017	48.5424
155.6667	1.4411	48.4486	0.0017	48.4503
155.7	1.4407	48.4617	0	48.4617
155.7333	1.4398	48.5012	0	48.5012
155.7667	1.4398	48.488	0.0017	48.4898
155.8	1.4401	48.3565	0.0017	48.3583
155.8333	1.4358	48.396	0	48.396
155.8667	1.4421	48.4749	0.0004	48.4753
155.9	1.4421	48.4749	0	48.4749
155.9333	1.4384	48.4486	0.0004	48.449
155.9667	1.4388	48.4617	0.0004	48.4621
156	1.4391	48.4749	0.0004	48.4753
156.0333	1.4391	48.5143	0.0004	48.5147
156.0667	1.4444	48.4223	0.0017	48.424
156.1	1.4404	48.4486	0.0004	48.449
156.1333	1.4375	48.488	0	48.488
156.1667	1.4388	48.4486	0.0017	48.4503
156.2	1.4388	48.4354	0.0004	48.4358

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
156.2333	1.4411	48.5669	0.0004	48.5673
156.2667	1.4414	48.4354	0.0004	48.4358
156.3	1.4394	48.488	0.0004	48.4884
156.3333	1.4388	48.4749	0.0004	48.4753
156.3667	1.4421	48.4749	0.0004	48.4753
156.4	1.4401	48.4223	0	48.4223
156.4333	1.4391	48.4354	0.0004	48.4358
156.4667	1.4417	48.4486	0.0004	48.449
156.5	1.4391	48.488	0	48.488
156.5333	1.4398	48.488	0.0017	48.4898
156.5667	1.4398	48.488	0.0004	48.4884
156.6	1.4398	48.4486	0.0017	48.4503
156.6333	1.4371	48.4617	0.0017	48.4635
156.6667	1.4404	48.5406	0.0004	48.541
156.7	1.4384	48.4617	0	48.4617
156.7333	1.4414	48.5275	0.0017	48.5292
156.7667	1.4378	48.4749	0	48.4749
156.8	1.4417	48.5275	0.0017	48.5292
156.8333	1.4388	48.3302	0.0004	48.3306
156.8667	1.4407	48.5538	0.0004	48.5542
156.9	1.4394	48.5012	0	48.5012
156.9333	1.4388	48.4749	0	48.4749
156.9667	1.4365	48.4749	0.0004	48.4753
157	1.4394	48.488	0.0017	48.4898
157.0333	1.4394	48.4486	0	48.4486
157.0667	1.4365	48.4486	0.0004	48.449
157.1	1.4371	48.5406	0.003	48.5437
157.1333	1.4384	48.5012	0.0004	48.5016
157.1667	1.4401	48.4617	0.0004	48.4621
157.2	1.4381	48.5012	0.0017	48.5029
157.2333	1.4388	48.5406	0	48.5406
157.2667	1.4421	48.4617	0.0017	48.4635
157.3	1.4398	48.4223	0	48.4223
157.3333	1.4427	48.4486	0	48.4486
157.3667	1.4437	48.5669	0.0017	48.5687
157.4	1.4427	48.488	0.0004	48.4884
157.4333	1.4473	48.5143	0.0004	48.5147
157.4667	1.446	48.5538	0	48.5538
157.5	1.4427	48.5801	0	48.5801
157.5333	1.4444	48.5143	0.0017	48.5161
157.5667	1.443	48.5406	0.0004	48.541
157.6	1.4454	48.5143	0.0004	48.5147
157.6333	1.4454	48.5012	0	48.5012



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
157.6667	1.445	48.488	0	48.488
157.7	1.4457	48.6195	0.0004	48.6199
157.7333	1.4493	48.5538	0.0004	48.5542
157.7667	1.4496	48.5932	0.0004	48.5936
157.8	1.4457	48.5669	0.0004	48.5673
157.8333	1.4457	48.6984	0	48.6984
157.8667	1.448	48.6853	0.0017	48.687
157.9	1.4509	48.6064	0.0004	48.6068
157.9333	1.4483	48.7247	0.0017	48.7265
157.9667	1.4477	48.5932	0.0017	48.595
158	1.4493	48.5669	0	48.5669
158.0333	1.4503	48.5538	0.0004	48.5542
158.0667	1.446	48.5538	0.0004	48.5542
158.1	1.45	48.5801	0.0004	48.5805
158.1333	1.4506	48.6458	0.0004	48.6462
158.1667	1.4519	48.5801	0.0017	48.5818
158.2	1.4473	48.6327	0.0017	48.6344
158.2333	1.4509	48.6195	0.0004	48.6199
158.2667	1.4486	48.6064	0	48.6064
158.3	1.4506	48.6064	0.0017	48.6081
158.3333	1.4519	48.6064	0.003	48.6094
158.3667	1.4529	48.6853	0.0004	48.6857
158.4	1.4513	48.6195	0.0004	48.6199
158.4333	1.4523	48.6853	0.0004	48.6857
158.4667	1.4529	48.659	0	48.659
158.5	1.4509	48.7379	0.0017	48.7396
158.5333	1.4532	48.5669	0.0017	48.5687
158.5667	1.4509	48.659	0.0004	48.6594
158.6	1.4542	48.7116	0.0004	48.712
158.6333	1.4523	48.7116	0.0004	48.712
158.6667	1.4516	48.6984	0.0004	48.6988
158.7	1.4526	48.6984	0.0004	48.6988
158.7333	1.4532	48.7116	0	48.7116
158.7667	1.4562	48.6853	0.0004	48.6857
158.8	1.4523	48.6984	0.0004	48.6988
158.8333	1.4552	48.7247	0	48.7247
158.8667	1.4532	48.751	0.0017	48.7528
158.9	1.4556	48.6984	0.0004	48.6988
158.9333	1.4546	48.6721	0	48.6721
158.9667	1.4532	48.6721	0.0017	48.6739
159	1.4569	48.659	0	48.659
159.0333	1.4559	48.7642	0.0004	48.7646
159.0667	1.4552	48.7642	0.0004	48.7646

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
159.1	1.4539	48.659	0	48.659
159.1333	1.4539	48.7247	0.0004	48.7251
159.1667	1.4539	48.6853	0.0004	48.6857
159.2	1.4559	48.6195	0.0017	48.6213
159.2333	1.4556	48.7247	0.003	48.7278
159.2667	1.4546	48.6853	0.0017	48.687
159.3	1.4546	48.659	0.0017	48.6607
159.3333	1.4529	48.6195	0.0004	48.6199
159.3667	1.4562	48.7905	0.0017	48.7922
159.4	1.4529	48.751	0.0004	48.7514
159.4333	1.4549	48.6458	0.0004	48.6462
159.4667	1.4549	48.6984	0.0004	48.6988
159.5	1.4562	48.8036	0.0004	48.804
159.5333	1.4546	48.6721	0.0017	48.6739
159.5667	1.4562	48.7379	0.0017	48.7396
159.6	1.4565	48.7247	0.0017	48.7265
159.6333	1.4539	48.751	0.0017	48.7528
159.6667	1.4519	48.751	0.0004	48.7514
159.7	1.4532	48.8036	0.0017	48.8054
159.7333	1.4552	48.659	0.0004	48.6594
159.7667	1.4556	48.8036	0	48.8036
159.8	1.4559	48.8036	0.0004	48.804
159.8333	1.4546	48.7379	0.0004	48.7383
159.8667	1.4556	48.7642	0.003	48.7672
159.9	1.4569	48.751	0.0004	48.7514
159.9333	1.4572	48.7379	0	48.7379
159.9667	1.4575	48.8036	0.0004	48.804
160	1.4539	48.8299	0.0004	48.8303
160.0333	1.4559	48.8299	0	48.8299
160.0667	1.4562	48.8562	0.0004	48.8566
160.1	1.4579	48.751	0	48.751
160.1333	1.4562	48.8562	0.0004	48.8566
160.1667	1.4562	48.8431	0.0004	48.8435
160.2	1.4559	48.8036	0.0017	48.8054
160.2333	1.4579	48.751	0.003	48.7541
160.2667	1.4559	48.8036	0.0004	48.804
160.3	1.4556	48.7642	0.0004	48.7646
160.3333	1.4532	48.8825	0.0004	48.8829
160.3667	1.4565	48.751	0.0004	48.7514
160.4	1.4592	48.8825	0	48.8825
160.4333	1.4575	48.8168	0.0004	48.8172
160.4667	1.4556	48.7773	0	48.7773
160.5	1.4559	48.7379	0.0004	48.7383

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
160.5333	1.4569	48.8036	0.0004	48.804
160.5667	1.4562	48.7905	0.0004	48.7909
160.6	1.4595	48.8168	0	48.8168
160.6333	1.4572	48.8168	0	48.8168
160.6667	1.4562	48.8036	0.0004	48.804
160.7	1.4592	48.7773	0.0017	48.7791
160.7333	1.4546	48.8299	0.0004	48.8303
160.7667	1.4569	48.7905	0.0004	48.7909
160.8	1.4569	48.8299	0.0004	48.8303
160.8333	1.4595	48.8036	0.0004	48.804
160.8667	1.4572	48.8299	0.0004	48.8303
160.9	1.4546	48.8694	0.0004	48.8698
160.9333	1.4552	48.8431	0.0004	48.8435
160.9667	1.4575	48.7905	0.0004	48.7909
161	1.4592	48.8299	0.003	48.833
161.0333	1.4572	48.8825	0.0004	48.8829
161.0667	1.4582	48.8957	0.0004	48.8961
161.1	1.4575	48.8562	0.0004	48.8566
161.1333	1.4569	48.8562	0.0017	48.858
161.1667	1.4556	48.8694	0.0004	48.8698
161.2	1.4559	48.8036	0.0017	48.8054
161.2333	1.4556	48.8694	0.0004	48.8698
161.2667	1.4565	48.8431	0	48.8431
161.3	1.4569	48.7905	0.0004	48.7909
161.3333	1.4572	48.8694	0.0004	48.8698
161.3667	1.4549	48.9483	0	48.9483
161.4	1.4556	48.7773	0.0017	48.7791
161.4333	1.4552	48.9088	0.0004	48.9092
161.4667	1.4556	48.7773	0.0004	48.7777
161.5	1.4575	48.8431	0.0004	48.8435
161.5333	1.4579	48.8825	0.0017	48.8843
161.5667	1.4585	48.8562	0.0017	48.858
161.6	1.4556	48.8825	0.0017	48.8843
161.6333	1.4552	48.8825	0.0004	48.8829
161.6667	1.4582	48.8431	0.0004	48.8435
161.7	1.4569	48.8562	0.0004	48.8566
161.7333	1.4582	48.8825	0.0004	48.8829
161.7667	1.4595	48.9088	0.0004	48.9092
161.8	1.4585	48.8299	0	48.8299
161.8333	1.4592	48.9614	0.0004	48.9618
161.8667	1.4598	48.8825	0.0004	48.8829
161.9	1.4572	48.9088	0.0004	48.9092
161.9333	1.4572	48.8036	0.003	48.8067

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
161.9667	1.4575	48.8957	0.0004	48.8961
162	1.4592	48.8694	0.0017	48.8711
162.0333	1.4585	48.8694	0.0004	48.8698
162.0667	1.4556	48.8299	0	48.8299
162.1	1.4572	48.9088	0	48.9088
162.1333	1.4559	48.8036	0.0004	48.804
162.1667	1.4565	48.8562	0.0017	48.858
162.2	1.4602	48.8562	0.0004	48.8566
162.2333	1.4569	48.8431	0	48.8431
162.2667	1.4588	48.922	0.0004	48.9224
162.3	1.4549	48.8562	0.0017	48.858
162.3333	1.4569	48.9088	0.0004	48.9092
162.3667	1.4572	48.7905	0.0017	48.7922
162.4	1.4556	48.8694	0	48.8694
162.4333	1.4562	48.9483	0	48.9483
162.4667	1.4579	48.922	0	48.922
162.5	1.4559	48.8957	0.0004	48.8961
162.5333	1.4572	49.014	0	49.014
162.5667	1.4582	48.9483	0.0004	48.9487
162.6	1.4605	48.9483	0.0004	48.9487
162.6333	1.4608	48.9614	0.0017	48.9631
162.6667	1.4565	48.8957	0	48.8957
162.7	1.4582	48.8825	0.0017	48.8843
162.7333	1.4579	48.8825	0.0017	48.8843
162.7667	1.4605	48.9614	0.0017	48.9631
162.8	1.4595	48.922	0.0004	48.9224
162.8333	1.4582	48.9351	0.0004	48.9355
162.8667	1.4569	48.922	0.0017	48.9237
162.9	1.4575	48.8431	0	48.8431
162.9333	1.4575	48.8168	0.003	48.8198
162.9667	1.4575	48.9351	0.0004	48.9355
163	1.4559	48.8431	0.0004	48.8435
163.0333	1.4575	48.9746	0.0004	48.975
163.0667	1.4569	48.8957	0.0017	48.8974
163.1	1.4569	48.9088	0.0004	48.9092
163.1333	1.4588	48.9088	0.0004	48.9092
163.1667	1.4569	48.922	0.0017	48.9237
163.2	1.4549	48.8694	0.0004	48.8698
163.2333	1.4556	48.9483	0.0004	48.9487
163.2667	1.4549	48.8825	0.0017	48.8843
163.3	1.4598	48.9351	0.0004	48.9355
163.3333	1.4556	48.9614	0.0017	48.9631
163.3667	1.4582	48.9877	0.0017	48.9894

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
163.4	1.4582	48.8694	0.0017	48.8711
163.4333	1.4562	48.8431	0.0017	48.8448
163.4667	1.4549	48.8431	0.0004	48.8435
163.5	1.4579	48.922	0.0004	48.9224
163.5333	1.4595	48.8562	0.003	48.8593
163.5667	1.4585	48.8431	0.0004	48.8435
163.6	1.4598	48.9483	0.0017	48.95
163.6333	1.4562	48.8694	0.0017	48.8711
163.6667	1.4588	48.8299	0.0004	48.8303
163.7	1.4579	48.9614	0.0004	48.9618
163.7333	1.4569	48.9351	0.0004	48.9355
163.7667	1.4569	48.7773	0.0017	48.7791
163.8	1.4615	48.8562	0.0004	48.8566
163.8333	1.4572	48.9483	0	48.9483
163.8667	1.4575	48.8431	0.0017	48.8448
163.9	1.4582	48.9088	0.0004	48.9092
163.9333	1.4579	48.8957	0.0004	48.8961
163.9667	1.4556	48.8825	0.0004	48.8829
164	1.4575	48.8299	0.0004	48.8303
164.0333	1.4595	48.8299	0	48.8299
164.0667	1.4539	48.8825	0.0004	48.8829
164.1	1.4575	48.8694	0.0017	48.8711
164.1333	1.4559	48.9746	0.0017	48.9763
164.1667	1.4582	48.922	0.0004	48.9224
164.2	1.4582	48.8562	0.0017	48.858
164.2333	1.4549	48.9483	0	48.9483
164.2667	1.4595	48.8694	0.0004	48.8698
164.3	1.4582	48.922	0	48.922
164.3333	1.4562	48.9088	0.0017	48.9105
164.3667	1.4562	48.922	0.0004	48.9224
164.4	1.4582	48.8299	0.0004	48.8303
164.4333	1.4569	48.9088	0.0004	48.9092
164.4667	1.4592	48.8825	0.0004	48.8829
164.5	1.4572	48.9088	0.0017	48.9105
164.5333	1.4582	48.922	0.003	48.925
164.5667	1.4582	48.9351	0.0017	48.9368
164.6	1.4565	48.922	0.0017	48.9237
164.6333	1.4556	48.8694	0.0004	48.8698
164.6667	1.4582	48.922	0.0004	48.9224
164.7	1.4588	48.9088	0.0004	48.9092
164.7333	1.4582	48.8694	0.0017	48.8711
164.7667	1.4549	48.9483	0.0004	48.9487
164.8	1.4562	48.9088	0.0017	48.9105

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
164.8333	1.4579	48.8825	0.0017	48.8843
164.8667	1.4542	48.8957	0.0004	48.8961
164.9	1.4575	48.8562	0	48.8562
164.9333	1.4572	48.9483	0.0004	48.9487
164.9667	1.4549	48.8299	0.0004	48.8303
165	1.4602	48.8825	0.0004	48.8829
165.0333	1.4588	48.9351	0.0017	48.9368
165.0667	1.4582	48.8957	0.0017	48.8974
165.1	1.4575	48.8431	0.003	48.8461
165.1333	1.4569	48.8957	0.0004	48.8961
165.1667	1.4588	48.8825	0.0004	48.8829
165.2	1.4572	48.8694	0	48.8694
165.2333	1.4585	48.7905	0.0017	48.7922
165.2667	1.4572	48.8562	0.0017	48.858
165.3	1.4562	48.9746	0	48.9746
165.3333	1.4588	48.9746	0.0017	48.9763
165.3667	1.4559	48.9351	0.0017	48.9368
165.4	1.4585	48.9088	0.0004	48.9092
165.4333	1.4562	48.9088	0.0004	48.9092
165.4667	1.4595	48.9351	0.0004	48.9355
165.5	1.4582	48.8694	0.0004	48.8698
165.5333	1.4549	48.9088	0.0004	48.9092
165.5667	1.4588	48.9877	0.0004	48.9881
165.6	1.4588	48.9483	0	48.9483
165.6333	1.4598	48.7905	0.0004	48.7909
165.6667	1.4595	48.8825	0.0004	48.8829
165.7	1.4572	48.8825	0	48.8825
165.7333	1.4588	48.8562	0	48.8562
165.7667	1.4598	48.8825	0	48.8825
165.8	1.4582	48.8562	0.0004	48.8566
165.8333	1.4582	48.8825	0.0004	48.8829
165.8667	1.4565	48.8694	0.0004	48.8698
165.9	1.4592	48.8694	0	48.8694
165.9333	1.4569	48.8957	0.0004	48.8961
165.9667	1.4565	48.8299	0.0017	48.8317
166	1.4595	48.9088	0.0004	48.9092
166.0333	1.4585	48.8694	0.0004	48.8698
166.0667	1.4585	48.8957	0.0004	48.8961
166.1	1.4579	48.8825	0.0017	48.8843
166.1333	1.4598	48.9088	0	48.9088
166.1667	1.4572	48.8957	0.0017	48.8974
166.2	1.4582	48.8562	0.0004	48.8566
166.2333	1.4556	48.8431	0.0004	48.8435

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
166.2667	1.4556	48.9088	0.0004	48.9092
166.3	1.4582	48.9088	0.0004	48.9092
166.3333	1.4556	48.8431	0.0004	48.8435
166.3667	1.4539	48.8036	0.0017	48.8054
166.4	1.4569	48.9088	0.0004	48.9092
166.4333	1.4588	48.8562	0.0004	48.8566
166.4667	1.4588	48.8694	0.0004	48.8698
166.5	1.4559	48.8694	0.0017	48.8711
166.5333	1.4565	48.8694	0.0004	48.8698
166.5667	1.4575	48.8957	0.0017	48.8974
166.6	1.4585	48.8694	0.0004	48.8698
166.6333	1.4582	48.8825	0	48.8825
166.6667	1.4585	48.9088	0.0004	48.9092
166.7	1.4552	48.8825	0	48.8825
166.7333	1.4565	48.8694	0.0017	48.8711
166.7667	1.4542	48.8036	0.0004	48.804
166.8	1.4552	48.8694	0.0004	48.8698
166.8333	1.4575	48.8431	0.0004	48.8435
166.8667	1.4569	48.8957	0.0004	48.8961
166.9	1.4562	48.8299	0	48.8299
166.9333	1.4598	48.9088	0.0004	48.9092
166.9667	1.4582	48.8299	0.0017	48.8317
167	1.4559	48.8694	0.0004	48.8698
167.0333	1.4582	48.9351	0.0004	48.9355
167.0667	1.4559	48.8299	0	48.8299
167.1	1.4585	48.8694	0	48.8694
167.1333	1.4575	48.8694	0	48.8694
167.1667	1.4539	48.7773	0.0004	48.7777
167.2	1.4562	48.922	0.0004	48.9224
167.2333	1.4546	48.9088	0.0004	48.9092
167.2667	1.4569	48.9746	0.0004	48.975
167.3	1.4592	48.9088	0.0004	48.9092
167.3333	1.4565	48.922	0.0004	48.9224
167.3667	1.4588	48.8431	0.0004	48.8435
167.4	1.4556	48.9483	0.0004	48.9487
167.4333	1.4598	48.8562	0.0004	48.8566
167.4667	1.4562	48.8694	0.003	48.8724
167.5	1.4546	48.8299	0.0017	48.8317
167.5333	1.4552	48.8957	0.0004	48.8961
167.5667	1.4588	48.751	0	48.751
167.6	1.4562	48.8036	0.0004	48.804
167.6333	1.4569	48.7905	0.0004	48.7909
167.6667	1.4556	48.8168	0.0004	48.8172

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
167.7	1.4556	48.922	0.0004	48.9224
167.7333	1.4575	48.8957	0.0017	48.8974
167.7667	1.4585	48.8825	0	48.8825
167.8	1.4539	48.8431	0.0004	48.8435
167.8333	1.4552	48.8168	0.0004	48.8172
167.8667	1.4549	48.8957	0.0004	48.8961
167.9	1.4565	48.8694	0.0004	48.8698
167.9333	1.4556	48.8694	0.0004	48.8698
167.9667	1.4565	48.8562	0.0017	48.858
168	1.4592	48.8168	0.0004	48.8172
168.0333	1.4565	48.8957	0	48.8957
168.0667	1.4569	48.8299	0.0017	48.8317
168.1	1.4539	48.8299	0.0017	48.8317
168.1333	1.4569	48.8694	0	48.8694
168.1667	1.4575	48.8299	0.003	48.833
168.2	1.4546	48.8694	0.0017	48.8711
168.2333	1.4556	48.8825	0.0004	48.8829
168.2667	1.4588	48.8957	0	48.8957
168.3	1.4546	48.9088	0.0004	48.9092
168.3333	1.4569	48.8299	0.0017	48.8317
168.3667	1.4556	48.9088	0.0004	48.9092
168.4	1.4569	48.8168	0.0004	48.8172
168.4333	1.4592	48.8168	0.0004	48.8172
168.4667	1.4572	48.9351	0.0004	48.9355
168.5	1.4552	48.8694	0.0004	48.8698
168.5333	1.4546	48.7773	0.0004	48.7777
168.5667	1.4579	48.7773	0.0004	48.7777
168.6	1.4549	48.8168	0.0004	48.8172
168.6333	1.4536	48.8168	0.0004	48.8172
168.6667	1.4592	48.8036	0	48.8036
168.7	1.4565	48.8562	0.0017	48.858
168.7333	1.4572	48.8562	0.0004	48.8566
168.7667	1.4569	48.8957	0.003	48.8987
168.8	1.4569	48.8562	0.0004	48.8566
168.8333	1.4572	48.8562	0.0004	48.8566
168.8667	1.4569	48.8299	0.0004	48.8303
168.9	1.4565	48.8168	0.0004	48.8172
168.9333	1.4572	48.8562	0.0004	48.8566
168.9667	1.4572	48.7642	0	48.7642
169	1.4582	48.8036	0.0004	48.804
169.0333	1.4569	48.751	0.0004	48.7514
169.0667	1.4546	48.7773	0	48.7773
169.1	1.4559	48.8957	0.0004	48.8961



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
169.1333	1.4549	48.8299	0.0004	48.8303
169.1667	1.4559	48.8431	0.0017	48.8448
169.2	1.4546	48.9088	0.0004	48.9092
169.2333	1.4579	48.8694	0.0004	48.8698
169.2667	1.4585	48.8168	0.0004	48.8172
169.3	1.4582	48.751	0.0004	48.7514
169.3333	1.4539	48.8036	0.0004	48.804
169.3667	1.4549	48.8036	0.0004	48.804
169.4	1.4572	48.8562	0.0017	48.858
169.4333	1.4572	48.8299	0.0004	48.8303
169.4667	1.4552	48.8562	0.0004	48.8566
169.5	1.4549	48.8299	0.0017	48.8317
169.5333	1.4552	48.8299	0.0017	48.8317
169.5667	1.4565	48.7905	0	48.7905
169.6	1.4562	48.8694	0	48.8694
169.6333	1.4559	48.9351	0.0004	48.9355
169.6667	1.4556	48.8957	0.0004	48.8961
169.7	1.4569	48.8562	0.0017	48.858
169.7333	1.4569	48.8825	0.0017	48.8843
169.7667	1.4572	48.7642	0.0004	48.7646
169.8	1.4575	48.8168	0	48.8168
169.8333	1.4595	48.8562	0.0004	48.8566
169.8667	1.4588	48.8299	0.0017	48.8317
169.9	1.4572	48.7379	0.0017	48.7396
169.9333	1.4556	48.8431	0.0004	48.8435
169.9667	1.4585	48.7773	0.0017	48.7791
170	1.4559	48.8431	0	48.8431
170.0333	1.4575	48.7905	0.0017	48.7922
170.0667	1.4582	48.7773	0.0004	48.7777
170.1	1.4582	48.8168	0	48.8168
170.1333	1.4542	48.8168	0.0004	48.8172
170.1667	1.4575	48.7905	0.0004	48.7909
170.2	1.4585	48.8562	0.0004	48.8566
170.2333	1.4542	48.7773	0.0004	48.7777
170.2667	1.4569	48.8036	0	48.8036
170.3	1.4575	48.751	0	48.751
170.3333	1.4556	48.8036	0.0004	48.804
170.3667	1.4552	48.8299	0.0017	48.8317
170.4	1.4595	48.8036	0.0004	48.804
170.4333	1.4569	48.922	0.0017	48.9237
170.4667	1.4588	48.7773	0.0004	48.7777
170.5	1.4575	48.8168	0.0004	48.8172
170.5333	1.4595	48.8431	0.0004	48.8435

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
170.5667	1.4582	48.7247	0	48.7247
170.6	1.4562	48.8694	0.0017	48.8711
170.6333	1.4585	48.8431	0.0004	48.8435
170.6667	1.4579	48.8694	0.0004	48.8698
170.7	1.4588	48.751	0.0004	48.7514
170.7333	1.4592	48.8036	0.0004	48.804
170.7667	1.4569	48.7905	0	48.7905
170.8	1.4585	48.8562	0	48.8562
170.8333	1.4569	48.8694	0.0004	48.8698
170.8667	1.4585	48.8299	0	48.8299
170.9	1.4569	48.8562	0.0004	48.8566
170.9333	1.4562	48.8299	0.0004	48.8303
170.9667	1.4579	48.9088	0.0004	48.9092
171	1.4572	48.8299	0.0017	48.8317
171.0333	1.4562	48.8562	0.0004	48.8566
171.0667	1.4569	48.7247	0.0017	48.7265
171.1	1.4575	48.8431	0.0017	48.8448
171.1333	1.4582	48.8036	0.0004	48.804
171.1667	1.4569	48.7773	0.0004	48.7777
171.2	1.4592	48.7247	0.0004	48.7251
171.2333	1.4602	48.8168	0.0017	48.8185
171.2667	1.4575	48.7773	0	48.7773
171.3	1.4569	48.7642	0.0017	48.7659
171.3333	1.4572	48.8562	0	48.8562
171.3667	1.4602	48.7905	0.0004	48.7909
171.4	1.4611	48.6984	0.0017	48.7002
171.4333	1.4582	48.7773	0	48.7773
171.4667	1.4565	48.8036	0	48.8036
171.5	1.4572	48.7773	0.0017	48.7791
171.5333	1.4575	48.8431	0.0004	48.8435
171.5667	1.4565	48.7116	0.0017	48.7133
171.6	1.4559	48.7379	0.0017	48.7396
171.6333	1.4556	48.9088	0.0004	48.9092
171.6667	1.4582	48.8562	0.0004	48.8566
171.7	1.4569	48.8562	0.0004	48.8566
171.7333	1.4572	48.8168	0.0004	48.8172
171.7667	1.4585	48.8299	0.0004	48.8303
171.8	1.4585	48.7247	0.0004	48.7251
171.8333	1.4569	48.7773	0.003	48.7804
171.8667	1.4582	48.8562	0.0004	48.8566
171.9	1.4585	48.8036	0.0004	48.804
171.9333	1.4569	48.8036	0.0004	48.804
171.9667	1.4562	48.8299	0.0017	48.8317

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
172	1.4556	48.8036	0	48.8036
172.0333	1.4575	48.751	0.0017	48.7528
172.0667	1.4575	48.8036	0.0017	48.8054
172.1	1.4588	48.8299	0.0004	48.8303
172.1333	1.4562	48.7905	0.0017	48.7922
172.1667	1.4595	48.7773	0.0004	48.7777
172.2	1.4592	48.8299	0.0004	48.8303
172.2333	1.4572	48.8431	0.0004	48.8435
172.2667	1.4565	48.751	0.0017	48.7528
172.3	1.4562	48.8036	0.0017	48.8054
172.3333	1.4582	48.7642	0.0017	48.7659
172.3667	1.4592	48.8431	0.0004	48.8435
172.4	1.4562	48.7642	0.0004	48.7646
172.4333	1.4556	48.751	0.0017	48.7528
172.4667	1.4575	48.7642	0.0004	48.7646
172.5	1.4595	48.751	0.0004	48.7514
172.5333	1.4565	48.7905	0	48.7905
172.5667	1.4575	48.7773	0.0004	48.7777
172.6	1.4608	48.8168	0.0004	48.8172
172.6333	1.4575	48.7642	0.0004	48.7646
172.6667	1.4552	48.7642	0	48.7642
172.7	1.4559	48.751	0.0017	48.7528
172.7333	1.4598	48.8957	0	48.8957
172.7667	1.4575	48.7116	0.0004	48.712
172.8	1.4556	48.7773	0.0004	48.7777
172.8333	1.4598	48.8036	0	48.8036
172.8667	1.4579	48.7642	0.0004	48.7646
172.9	1.4579	48.7642	0.0004	48.7646
172.9333	1.4575	48.7247	0.0017	48.7265
172.9667	1.4556	48.8299	0.0004	48.8303
173	1.4585	48.8168	0	48.8168
173.0333	1.4582	48.6721	0	48.6721
173.0667	1.4582	48.7642	0.0017	48.7659
173.1	1.4542	48.751	0.0004	48.7514
173.1333	1.4542	48.8036	0.0004	48.804
173.1667	1.4585	48.7773	0	48.7773
173.2	1.4569	48.8036	0.0004	48.804
173.2333	1.4579	48.751	0.0004	48.7514
173.2667	1.4569	48.8562	0	48.8562
173.3	1.4582	48.7642	0.0004	48.7646
173.3333	1.4562	48.751	0	48.751
173.3667	1.4595	48.8299	0.0004	48.8303
173.4	1.4559	48.7642	0.0004	48.7646

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
173.4333	1.4575	48.7773	0.0004	48.7777
173.4667	1.4562	48.8168	0.0004	48.8172
173.5	1.4585	48.8036	0.0004	48.804
173.5333	1.4569	48.9088	0.0017	48.9105
173.5667	1.4559	48.7905	0.0017	48.7922
173.6	1.4585	48.8299	0	48.8299
173.6333	1.4605	48.7773	0	48.7773
173.6667	1.4565	48.8299	0.0017	48.8317
173.7	1.4598	48.8036	0.0017	48.8054
173.7333	1.4608	48.7773	0.0004	48.7777
173.7667	1.4562	48.8036	0.0004	48.804
173.8	1.4602	48.8299	0.0004	48.8303
173.8333	1.4582	48.7642	0.0004	48.7646
173.8667	1.4569	48.7905	0.0004	48.7909
173.9	1.4539	48.8036	0.0017	48.8054
173.9333	1.4532	48.751	0.0004	48.7514
173.9667	1.4592	48.7116	0.0004	48.712
174	1.4585	48.751	0.0004	48.7514
174.0333	1.4588	48.8036	0.0017	48.8054
174.0667	1.4572	48.7642	0	48.7642
174.1	1.4575	48.751	0	48.751
174.1333	1.4569	48.8299	0.0017	48.8317
174.1667	1.4582	48.6853	0	48.6853
174.2	1.4575	48.7642	0.003	48.7672
174.2333	1.4579	48.751	0	48.751
174.2667	1.4595	48.7905	0.0004	48.7909
174.3	1.4572	48.7247	0.0004	48.7251
174.3333	1.4539	48.7116	0.0017	48.7133
174.3667	1.4559	48.7379	0.0017	48.7396
174.4	1.4569	48.8431	0.0004	48.8435
174.4333	1.4608	48.7642	0.0004	48.7646
174.4667	1.4602	48.751	0.0017	48.7528
174.5	1.4575	48.6984	0	48.6984
174.5333	1.4572	48.8168	0.0004	48.8172
174.5667	1.4556	48.8562	0	48.8562
174.6	1.4575	48.7247	0.0004	48.7251
174.6333	1.4602	48.8168	0.0004	48.8172
174.6667	1.4579	48.7642	0.0004	48.7646
174.7	1.4562	48.7247	0.0017	48.7265
174.7333	1.4562	48.751	0.0004	48.7514
174.7667	1.4595	48.8694	0.0004	48.8698
174.8	1.4585	48.8036	0.0004	48.804
174.8333	1.4582	48.751	0.0004	48.7514

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
174.8667	1.4582	48.7773	0.0017	48.7791
174.9	1.4592	48.7642	0.0004	48.7646
174.9333	1.4585	48.6853	0.0004	48.6857
174.9667	1.4559	48.7247	0.0004	48.7251
175	1.4611	48.751	0.0004	48.7514
175.0333	1.4582	48.7116	0.0017	48.7133
175.0667	1.4575	48.7905	0.0004	48.7909
175.1	1.4579	48.7905	0.0004	48.7909
175.1333	1.4598	48.7905	0.0004	48.7909
175.1667	1.4569	48.751	0.0004	48.7514
175.2	1.4575	48.7247	0.0004	48.7251
175.2333	1.4556	48.7905	0.0017	48.7922
175.2667	1.4575	48.7905	0.0004	48.7909
175.3	1.4592	48.7773	0.0004	48.7777
175.3333	1.4562	48.7247	0.0004	48.7251
175.3667	1.4595	48.7905	0	48.7905
175.4	1.4575	48.8168	0.0017	48.8185
175.4333	1.4572	48.7905	0	48.7905
175.4667	1.4602	48.7905	0	48.7905
175.5	1.4588	48.8036	0.0004	48.804
175.5333	1.4592	48.7642	0.0004	48.7646
175.5667	1.4588	48.8299	0.0017	48.8317
175.6	1.4569	48.751	0.0004	48.7514
175.6333	1.4562	48.8036	0	48.8036
175.6667	1.4615	48.8036	0.003	48.8067
175.7	1.4585	48.7247	0.0017	48.7265
175.7333	1.4595	48.7116	0.0004	48.712
175.7667	1.4582	48.8036	0.0004	48.804
175.8	1.4579	48.6458	0.0004	48.6462
175.8333	1.4569	48.7905	0.0004	48.7909
175.8667	1.4562	48.8168	0.0004	48.8172
175.9	1.4575	48.751	0.0004	48.7514
175.9333	1.4559	48.7247	0.0004	48.7251
175.9667	1.4532	48.7642	0.0017	48.7659
176	1.4592	48.6721	0.0017	48.6739
176.0333	1.4575	48.8036	0.0017	48.8054
176.0667	1.4556	48.8431	0.0004	48.8435
176.1	1.4588	48.7379	0.0004	48.7383
176.1333	1.4585	48.7247	0.0004	48.7251
176.1667	1.4556	48.7116	0	48.7116
176.2	1.4562	48.7905	0.0004	48.7909
176.2333	1.4559	48.6984	0.0017	48.7002
176.2667	1.4572	48.7247	0.0004	48.7251

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
176.3	1.4546	48.6984	0.0004	48.6988
176.3333	1.4565	48.751	0.0017	48.7528
176.3667	1.4572	48.7905	0.0017	48.7922
176.4	1.4585	48.7773	0.0004	48.7777
176.4333	1.4565	48.751	0.0004	48.7514
176.4667	1.4588	48.6853	0.0004	48.6857
176.5	1.4569	48.7773	0.0004	48.7777
176.5333	1.4562	48.8168	0	48.8168
176.5667	1.4585	48.751	0.0017	48.7528
176.6	1.4585	48.751	0.0017	48.7528
176.6333	1.4562	48.8168	0.0004	48.8172
176.6667	1.4569	48.6984	0.0004	48.6988
176.7	1.4552	48.7247	0.0004	48.7251
176.7333	1.4556	48.751	0.0004	48.7514
176.7667	1.4556	48.659	0	48.659
176.8	1.4562	48.8168	0.0004	48.8172
176.8333	1.4575	48.8036	0.0004	48.804
176.8667	1.4575	48.7116	0.0004	48.712
176.9	1.4588	48.8168	0.0017	48.8185
176.9333	1.4582	48.7642	0.0004	48.7646
176.9667	1.4582	48.6984	0.0004	48.6988
177	1.4549	48.6984	0	48.6984
177.0333	1.4562	48.7773	0.0004	48.7777
177.0667	1.4562	48.7247	0.0017	48.7265
177.1	1.4592	48.8431	0	48.8431
177.1333	1.4559	48.7379	0	48.7379
177.1667	1.4559	48.751	0.0004	48.7514
177.2	1.4595	48.7773	0.0004	48.7777
177.2333	1.4585	48.8036	0.0004	48.804
177.2667	1.4605	48.8694	0	48.8694
177.3	1.4588	48.751	0.0017	48.7528
177.3333	1.4611	48.751	0.0004	48.7514
177.3667	1.4602	48.751	0.0004	48.7514
177.4	1.4582	48.751	0.0004	48.7514
177.4333	1.4588	48.7247	0	48.7247
177.4667	1.4595	48.8168	0.0004	48.8172
177.5	1.4618	48.751	0	48.751
177.5333	1.4559	48.6984	0	48.6984
177.5667	1.4562	48.7642	0	48.7642
177.6	1.4598	48.6984	0.0004	48.6988
177.6333	1.4598	48.8036	0.0017	48.8054
177.6667	1.4605	48.7905	0	48.7905
177.7	1.4588	48.751	0.0004	48.7514

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
177.7333	1.4575	48.7379	0.0004	48.7383
177.7667	1.4552	48.751	0	48.751
177.8	1.4602	48.7247	0.0004	48.7251
177.8333	1.4582	48.8036	0.0004	48.804
177.8667	1.4569	48.7247	0.0004	48.7251
177.9	1.4569	48.7379	0	48.7379
177.9333	1.4588	48.7379	0.0004	48.7383
177.9667	1.4585	48.8036	0.0004	48.804
178	1.4608	48.7379	0.0004	48.7383
178.0333	1.4562	48.7247	0.0004	48.7251
178.0667	1.4572	48.8036	0.0004	48.804
178.1	1.4605	48.6984	0.0004	48.6988
178.1333	1.4582	48.7116	0	48.7116
178.1667	1.4592	48.7379	0.0004	48.7383
178.2	1.4579	48.7773	0.0004	48.7777
178.2333	1.4595	48.7379	0.0004	48.7383
178.2667	1.4569	48.7905	0.0004	48.7909
178.3	1.4575	48.6853	0	48.6853
178.3333	1.4585	48.7116	0.0004	48.712
178.3667	1.4556	48.8431	0.0017	48.8448
178.4	1.4585	48.6458	0.0004	48.6462
178.4333	1.4572	48.8299	0.0004	48.8303
178.4667	1.4588	48.6721	0.0017	48.6739
178.5	1.4579	48.7642	0.0004	48.7646
178.5333	1.4592	48.7116	0.0004	48.712
178.5667	1.4575	48.7379	0.0004	48.7383
178.6	1.4615	48.6984	0.0017	48.7002
178.6333	1.4621	48.6853	0	48.6853
178.6667	1.4592	48.659	0	48.659
178.7	1.4575	48.751	0	48.751
178.7333	1.4562	48.7642	0.0004	48.7646
178.7667	1.4562	48.6721	0.0017	48.6739
178.8	1.4572	48.7905	0.0017	48.7922
178.8333	1.4592	48.7905	0.0017	48.7922
178.8667	1.4565	48.7247	0	48.7247
178.9	1.4582	48.7247	0.0004	48.7251
178.9333	1.4546	48.751	0.0004	48.7514
178.9667	1.4592	48.7379	0.0004	48.7383
179	1.4559	48.7247	0.0004	48.7251
179.0333	1.4582	48.7642	0.0004	48.7646
179.0667	1.4592	48.6721	0.0004	48.6725
179.1	1.4562	48.659	0.0004	48.6594
179.1333	1.4598	48.7773	0	48.7773

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
179.1667	1.4549	48.7247	0.0004	48.7251
179.2	1.4569	48.7116	0.0017	48.7133
179.2333	1.4572	48.7247	0	48.7247
179.2667	1.4582	48.7247	0.0004	48.7251
179.3	1.4628	48.6721	0.0017	48.6739
179.3333	1.4572	48.7642	0.0017	48.7659
179.3667	1.4572	48.7905	0	48.7905
179.4	1.4575	48.7116	0.0004	48.712
179.4333	1.4608	48.7247	0.0004	48.7251
179.4667	1.4579	48.7116	0	48.7116
179.5	1.4562	48.7773	0.0004	48.7777
179.5333	1.4552	48.7379	0.0017	48.7396
179.5667	1.4585	48.6195	0.0004	48.6199
179.6	1.4598	48.7642	0.0004	48.7646
179.6333	1.4562	48.5801	0.0017	48.5818
179.6667	1.4602	48.7247	0.0017	48.7265
179.7	1.4582	48.7379	0	48.7379
179.7333	1.4565	48.6721	0.0017	48.6739
179.7667	1.4598	48.7247	0.0004	48.7251
179.8	1.4575	48.7773	0	48.7773
179.8333	1.4595	48.7773	0.0004	48.7777
179.8667	1.4602	48.6327	0.0004	48.6331
179.9	1.4549	48.659	0	48.659
179.9333	1.4562	48.6195	0.0004	48.6199
179.9667	1.4546	48.7642	0.0004	48.7646
180	1.4572	48.6984	0.0004	48.6988
180.0333	1.4598	48.6327	0.0017	48.6344
180.0667	1.4421	48.6984	0	48.6984
180.1	1.4111	48.7247	0.0004	48.7251
180.1333	1.3792	48.6458	0.0004	48.6462
180.1667	1.3476	48.6327	0.0004	48.6331
180.2	1.3242	48.4749	0.0017	48.4766
180.2333	1.2561	48.3565	0.0017	48.3583
180.2667	1.1784	48.225	0.0004	48.2254
180.3	1.106	48.133	0.0004	48.1334
180.3333	1.0412	47.87	0	47.87
180.3667	0.973	47.5938	0.0017	47.5956
180.4	0.9125	47.3309	0.0017	47.3326
180.4333	0.8572	47.0547	0.0004	47.0551
180.4667	0.8026	46.6997	0.0017	46.7014
180.5	0.7552	46.2789	0	46.2789
180.5333	0.7094	45.9633	0	45.9633
180.5667	0.6637	45.5425	0.0017	45.5442



Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
180.6	0.6265	45.0822	0	45.0822
180.6333	0.5876	44.7009	0.0004	44.7013
180.6667	0.5501	44.2144	0.0004	44.2148
180.7	0.5211	43.7147	0.0004	43.7151
180.7333	0.4872	43.2544	0.0017	43.2562
180.7667	0.4586	42.7679	0.003	42.7709
180.8	0.429	42.2551	0	42.2551
180.8333	0.4059	41.7554	0	41.7554
180.8667	0.3816	41.2031	0	41.2031
180.9	0.3589	40.7034	0.0004	40.7038
180.9333	0.3385	40.1774	0.0004	40.1778
180.9667	0.3168	39.5988	0.0017	39.6005
181	0.298	39.0991	0.0004	39.0995
181.0333	0.2802	38.5205	0.0017	38.5223
181.0667	0.2618	37.9025	0.003	37.9055
181.1	0.2453	37.4028	0.0017	37.4045
181.1333	0.2285	36.7979	0.0017	36.7997
181.1667	0.2193	36.2851	0	36.2851
181.2	0.2055	35.6144	0.0004	35.6149
181.2333	0.1907	35.1016	0.0017	35.1033
181.2667	0.1805	34.4441	0.0004	34.4445
181.3	0.1703	33.9444	0.0017	33.9462
181.3333	0.1607	33.2738	0	33.2738
181.3667	0.1522	32.6426	0.0004	32.643
181.4	0.14	32.0772	0.0017	32.0789
181.4333	0.1318	31.4197	0.0004	31.4201
181.4667	0.1219	30.92	0.0004	30.9204
181.5	0.1133	30.302	0.0004	30.3024
181.5333	0.1091	29.776	0.0017	29.7777
181.5667	0.1005	29.1842	0.0004	29.1846
181.6	0.0966	28.553	0.0004	28.5535
181.6333	0.0864	27.9219	0.0004	27.9223
181.6667	0.0811	27.409	0	27.409
181.7	0.0765	26.8304	0.0017	26.8322
181.7333	0.0689	26.2913	0	26.2913
181.7667	0.0607	25.7127	0.0017	25.7144
181.8	0.0607	25.121	0.0004	25.1214
181.8333	0.0534	24.5818	0.0004	24.5822
181.8667	0.0472	23.9769	0.0004	23.9774
181.9	0.0459	23.4115	0	23.4115
181.9333	0.0436	22.8329	0	22.8329
181.9667	0.0386	22.2543	0.0017	22.2561
182	0.0311	21.7152	0.0017	21.7169

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
182.0333	0.034	21.2023	0.0004	21.2028
182.0667	0.0258	20.5843	0.0004	20.5847
182.1	0.0232	20.0846	0.0004	20.085
182.1333	0.0248	19.4929	0.0004	19.4933
182.1667	0.0205	18.9406	0.0004	18.941
182.2	0.0186	18.3883	0.0004	18.3887
182.2333	0.0172	17.8623	0.0004	17.8627
182.2667	0.0116	17.3363	0.0017	17.3381
182.3	0.0074	16.8761	0	16.8761
182.3333	0.0047	16.258	0.0004	16.2585
182.3667	0.0074	15.8241	0.0017	15.8258
182.4	0.0034	15.3639	0.0004	15.3643
182.4333	-0.0022	14.851	0	14.851
182.4667	0.0018	14.325	0.0004	14.3255
182.5	-0.0009	13.8516	0.0004	13.8521
182.5333	-0.0042	13.3783	0.0004	13.3787
182.5667	-0.0061	12.8917	0.0004	12.8921
182.6	-0.0078	12.4315	0	12.4315
182.6333	-0.0088	12.037	0.0017	12.0387
182.6667	-0.0088	11.603	0.0004	11.6035
182.7	-0.0081	11.1034	0.0017	11.1051
182.7333	-0.0081	10.6957	0.0017	10.6974
182.7667	-0.0104	10.2749	0.0017	10.2767
182.8	-0.015	9.8673	0.0004	9.8677
182.8333	-0.0157	9.4991	0.0004	9.4995
182.8667	-0.0176	9.1309	0.0004	9.1313
182.9	-0.017	8.7364	0.0004	8.7368
182.9333	-0.0176	8.3682	0.0017	8.3699
182.9667	-0.0183	8.0263	0.0004	8.0267
183	-0.0196	7.6844	0.0004	7.6848
183.0333	-0.0176	7.3294	0.0044	7.3337
183.0667	-0.0183	7.0401	0.0017	7.0418
183.1	-0.0216	6.6982	0.0004	6.6986
183.1333	-0.02	6.4483	0.0004	6.4488
183.1667	-0.0242	6.1328	0.0004	6.1332
183.2	-0.0252	5.9092	0.0004	5.9096
183.2333	-0.0223	5.6331	0.0004	5.6335
183.2667	-0.0232	5.3701	0.0004	5.3705
183.3	-0.0249	5.1071	0.0004	5.1075
183.3333	-0.0216	4.8572	0	4.8572
183.3667	-0.0239	4.6468	0.0004	4.6473
183.4	-0.0255	4.4364	0.0004	4.4369
183.4333	-0.0269	4.1997	0.0017	4.2015

Areva NP Inc.

Project No. G101276459SAT-001B bottom

October 21, 2013

Time (min)	Ch 1 dP (psi)	Ch 2 High Flow (LPM)	Ch 3 Low Flow (LPM)	Total Flow (LPM)
183.4667	-0.0269	4.0551	0.0004	4.0555
183.5	-0.0242	3.8447	0.0017	3.8464
183.5333	-0.0255	3.6869	0.0004	3.6873
183.5667	-0.0249	3.4897	0.0004	3.4901
183.6	-0.0262	3.3582	0	3.3582
183.6333	-0.0288	3.2004	0.0004	3.2008
183.6667	-0.0242	3.0557	0.0004	3.0561
183.7	-0.0315	0	0.0004	0.0004
183.7333	-0.0295	0.005	0.0017	0.0067
183.7667	-0.0275	0.005	0.0004	0.0054
183.8	-0.0255	0	0	0
183.8333	-0.0265	0.0181	0.0017	0.0199
183.8667	-0.0282	0.005	0.0004	0.0054

## APPENDIX C

### Photographs















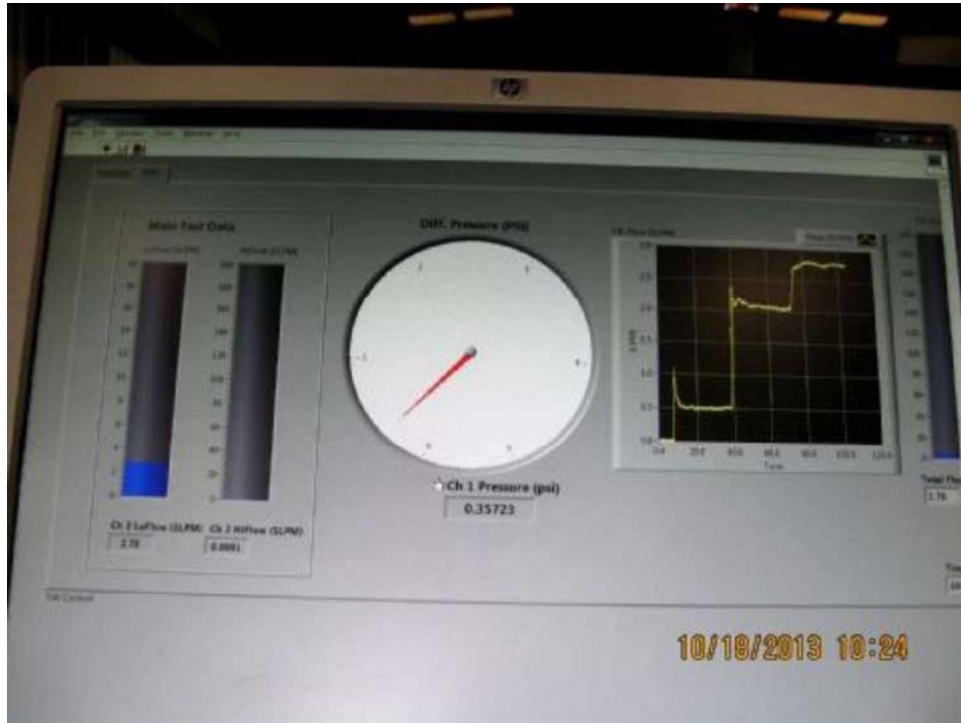




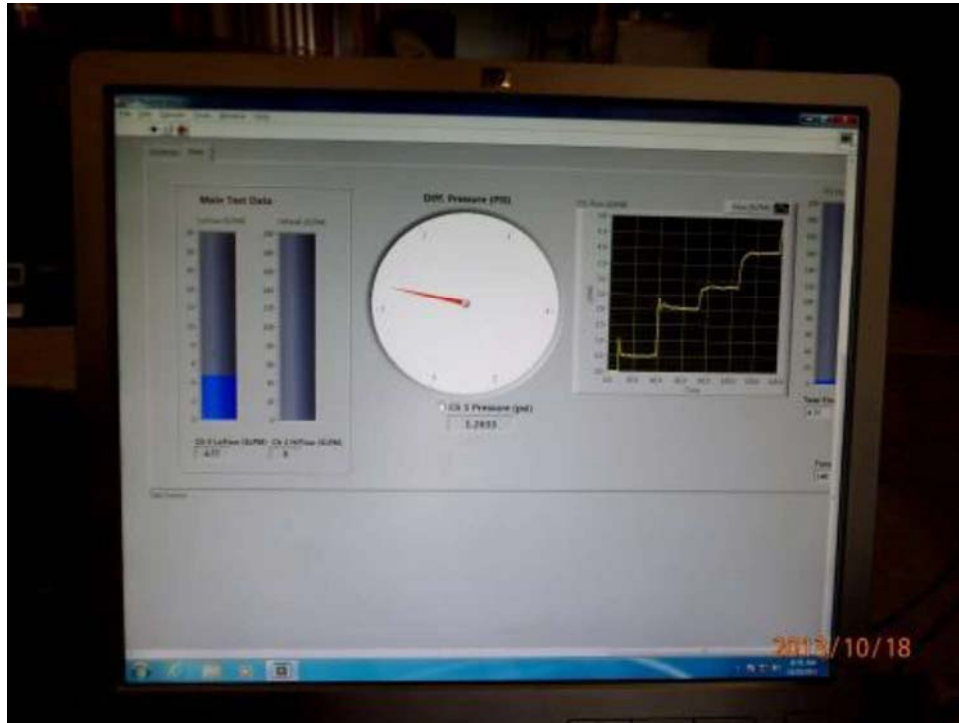
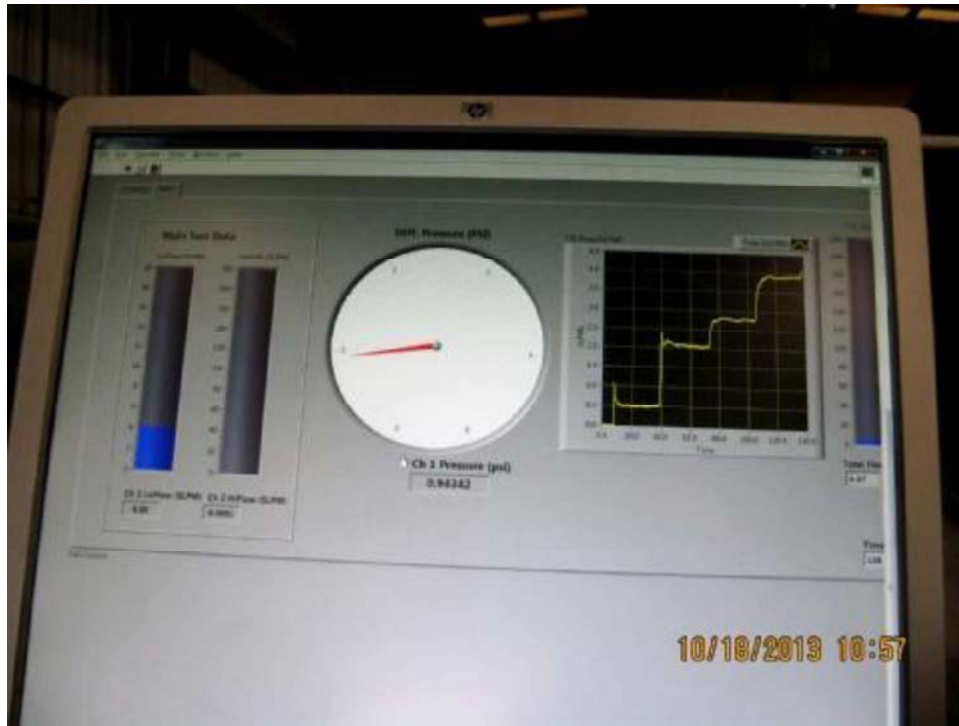


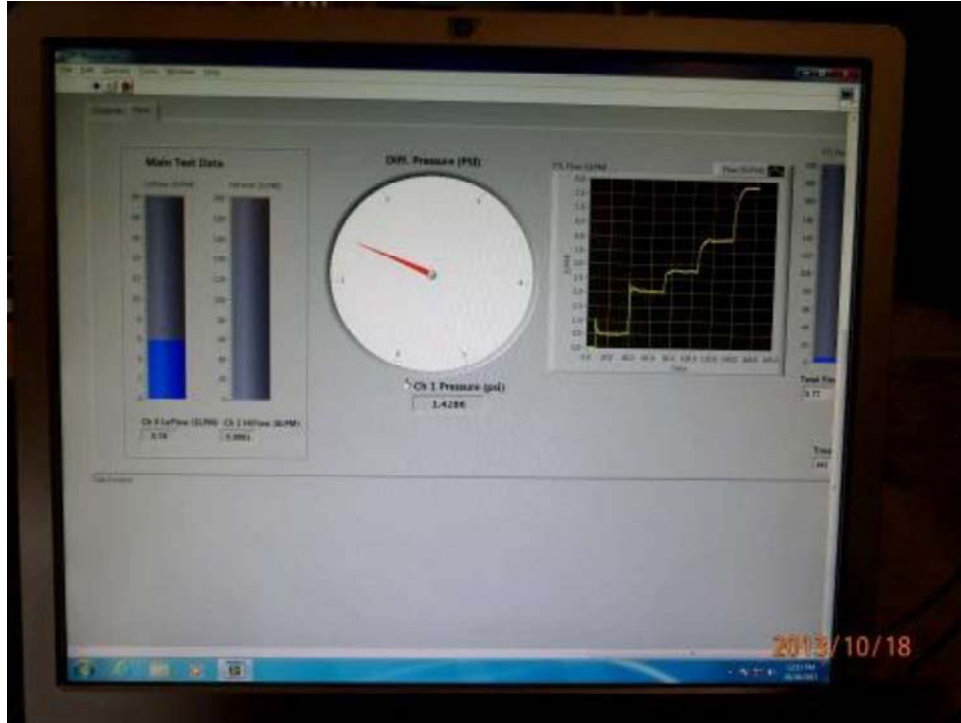




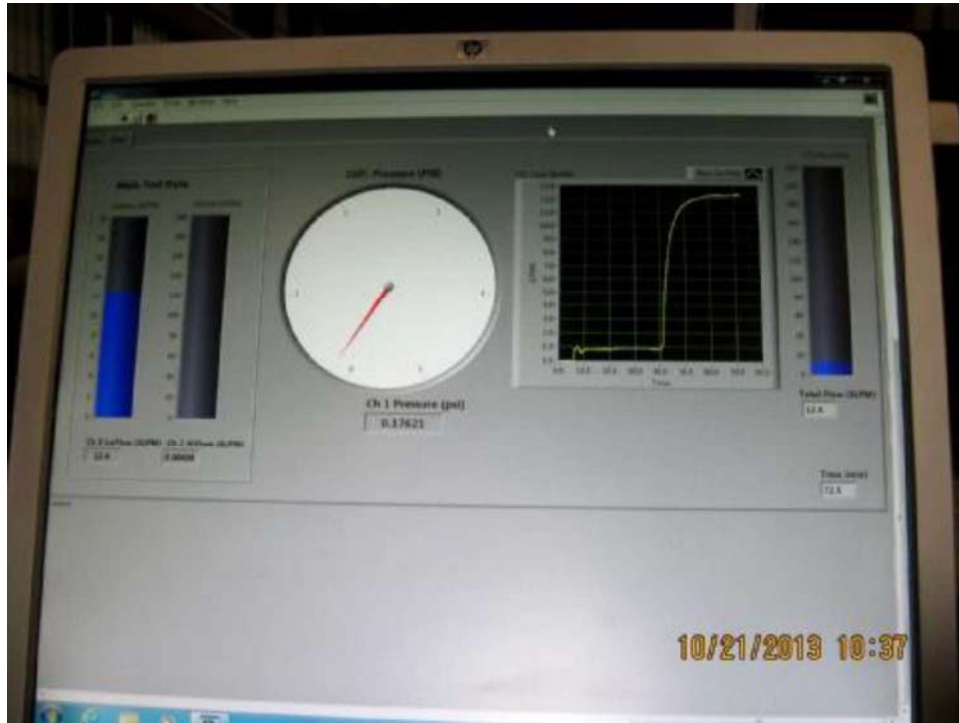
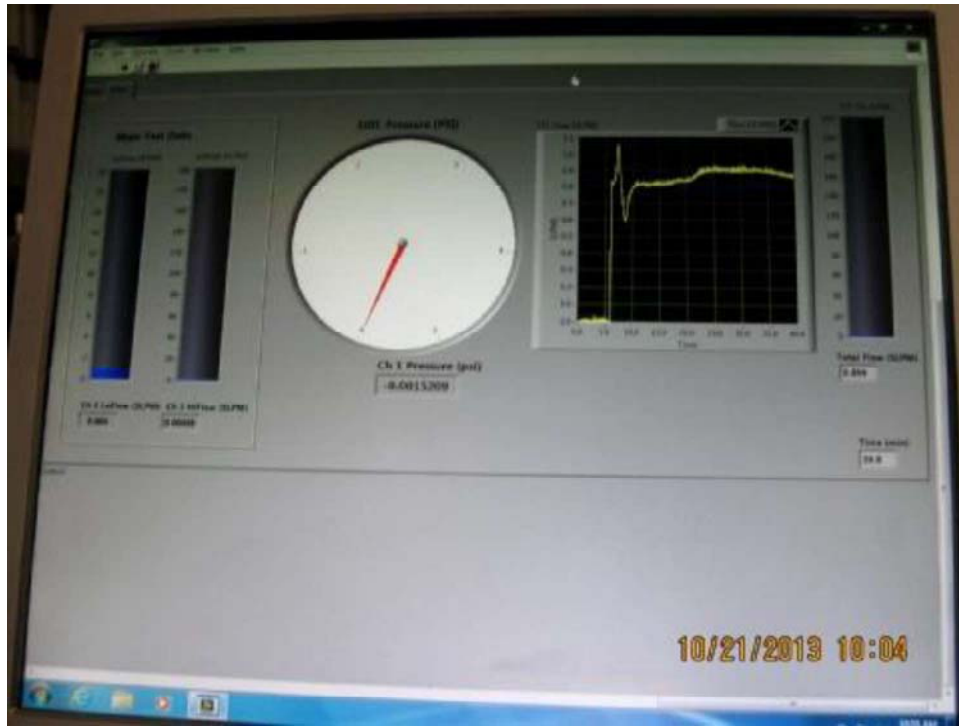


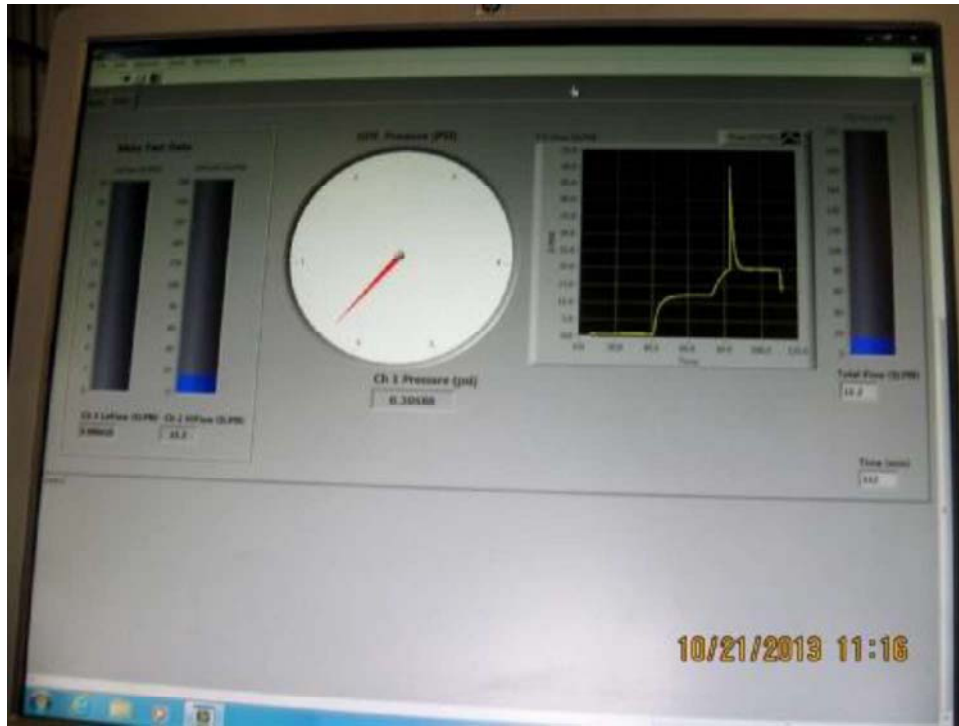


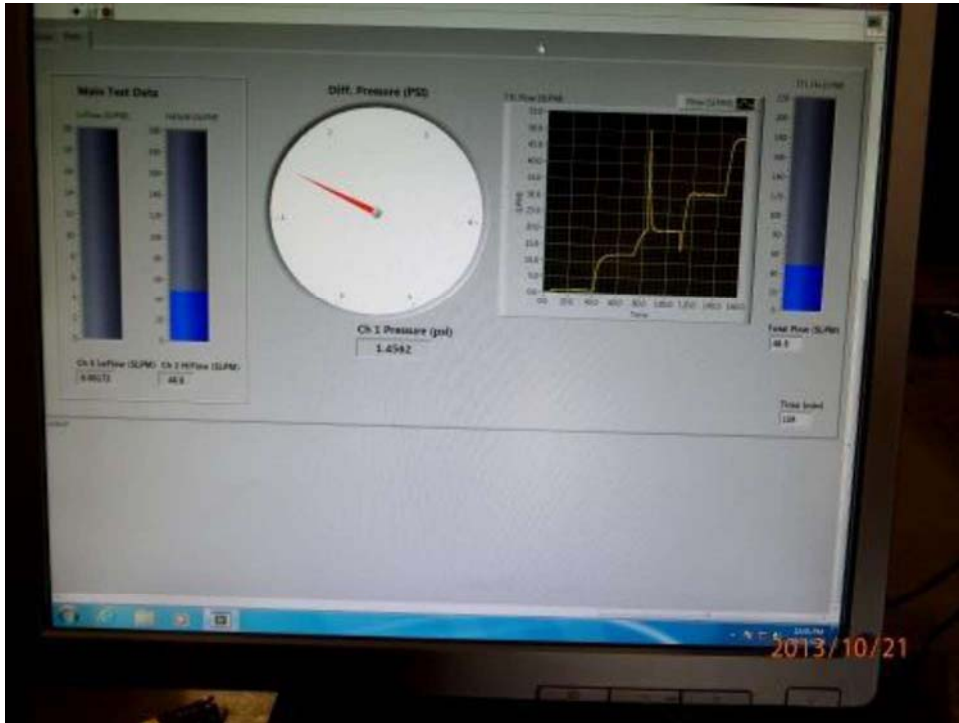
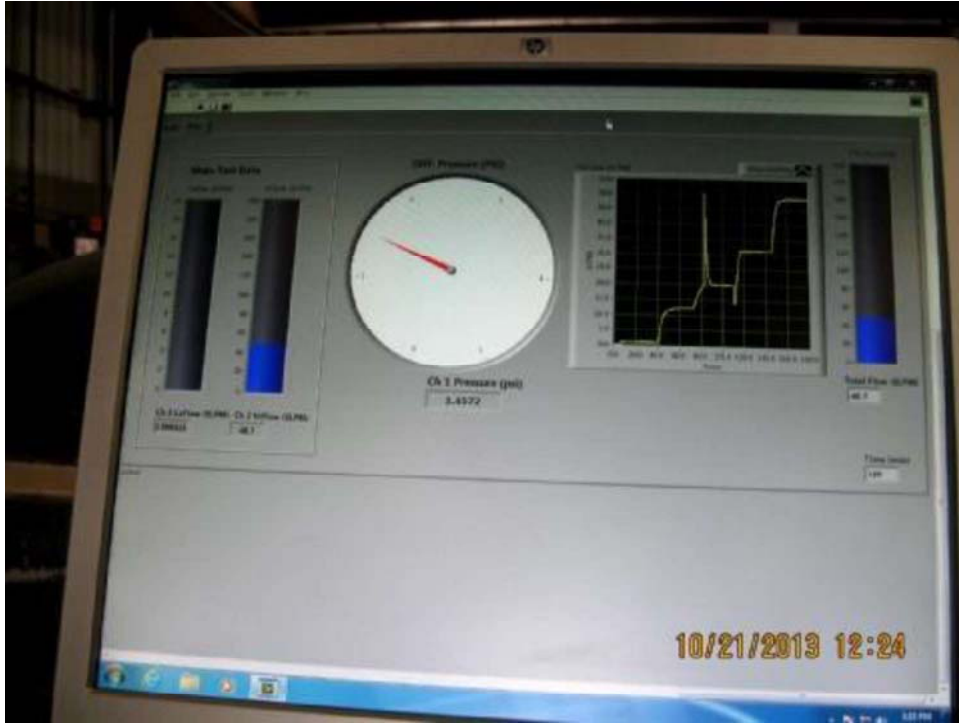


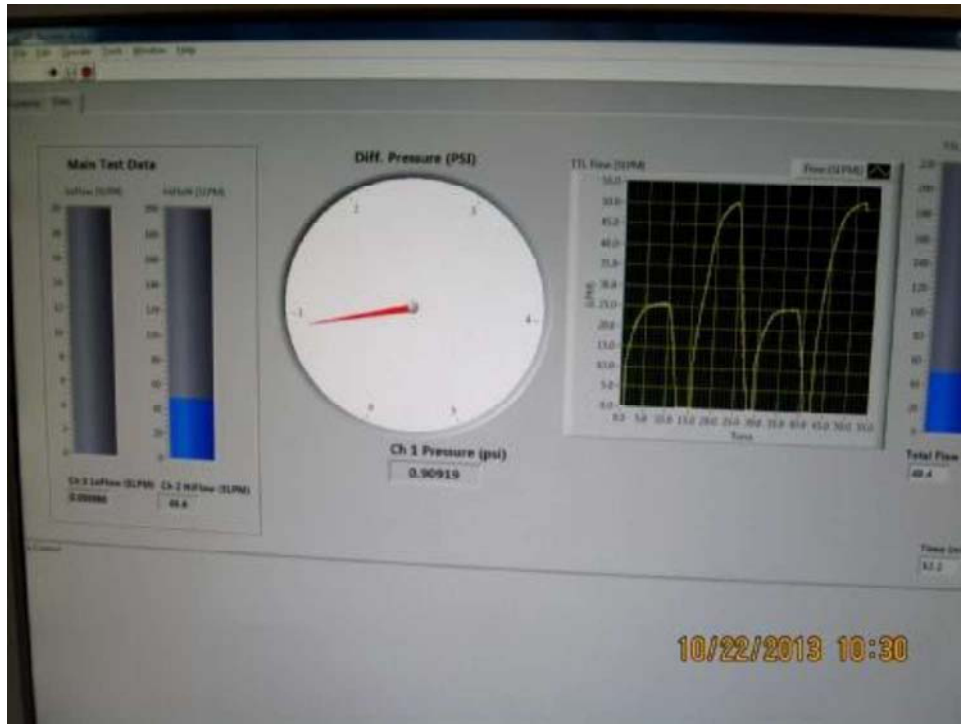


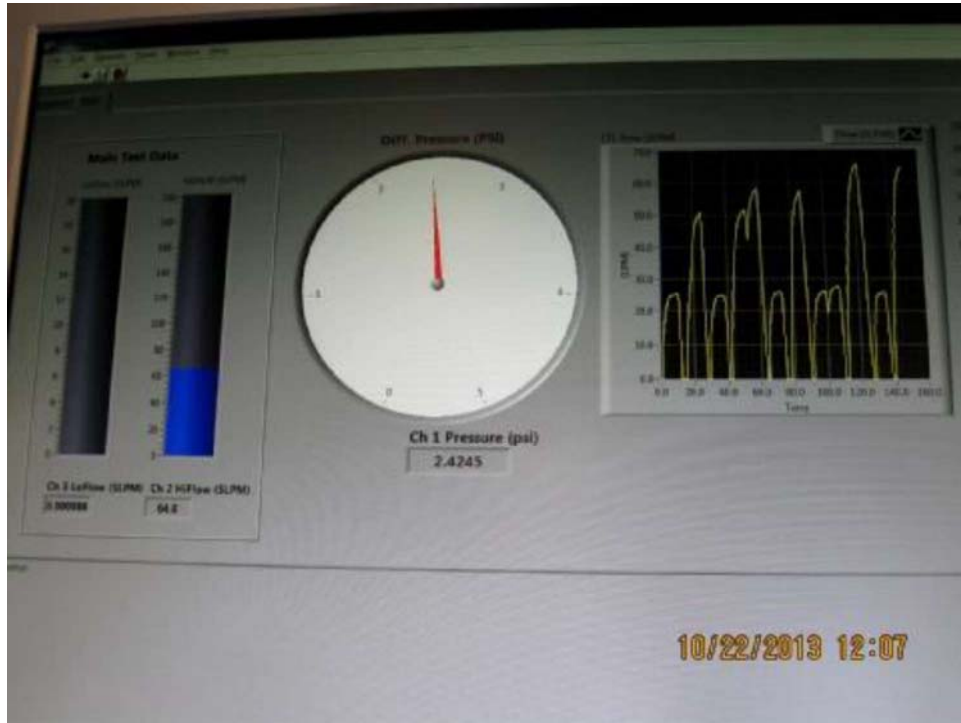
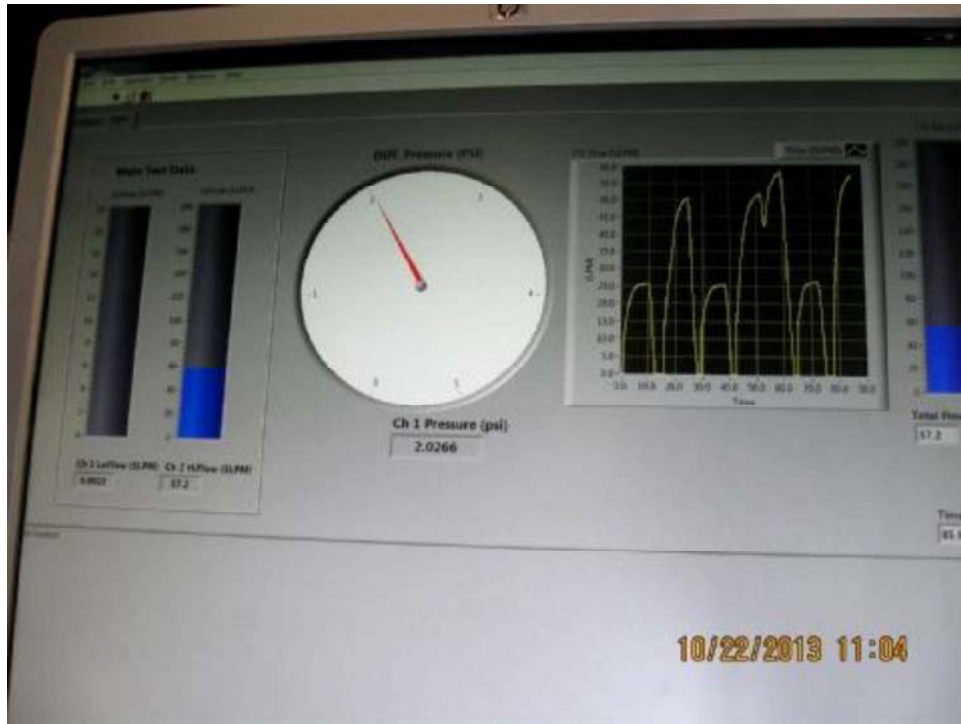














## APPENDIX D

### Test Plan

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20004-019 (11/20/2012)



## AREVA NP Inc.

### Engineering Information Record

Document No.: 51 - 9204218 - 003 |

#### Detailed Test Plan for Conducting MOX Pressure Test 6



Mike Dey  
Staff Engineer



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20004-019 (11/20/2012)

Document No.: 51-9204218-003

Detailed Test Plan for Conducting MOX Pressure Test 6

- Safety Related?  YES  NO
- Does this document establish design or technical requirements?  YES  NO
- Does this document contain assumptions requiring verification?  YES  NO
- Does this document contain Customer Required Format?  YES  NO

Signature Block

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A designates Approver/RTM – Verification of Reviewer Independence

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Name / Title	Date

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**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 1-19), Appendix A (3 pages), Appendix B (4 pages), Appendix C (4 pages), Appendix D (2 pages), for a total of 32 pages.
001	Page 17	Deleted Section 9.2.1 as this step is unnecessary for the testing equipment being used.
001	General	This document contains the main body of the report (pages 1-19), Appendix A (3 pages), Appendix B (4 pages), Appendix C (4 pages), Appendix D (2 pages), for a total of 32 pages.
002	Section 2 and Appendix B Section A-A and B-B	Clarified various aspects of sleeve lengths and boot seal assembly configurations to be included in this test plan. Other minor changes throughout the document for formatting and page break considerations.
002	Appendix C	Modified materials on Intertek BOM including pipe sleeves to be used for testing and added lugs for pipe sleeves.
002	General	This document contains the main body of the report (pages 1-19), Appendix A (3 pages), Appendix B (4 pages), Appendix C (5 pages), Appendix D (2 pages), for a total of 33 pages.
003	General	Removed revision level "latest revision" from 01-9198306 throughout document, and added revision level 003 in Section 12.0.
003	General	Changed Qsil to QSil throughout, and correct minor typographical errors.
003	Section 11	Removed event log from test report requirements.
003	Section 12	Updated document revisions.
003	Appendix A	Corrected sleeve height in Section B-B.
003	Appendix B	Added requirement for sleeve/elastomer adherence caulk.
003	Appendix C	Corrected material quantities in BOM.

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**ACRONYMS**

CGD	Commercial Grade Dedication
CGI	Commercial Grade Item
IROFS	Items Relied On For Safety
MOX	Mixed Oxide
MFFF	Mixed Oxide Fuel Fabrication Facility
QL	Quality Level
SSC	Structures, Systems and Components
w.g.	Water Gauge

Penetration Seal Materials

DC-170	Dow Corning Sylgard® 170 Silicone Elastomer
QSiil 5558MC	Quantum Silicones QSiil 5558MC Silicone Elastomer
SF-150NH	Promatec SF-150NH High-Density Silicone Elastomer



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### Detailed Test Plan for Conducting MOX Pressure Test 6

#### 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. Pressure testing is one type of qualification testing that needs to be performed in order to demonstrate the pressure retaining capability of MOX penetration seal designs. The data collected during pressure testing is needed to determine acceptable levels of leakage to maintain the necessary pressure differentials between confinement zones within the MFFF under various conditions, such as normal operation or inadvertent clean agent discharge. Other types of qualification testing, such as fire testing and testing for seismic qualification 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 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 Pressure Test 6. 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 pressure testing efforts.

This detailed test plan also describes the procurement plan for materials associated with penetration seal pressure test 6 and identifies the entities responsible for procuring the various components of the test assemblies 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 assemblies and links quality requirements in the AREVA QA program to customer/project quality requirements.

#### 2.0 OBJECTIVE

The primary objective of this test plan is to evaluate the pressure resistance capability of silicone rubber boot assemblies when installed to seal the opening created by a pipe passing through a sleeve (with various sleeve configurations) at the air pressure increments above atmospheric pressure provided in Section 9.2.

The specific configurations to be tested are 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 there will be four penetrations, two (2) 12" diameter openings, and two 16" x 16" blockouts. Details for the four penetrations are provided in Section 2.2. Three of the penetrations will be unlined (bare concrete) and one will be steel lined (cast in place 12" diameter pipe). The test deck will be horizontally oriented with a hemispherical 72" diameter steel pressure vessel mounted on each side of the precast openings in the slab.

Additionally, most of the openings (penetrations) in the MOX facility have been cast with a 3/4" 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

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over non-beveled openings. Therefore, for the purposes of the penetration seal test program, the bevel feature will not be included for pressure tests covered in this test plan.

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

**2.2 Test Description**

There are four openings to be sealed and tested in Pressure Test 6.

- Penetration P1: This penetration is to be a round 12" diameter precast (or core-drilled) opening with a 16 gauge galvanized sheet metal sleeve sized to fit the precast opening. The sheet metal sleeve shall be an approximately 18" long and installed such that the sleeve extends approximately 3" on both sides of the test slab. The sheet metal sleeve shall be fastened to the concrete opening in accordance with AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5]. An 8" diameter schedule 40 carbon steel pipe will pass through the sleeve. The pipe will be capped on at least one side or fitted with a welded cover plate (Note: caps and/or cover plates are construction aids only and are not being qualified by this seismic pressure test). The cap/welded cover plate shall be made air tight, so that any leakage during the test must pass through the seal assembly and not internal to the pipe. The gap between the sleeve and the pipe will be sealed using a silicone rubber boot assembly as described in AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5]. The annular space between the pipe and the sleeve is to be filled full slab depth (12") using Unifrax Fiberfrax® Durablanket® S.
- Penetration P2: This penetration is to be a 16"x16" square precast opening. A 16 gauge 12" diameter galvanized sheet metal sleeve (approximately 14" long) shall be sealed in place using an eight (8) inch thick seal of half Dow Corning Sylgard® 170 Silicone Elastomer (DC-170) and half Quantum Silicones QSi1 5558MC Silicone Elastomer (QSi1 5558MC) with no permanent damming installed in the penetration. The sleeve shall be situated such that the sleeve extends approximately 3" beyond the test slab on the top side of the barrier. The sheet metal sleeve shall be fabricated and installed in accordance with AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5]. The division of penetration seal materials will be located within the opening as shown in Appendix B. An 8" diameter schedule 40 carbon steel pipe will pass through the sleeve. The pipe will be capped on at least one side or fitted with a welded cover plate (Note: caps and/or cover plates are construction aids only and are not being qualified by this seismic pressure test). The cap/welded cover plate shall be made air tight, so that any leakage during the test must pass through the seal assembly and not internal to the pipe. The gap between the sleeve and the pipe will be sealed using a silicone rubber boot assembly as described in AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5]. The annular space between the pipe and the sleeve is to be filled full slab depth (12") using Unifrax Fiberfrax® Durablanket® S.
- Penetration P3: This penetration is to be a 16"x16" square precast opening with a 16 gauge 8" diameter galvanized sheet metal sleeve (approximately 14" long) sealed in place with an eight (8) inch thick Promatec SF-150NH High-Density Silicone Elastomer (SF-150NH) seal with no permanent damming installed in the penetration. The sleeve shall be situated such that the sleeve extends approximately 3" beyond the test slab on the top side of the barrier. The sheet metal sleeve shall be fabricated and installed in accordance with AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5]. A 4" diameter schedule 40 carbon steel pipe will pass through the sleeve. The pipe will be capped on at least one side or fitted with a welded cover plate (Note: caps and/or cover plates are construction aids only and are not being qualified by this seismic pressure test). The cap/welded cover plate shall be made air tight, so that any leakage during the test must pass

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though the seal assembly and not internal to the pipe. The gap between the sleeve and the pipe will be sealed using a silicone rubber boot assembly as described in AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5]. The annular space between the pipe and the sleeve is to be filled full slab depth (12") using Unifrax Fiberfrax® Durablanket® S.

- Penetration P4: This penetration is to be a round opening with a 12" diameter cast-in-place schedule 40 steel pipe sleeve (approximately 12" long). The pipe sleeve shall be cast in the slab such that the sleeve is flush with the slab on both sides of the barrier. A galvanized sheet metal sleeve extension (approximately 9" long) will be added to the top side of the opening to facilitate installation of a boot assembly. The sleeve extension shall extend approximately 3" above the slab and shall be installed in accordance with AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5]. An 8" diameter schedule 40 carbon steel pipe will pass through the sleeve. The 8" diameter pipe will be capped on at least one side or fitted with a welded cover plate (Note: caps and/or cover plates are construction aids only and are not being qualified by this seismic pressure test). The cap/welded cover plate shall be made air tight, so that any leakage during the test must pass through the seal assembly and not internal to the pipe. The gap between the cast-in place sleeve and the pipe will be sealed using a silicone rubber boot assembly as described in AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5]. The annular space between the pipe and the sleeve is to be filled full slab depth (12") using Unifrax Fiberfrax® Durablanket® S.

The penetrating items will be located within the openings as shown in Appendix B. One silicone rubber boot is to be installed to seal the openings between the pipe and the sleeve for each penetration. All four boots will be installed on the same side of the test deck and tested in accordance with Section 9.0.

### 2.3 Critical Characteristics and Limiting Parameters Being Tested

The specific critical characteristics and associated limiting parameters being tested for Pressure Test 6 are as follows:

This test will evaluate pressure resistance capabilities of the following:

- A silicone rubber boot seal assembly installed between a cast-in-place pipe sleeve fitted with a sheet metal sleeve extension and a carbon steel pipe. The use of a sleeve extension bounds cast in place sleeves where no extension is required.
- A silicone rubber boot seal assembly installed between a 16 gauge galvanized sheet metal sleeve adhered to the concrete opening using Dow Corning® 790 Silicone Building Sealant and a carbon steel pipe.
- A silicone rubber boot seal assembly installed between a 16 gauge galvanized sheet metal sleeve embedded in an (8) eight inch thick seal of half Dow Corning Sylgard® 170 Silicone Elastomer (DC-170) and half Quantum Silicones QSiil 5558MC Silicone Elastomer (QSiil 5558MC) with no permanent damming installed and a carbon steel pipe.
- A silicone rubber boot seal assembly installed between a 16 gauge galvanized sheet metal sleeve embedded in an (8) eight inch thick Promatec SF-150NH High-Density Silicone Elastomer (SF-150NH) seal with no permanent damming installed and a carbon steel pipe.
- Penetration seal material compatibility between DC-170 and QSiil 5558MC.

A successful test will substantiate the acceptability of these seal configurations to function as pressure seals when installed as an assembly around pipes and pipe sleeves.

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**3.0 ACCEPTANCE CRITERIA**

Pressure rated penetration seals at the MOX facility are required to remain "sufficiently leak-tight" at various pressure levels in order to support the functional goals of the various pressure rating requirements (i.e., confinement, suppression system clean agent concentration, fire induced pressure loads or HVAC pressure boundary loads). The term "sufficiently leak-tight" indicated that the penetration seal meets the predetermined acceptance criteria for the pressure level(s) being tested.

The acceptance criterion that constitutes "sufficiently leak-tight" varies based on the pressure requirement and the operating mode of the plant. For most pressure conditions and operating modes, "sufficiently leak-tight" means that the penetration seal assembly must remain in place but is allowed to leak (i.e., the penetration seal cannot become dislodged from the opening or otherwise catastrophically fail such that a substantial leakage path is created.)

Per MOX Services Calculation *Confinement Boundary Air Leakage Criteria* [Reference 12.1], penetration seals that function as confinement zone 3b boundary components must maintain a leakage rate less than 0.01 cfm/sq. ft. of penetration area when tested at a pressure that bounds C3b to non-C3b zone pressures during normal operating conditions.

Table 9-1 identifies the differential pressure levels (stages) for conducting pressure tests, as well as, the acceptance criteria in order to be considered "sufficiently leak-tight".

**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 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 Witness pressure tests if desired.

**4.2 AREVA**

- 4.2.1 Develop and revise (if necessary) this detailed 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 pressure testing facility and establish sub-contract agreements. The testing laboratory selected for performance of this 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.

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- 4.2.6 Notify MOX Services at least 10 days prior to test date to facilitate MOX Services decision to witness the pressure test.
- 4.2.7 Witness 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 pressure testing services in accordance with this test plan and verify that the testing equipment is properly calibrated.
- 4.3.5 Provide 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 pressure tests.
- 4.3.8 Generate final test reports in accordance with test plan requirements (Section 11.0).

#### 4.4 Other Subcontracted Entities

There are no other Subcontractors for this pressure test plan.

### 5.0 PROCUREMENT PLAN

This penetration seal 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 these penetration seal 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:*

1. *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*

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

1. Silicone Rubber Boot Material – Arlon Silicone Impregnated Fiberglass Fabric (56493F031)
2. Ideal Clamp 9/16" All Stainless Steel 64 Series
3. Unifrax Fiberfrax® Durablanket® S
4. Dow Corning® 732 Multi-Purpose Sealant
5. Dow Corning® 790 Silicone Building Sealant
6. Dow Corning Sylgard® 170 Silicone Elastomer (DC-170)
7. Quantum Silicones QSil 5558MC Silicone Elastomer (QSil 5558MC)
8. Promatec SF-150NH High-Density Silicone Elastomer (SF-150NH)

**5.2 Test Deck/Test Slab**

The test deck will be used to simulate a confinement zone or HVAC 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.

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The openings cast into the test deck will simulate certain features consistent with MOX penetrations (e.g., painted or coated interior finishes, beveled edges, etc.) as defined by the 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 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., pipe and sleeves) will be used in this pressure test to simulate MOX-specific plant commodities during the pressure test but are not considered an integral part of the penetration seal assemblies being tested. Therefore, the quality level of the penetrating items is **Non-safety**.

Penetrating items for this 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 manufacturers 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 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, 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).

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**7.3 Dimensioned Drawings**

All test articles shall conform to the dimensioned drawings supplied by AREVA and contained in Appendix A & Appendix 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 & Appendix 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 AREVA Test Engineer) or noted by the QC Inspector (if correction is not required). Completion of this verification shall be documented as required by AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5].

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

QA/QC verification of penetration seal installations shall be documented as required by AREVA NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5].

**8.3 Pre-Test Verifications**

Prior to conducting the 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 NP Inc. Document 01-9198306, *Installation Instruction Manual for MOX Penetration Seal Test Program* [Reference 12.5].



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**9.0 PROCEDURE**

**9.1 Pressure Test Apparatus**

The pressure test apparatus to be used for these pressure tests 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 anticipated differential pressures, as they apply to MFFF penetration seal designs, are discussed in DCS01-BRA-DS-TRD-B-01365-0 [Reference 12.6]. Depending upon its location in the plant, a penetration seal may be subjected to differential pressures from one or more of the following sources:

- Clean agent suppression system discharge (inadvertent or in response to a fire)
- Normal HVAC operation in support of facility confinement zone separation
- Fire induced pressure
- HVAC pressure boundary

The full range of differential pressures under various conditions is identified in Calculations DCS01-XGA-DS-CAL-B-01105-0 [Reference 12.7], DCS01-ASI-DS-CAL-R-10552-0 [Reference 12.8], and DCS01-QJJ-DS-CAL-V-10421-0 [Reference 12.9].

The pressure levels specified in Table 9-1 are to be used in the pressure tests. These pressures are intended to bound a range of calculated differential pressures anticipated based on the various pressure conditions described above and detailed in the referenced calculations, with additional margin. The bounding differential pressures to be used for each penetration seal pressure test, the test hold time at each pressure, the acceptance criteria to be considered "sufficiently leak-tight", and the basis for each pressure, are identified in Table 9-1.

A hold time of 30 minutes has been established for each pressure level to ensure that sufficient time at pressure is maintained to; 1) confirm that no leakage occurs at that pressure, or 2) stabilize make up air and attain reasonably accurate leakage rate information for those configurations where leakage is detected.

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**Table 9-1: Differential Pressure Test Levels**

Test Stage	Differential Pressure (inch w.g.)	Required Hold Time (minutes)	Acceptance Criteria	Basis for the Selected Differential Pressure
1a	1.0	30	Leakage $\leq$ 0.01 cfm/sq. ft. of penetration area	Testing at this differential pressure bounds the 0.51 inches w.g. pressure for C3b to C2 areas during normal operation [Reference 12.9].
2a	5.0	30	Seal Remains In Place	Testing at this differential pressure bounds the 4.0 inches w.g. pressure anticipated as a result of clean agent suppression system discharge [Reference 12.7].
3a	10.0	30	Seal Remains In Place	Testing at this differential pressure bounds the 7.0 inches w.g. pressure used as the screening pressure cutoff for fire induced pressures [References 12.7 and 12.8] and some of the HVAC pressure boundaries [Reference 12.9].
4a	20.0	30	Seal Remains In Place	Testing at this differential pressure bounds all of the calculated fire induced pressures [Reference 12.8] and many of the HVAC pressure boundaries [Reference 12.9].
5a	40.0	30	Seal Remains In Place	Testing at this differential pressure bounds all of the HVAC pressure boundaries [Reference 12.9].
1b	1.0	30	Leakage $\leq$ 0.01 cfm/sq. ft. of penetration area	Testing at this differential pressure bounds the 0.51 inches w.g. pressure for C3b to C2 areas during normal operation [Reference 12.9].
2b	5.0	30	Seal Remains In Place	Testing at this differential pressure bounds the 4.0 inches w.g. pressure anticipated as a result of clean agent suppression system discharge [Reference 12.7].
3b	10.0	30	Seal Remains In Place	Testing at this differential pressure bounds the 7.0 inches w.g. pressure used as the screening pressure cutoff for fire induced pressures [References 12.7 and 12.8] and some of the HVAC pressure boundaries [Reference 12.9].
4b	20.0	30	Seal Remains In Place	Testing at this differential pressure bounds all of the calculated fire induced pressures [Reference 12.8] and many of the HVAC pressure boundaries [Reference 12.9].
5b	40.0	30	Seal Remains In Place	Testing at this differential pressure bounds all of the HVAC pressure boundaries [Reference 12.9].

Each test assembly shall be attached to the pressure test apparatus and subjected to the pressures identified in Table 9-1 as described below. For tests 1a – 5a the side of the test deck on which the boots have been installed shall be pressurized. Test Stages 1a – 5a shall be performed first in accordance with

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Sections 9.2.1 through 9.2.5 below. Following Test Stages 1a – 5a, the opposite side of the test deck shall be prepared for pressurization. For Test Stages 1b – 5b the side of the test deck with no boots installed shall be pressurized. Test Stages 1b – 5b shall be performed in accordance with Sections 9.2.1 through 9.2.5 below.

- 9.2.1 The test assembly shall be attached to the pressure test apparatus and subjected to air pressure tests at the select pressure levels identified in Table 9-1, beginning with the Stage 1 pressure of 1.0 inches w.g. Once this pressure has been obtained, the pressure shall be maintained for the hold time specified in Table 9-1. The maximum leakage rate observed during the hold time shall be recorded. If the leakage rate exceeds the acceptance criteria during Stage 1 testing, the time of failure shall be noted and the test shall be continued, since leakage alone does not constitute failure after Stage 1.
- 9.2.2 Once the designated hold time has been achieved, the pressure shall be increased to the next pressure level identified in Table 9-1 (Stage 2, then Stage 3, then Stage 4 and finally Stage 5) and held for the designated hold time. The maximum leakage rate observed during each hold time shall be recorded.
- 9.2.3 Following completion of Stage 5 pressure testing, the test may continue at the discretion of the AREVA test engineer and the testing laboratory manager in charge. Subsequent pressures, hold times and maximum leakage rates shall be recorded as directed by the AREVA test engineer.
- 9.2.4 If at any pressure level (or test stage) the penetration seal becomes dislodged from the openings or otherwise catastrophically fails, the 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 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 side of the penetration
- Integrity of seal and conditions on the 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 pressure tests.

### 10.0 DATA SYSTEMS

During the 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 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:

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- Date of test
- Location of test
- Description of test apparatus and test articles
- Calibration documentation for all data systems connected to the test apparatus
- Test procedures used
- Acceptance criteria
- Provide quality control records
- Results of the pressure test
- Color digital photographs of the test project
- 

**12.0 REFERENCES**

- 12.1 Shaw AREVA MOX Services Calculation DCS01-QJJ-DS-CAL-V-13312-0, *Confinement Boundary Air Leakage Criteria*
- 12.2 Shaw AREVA MOX Services Procedure PF9-1, 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 01-9198306-003, *Installation Instruction Manual for MOX Penetration Seal Test Program*
- 12.6 Shaw AREVA MOX Services Document DCS01-BRA-DS-TRD-B-01365-0, *Technical Requirements Document for MFFF Penetration Seals*
- 12.7 Shaw AREVA MOX Services Calculation DCS01-XGA-DS-CAL-B-01105-0, *BMF HVAC and Fire Induced Pressure Loads*
- 12.8 Shaw AREVA MOX Services Calculation DCS01-ASI-DS-CAL-R-10552-0, *Fire Induced Room Pressure Analysis*
- 12.9 Shaw AREVA MOX Services Calculation DCS01-QJJ-DS-CAL-V-10421-0, *Pressure Differentials Across Internal Barriers within the MOX Facility*

**Retrieval of Reference Documents**

References 12.1, 12.2, 12.6, 12.7, 12.8 and 12.9 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.

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**APPENDIX A: TEST DECK/TEST SLAB DRAWINGS**

The test deck (test slab) for Pressure Test 6 is depicted on page A-2.

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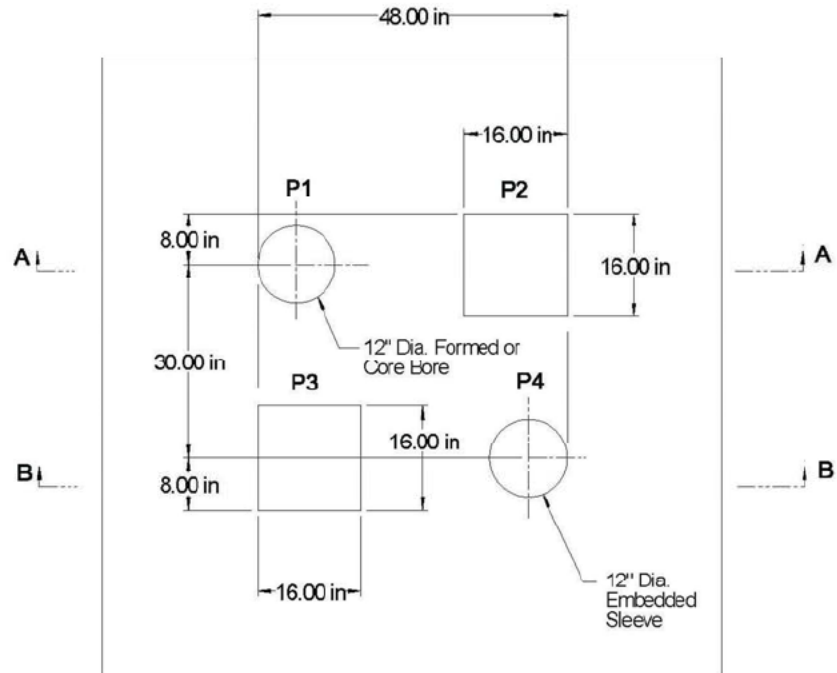


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Detailed Test Plan for Conducting MOX Pressure Test 6

Pressure Test P6 Test Deck

Pressure Test P6



Section Views are on  
Page A-3.

NOTES:

1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- 1/4"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC.
3. 12" EMBEDDED SLEEVE TO BE CAST IN PLACE WITH STEEL LUGS.

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**Section A-A**



**Section B-B**

NOTES:

1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- 1/4"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC.

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Detailed Test Plan for Conducting MOX Pressure Test 6

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**APPENDIX B: TEST PENETRATION DRAWINGS**

This appendix contains Test Penetration drawings. These drawings identify penetrating item locations within the test penetration, as well as, the penetration seal design for each test penetration.



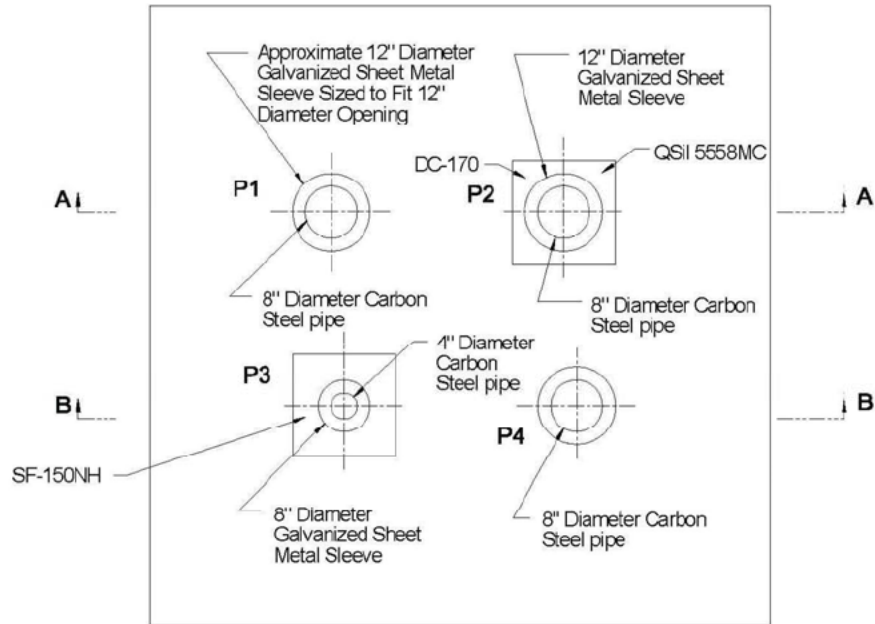
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Detailed Test Plan for Conducting MOX Pressure Test 6

**Pressure Test P6**



Section Views are on  
Pages B-3, and B-4.

NOTES:

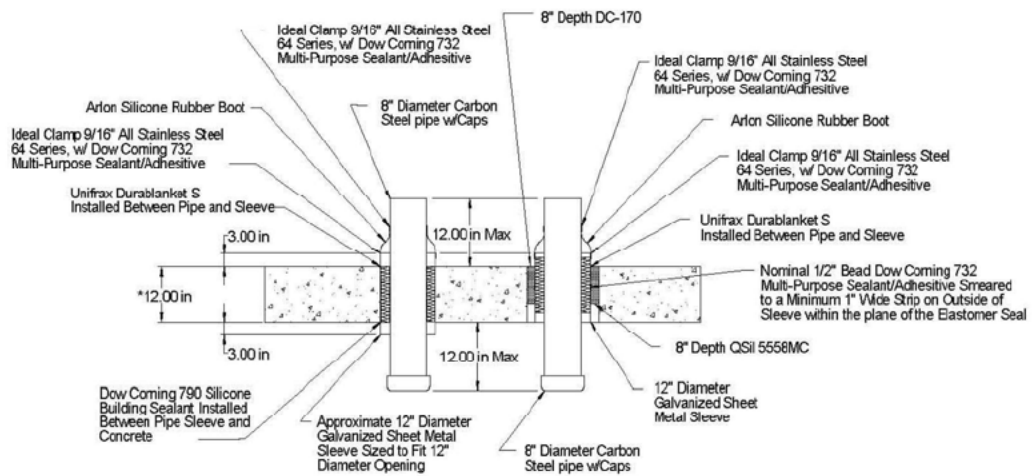
1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- 1/4"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC.
3. 12" EMBEDDED SLEEVE TO BE CAST IN PLACE WITH STEEL LUGS.

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Section A-A

NOTES

1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- 1/4"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC
3. BOOTS TO BE CLAMPED AND CALKED PER INSTALLATION INSTRUCTIONS

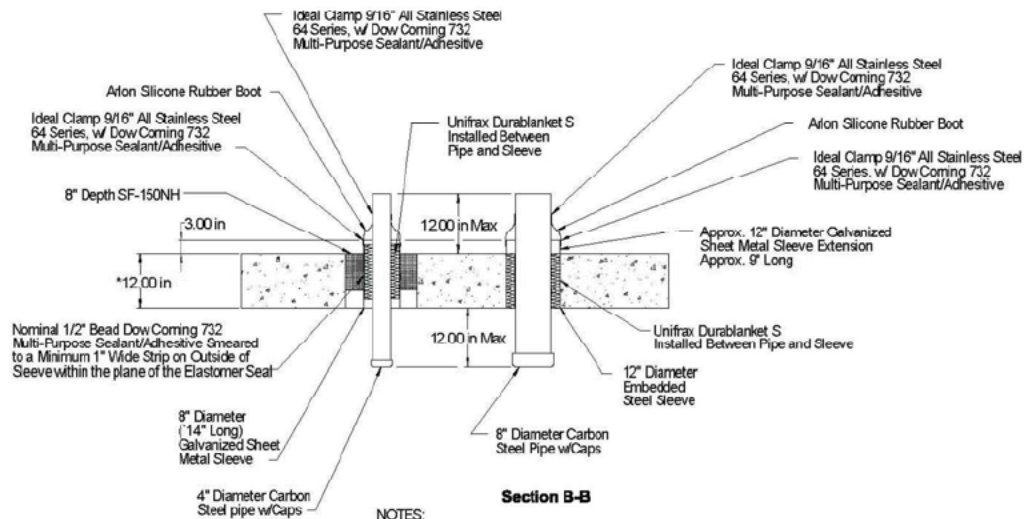


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**Section B-B**

**NOTES:**

1. TOLERANCE ON ALL SLAB DIMENSIONS IS +/- .14"
2. \* INDICATES DIMENSIONS TO BE VERIFIED BY AREVA QC
3. BOOTS TO BE CLAMPED AND CAULKED PER INSTALLATION INSTRUCTIONS



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Detailed Test Plan for Conducting MOX Pressure Test 6

**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.

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Detailed Test Plan for Conducting MOX Pressure Test 6

C.1 Table Bill of Materials for AREVA Supplied Items

Bill of Material for AREVA Supplied Items					
Item	Description	Part Number	Quantity	Units	Total
1	Arlon Silicone Impregnated Fiberglass Fabric	56493F031	1	Roll (38 Inch x 25 Yard)	1 Roll
2	Ideal – All Stainless Steel Clamp 64 Series (5.06 – 7.00 inches)	64104	1	Box	1 Box
3	Ideal – All Stainless Steel Clamp 64 Series (3.00 – 5.00 inches)	6472	1	Box	1 Box
4	Unifrax Fiberfrax® Durablanket® S – 6 lbs/cu. ft., 1" thick, 48" wide, 25 linear feet	764522000	1	Roll	1 Roll
5	Dow Corning® 732 Multi-Purpose Sealant	N/A	1	Case	1 Case
6	Dow Corning® 790 Silicone Building Sealant	N/A	1	Case	1 Case
7	Quantum Silicones QSII 5555MC Silicone Elastomer (50lb part A, 50lb part B, 100lb set)	N/A	1	Set	1 Set
8	Dow Corning Sygard® 170 Silicone Elastomer (50lb part A, 50lb part B, 100lb set)	N/A	1	Set	1 Set
9	Promatec SF-150NH High-Density Silicone Elastomer (50lb part A, 50lb part B, 100lb set)	N/A	2	Sets	2 Sets

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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				



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**C.3 Bill of Materials for Intertek Supplied Items**

Bill of Material for Intertek Supplied Items*					
Item	Description	Part Number	Quantity	Units	Total
1	Schedule 40 Steel Pipe Sleeve, 12" Diameter, 12' Length (Cast-in-Place)	N/A	1	Sleeve	1 Sleeve
2	Rolled 16 Gauge Galvanized Sheet Metal Sleeve, 8" Diameter with Minimum 2" Overlap at Seam (seam left un-connected), 14" Length	N/A	1	Sleeve	1 Sleeve
3	Rolled 16 Gauge Galvanized Sheet Metal Sleeve, 12" Diameter with Minimum 2" Overlap at Seam (seam left un-connected), 18" Length	N/A	1	Sleeve	1 Sleeve
4	8" Diameter Schedule 40 Carbon Steel Pipe (Need 3 @ 3'-0")	N/A	9	Ft.	9 Ft.
5	4" Diameter Schedule 40 Carbon Steel Pipe (Need 1 @ 3'-0")	N/A	3	Ft.	3 Ft.
6	Steel Pipe Caps for 8" Diameter Schedule 40 Carbon Steel Pipe	N/A	3	Caps	3 Caps
7	Steel Pipe Caps for 4" Diameter Schedule 40 Carbon Steel Pipe	N/A	1	Cap	1 Cap
8	Teflon Thread Seal Tape	N/A	1	Roll	1 Roll
9	Rolled 16 Gauge Galvanized Sheet Metal Sleeve, 12" Diameter with Minimum 2" Overlap at Seam (seam left un-connected), 9" Length	N/A	1	Sleeve Extension	1 Sleeve Extension



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Detailed Test Plan for Conducting MOX Pressure Test 6

Bill of Material for Intertek Supplied Items*					
Item	Description	Part Number	Quantity	Units	Total
10	Rolled 16 Gauge Galvanized Sheet Metal Sleeve, 12" Diameter with Minimum 2" Overlap at Seam (seam left un-connected), 14" Length	N/A	1	Sleeve	1 Sleeve
11	½" Diameter x 1-1/2" Long Bolts with Nuts (For use as lugs with sheet metal sleeves to be held in place by penetration seal material in P2 and P3)	N/A	12	Sets	12 Sets

\* 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, is the responsibility of Intertek.



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APPENDIX D: DESIGN VERIFICATION CHECKLIST

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AREVA		DESIGN VERIFICATION CHECKLIST		
Document Identifier 51 - 9204218 - 003				
Title Detailed Test Plan for Conducting MOX Pressure Test 6				
1.	Were the inputs correctly selected and incorporated into design or analysis?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
2.	Are assumptions necessary to perform the design or analysis activity 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.	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> N/A
3.	Are the appropriate quality and quality assurance requirements specified? Or, for documents prepared per AREVA NP Inc. procedures, have the procedural requirements been met?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
4.	If the design or analysis cites or is required to cite requirements or criteria 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?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
5.	Have applicable construction and operating experience been considered?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
6.	Have the design interface requirements been satisfied?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
7.	Was an appropriate design or analytical method used?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
8.	Is the output reasonable compared to inputs?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
9.	Are the specified parts, equipment and processes suitable for the required application?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
10.	Are the specified materials compatible with each other and the design environmental conditions to which the material will be exposed?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
11.	Have adequate maintenance features and requirements been specified?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> N/A
12.	Are accessibility and other design provisions adequate for performance of needed maintenance and repair?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> N/A
13.	Has adequate accessibility been provided to perform the in-service inspection expected to be required during the plant life?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> N/A
14.	Has the design properly considered radiation exposure to the public and plant personnel?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> N/A
15.	Are the acceptance criteria incorporated in the design documents sufficient to allow verification that design requirements have been satisfactorily accomplished?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
16.	Have adequate preoperational and subsequent periodic test requirements been appropriately specified?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> N/A
17.	Are adequate handling, storage, cleaning and shipping requirements specified?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
18.	Are adequate identification requirements specified?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
19.	Is the document prepared and being released under the AREVA NP Inc. Quality Assurance Program? If not, are requirements for record preparation review, approval, retention, etc., adequately specified?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A

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Document No.: 51-9204218-003

Detailed Test Plan for Conducting MOX Pressure Test 6

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	<b>DESIGN VERIFICATION CHECKLIST</b>		
Document Identifier 51 - 9204218 - 003			
Comments on the preceding responses: None			
Verified By: <u>Derrick V. Risner</u>		<u>10/3/2013</u>	
(First, MI, Last)	Printed / Typed Name	Signature	Date



## 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 fire test, the following AREVA documents contain information associated with materials that underwent the base-lining process. These documents establish material critical characteristics as a baseline for future Commercial Grade Dedication.

- AREVA Document 51-9212659-000, "Dow Corning Sylgard 170 Silicone Elastomer Critical Characteristics"
- AREVA Document 51-9212663-000, "Quantum Silicones QSil 5558MC Silicone Elastomer Critical Characteristics"
- AREVA Document 51-9212666-000, "Dow Corning 732 Multi-Purpose Sealant Critical Characteristics"
- AREVA Document 51-9212668-000, "Dow Corning 790 Silicone Building Sealant Critical Characteristics"
- AREVA Document 51-9212669-000, "Arlon 56493F031 Critical Characteristics"
- AREVA Document 51-9212670-000, "Unifrax Durablanket S Critical Characteristics"
- AREVA Document 51-9212671-000, "Ideal Tridon Series 64 Hose Clamp Critical Characteristics"

These documents are available from the AREVA Records Management System or the MOX Records Management System.

The SF-150NH High Density Silicone Elastomer seal material used in this test was not base-lined to establish critical characteristics because this material is proprietary to PCI Promatec; is only available from PCI Promatec; and can be procured Nuclear Safety Related (i.e., MOX QL-1) from PCI Promatec. Therefore, future procurements of this product can be handled such that no Commercial Grade Dedication is required.

## APPENDIX F

### Quality Documents



Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.3 Quality Verification for Installation of Flexible Boot Seals**

Page 1 of 4

01-9198306-F03 (QC-F03)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P1</u>	[Redacted] <u>9-23-13</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	[Redacted] <u>9-25-13</u>
10.2.4	Record the lot number for the boot material Lot Number: <u>080212Z7F</u>	[Redacted] <u>9-25-13</u>
QC	Verify the penetration is clean and free of dirt, oil, and any other foreign materials. Ensure the bonding surfaces of the sleeve and penetrating pipe are free of any burrs and sharp edges.	<u>*</u>
10.3.6	Record the lot number for the Durablanket® S Lot Number: _____	<u>*</u>
QC	Verify the Durablanket S material has been installed in accordance with the test plan.	<u>*</u>
10.3.8	Record the material type, lot number and expiration date for the sealant Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-29-15</u>	<u>*</u>
10.3.11.6	Record clamp model numbers and quantities used at pipe Clamps at Pipe: <u>2E6A720</u>	<u>*</u>
10.3.13.6	Record clamp model numbers and quantities used at pipe Clamps at Sleeve: _____	<u>*</u>
QC	Verify that the completed seal assembly is in accordance with Section 10.0 of this document and the test plan design. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>*</u>
<b>Comments (can be continued on back):</b> <u>* Installation manual revised continued on page 2.</u>		
Penetration Seal Assembly Complete:	[Redacted] A Quality Control	<u>10-9-13</u> Date
Penetration Ready for Testing:	[Redacted] AREVA Test Engineer	<u>10/18/13</u> Date





Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.3 Quality Verification for Installation of Flexible Boot Seals**

Page 2 of 4

01-9198306-F03 (QC-F03)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P1</u>	<u>*</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	<u>*</u>
10.2.4	Record the lot number for the boot material Lot Number: _____	<u>*</u>
QC	Verify the penetration is clean and free of dirt, oil, and any other foreign materials. Ensure the bonding surfaces of the sleeve and penetrating pipe are free of any burrs and sharp edges.	<u>[Redacted] / 10-3-13</u>
10.3.6	Record the lot number for the Durablanket® S Lot Number: <u>32039 764521000</u> <i>NOTE, 2 1/2 LAYERS BLANKET.</i>	<u>[Redacted] 10-8-13</u>
QC	Verify the Durablanket S material has been installed in accordance with the test plan.	<u>[Redacted] 10/8/13</u>
10.3.8	Record the material type, lot number and expiration date for the sealant Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-29-15</u>	<u>[Redacted] 10-9-13</u>
10.3.11.6	Record clamp model numbers and quantities used at pipe Clamps at Pipe: <u>2 @ 64720</u>	<u>[Redacted] 10-9-13</u>
10.3.13.6	Record clamp model numbers and quantities used at pipe Clamps at Sleeve: <u>2 @ 64104</u>	<u>[Redacted] 10-9-13</u>
QC	Verify that the completed seal assembly is in accordance with Section 10.0 of this document and the test plan design. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>[Redacted] 10-9-13</u>

**Comments (can be continued on back):**

\* Installation Manual revised from page 1.

Penetration Seal Assembly Complete:

[Redacted Signature]

Quality Control

10-9-13

Date

Penetration Ready for Testing:

[Redacted Signature]

AREVA Test Engineer

10/18/13

Date





Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program


**A.4 Quality Verification of Calculation for Flexible Boot Seal Material Template**

Sleeve OD: 12.25

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Pipe OD: 8.625

01-9198306-F04 (OC-F04)

Attribute	Requirement	Initial / Date
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P1</u>	 <u>9-23-13</u>
10.2.1.2	Record input information for h, R, and r: h: <u>10.625</u> R: <u>6.375</u> r: <u>4.5625</u>	
10.2.1.4	1) Calculate sin(t): $\sin(t) = (R-r)/\sqrt{h^2 + [R-r]^2}$	sin(t) = <u>0.168</u>
10.2.1.6	2) Find the major radius (S): $S = R/\sin(t) + 1-9/16''$	S = <u>39.47</u>
10.2.1.8	3) Find the minor radius (s): $s = r/\sin(t)$	s = <u>27.13</u>
10.2.1.10	4) Find the central angle (T in radians): $T = 2 * \text{Pi} * \sin(t)$	T = <u>1.06</u> radians
10.2.1.11	5) Find the central angle in degrees (Θ): $\Theta = T * 180^\circ / \text{Pi}$	Θ = <u>60.54</u> degrees

Calculation Complete:



9-23-13

Preparer

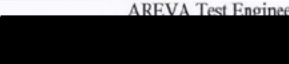
Date



9/23/13

AREVA Test Engineer

Date









Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.5 Quality Verification for Sleeve Inserts and Sleeve Extensions**

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01-9198306-F05 (OC-F05)

Attribute	Requirement	Initial / Date
11.1.1	Record the test penetration's unique identification number Test Penetration Number <u>4204219-P1</u>	[Redacted] / <u>10-2-13</u>
QC	Verify the penetration opening is clean and free of dirt, oil, and any other foreign materials. Ensure the exterior of the sleeve insert or sleeve extension is also clean and free of dirt, oil, and any other foreign materials.	[Redacted] / <u>10-3-13</u>
11.2.4, 11.2.10, 11.2.12 (11.3.5) [11.4.4, 11.4.10, 11.4.12]	Record the material type, lot number and expiration date for the sealants to be used in the sleeve insert (or sleeve extension) installation. Use Comments section to indicate where each type of sealant was used. Material Type: <u>DC-790</u> Lot Number: <u>0007390959</u> Expiration Date: <u>24 APR 14</u>	[Redacted] / <u>10-3-13</u>
	Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-25-15</u>	[Redacted] / <u>10-3-13</u>
11.2.8 (11.3.6) [11.4.8]	Record the fastener type and size used to connect the sleeve insert seam. Fastener Type & Size: <u>1/4 - 20 x 3/4 long</u>	[Redacted] / <u>10-3-13</u>
QC	Verify that the completed sleeve insert (or sleeve extension) has been installed in accordance with the test plan design and this instruction manual. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	[Redacted] / <u>10-8-13</u>

**Comments (can be continued on back):**

DISCONNECTED TOP FASTENER, APPLIED DC-732 ON LENGTH OF BOLT & REFASTENED.

Penetration Seal Assembly Complete:

[Redacted] / 10/8/13  
Quality Control / Date

Penetration Ready for Testing:

[Redacted] / 10/10/13  
AREVA Test Engineer / Date







Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.1 Quality Verification for Installation of Silicone Elastomer Penetration Seals**


Page 1 of 7

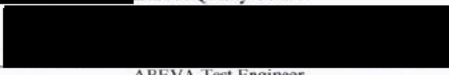
01-9198306-F01 (QC-F01)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
7.1.2	Test Penetration Number <u>9204218 - P2</u>	 <u>9-23-13</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	 <u>9-25-13</u>
QC	Verify the dam depth is as specified in the test plan and confirm that the penetration is clean and free of dirt, oil, and any other foreign materials.	<u>*</u>
7.2.1.1	Record material type, lot number and shelf life for batch on Form QC-F01, Table A-1	Attached
7.2.1.3	Record the batch number on Form QC-F01, Table A-1	Attached
7.2.1.2	Record sample weight and sample density on Form QC-F01, Table A-1	Attached
QC	Verify the total sample weight recorded on the cup label, the sample weight recorded on the cup label and Form QC-F01, Table A-1, and sample density recorded on the cup label and Form QC-F01, Table A-1. Record acceptance on Form QC-F01, Table A-1.	Attached
7.3.2	Remove all temporary damming per Section 6.3	<u>*</u>
QC	Verify that the completed seal assembly is in accordance with the test plan design (i.e., temporary damming has been removed, and the installed seal configuration(s) and depth(s) are per the test plan. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>*</u>

Comments (can be continued on back):

\* Installation manual revised, continued on page 2.

Penetration Seal Assembly Complete:  10-10-13  
AREVA Quality Control Date

Penetration Ready for Testing:  10/18/13  
AREVA Test Engineer Date





Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.1 Quality Verification for Installation of Silicone Elastomer Penetration Seals**

Page 2 of 7

01-9198306-F01 (QC-F01)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
7.1.2	Test Penetration Number <u>9204218-P2</u>	<u>*</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	<u>*</u>
QC	Verify the dam depth is as specified in the test plan and confirm that the penetration is clean and free of dirt, oil, and any other foreign materials.	<u>[Redacted] / 10-17-13 * *</u>
7.2.1.1	Record material type, lot number and shelf life for batch on Form QC-F01, Table A-1	Attached
7.2.1.3	Record the batch number on Form QC-F01, Table A-1	Attached
7.2.1.2	Record sample weight and sample density on Form QC-F01, Table A-1	Attached
QC	Verify the total sample weight recorded on the cup label, the sample weight recorded on the cup label and Form QC-F01, Table A-1, and sample density recorded on the cup label and Form QC-F01, Table A-1. Record acceptance on Form QC-F01, Table A-1.	Attached
7.3.2	Remove all temporary damming per Section 6.3	<u>[Redacted] 10-10-13</u>
QC	Verify that the completed seal assembly is in accordance with the test plan design (i.e., temporary damming has been removed, and the installed seal configuration(s) and depth(s) are per the test plan. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>[Redacted] 10-10-13</u>

**Comments (can be continued on back):**

\* Installation manual revised, continued from page 1.  
\* \* SIGN OFF GOOD FOR Q&SIL & DC-170.

Penetration Seal Assembly Complete: [Redacted] 10-10-13  
AREVA Quality Control Date

Penetration Ready for Testing: [Redacted] 10/18/13  
AREVA Test Engineer Date







Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.3 Quality Verification for Installation of Flexible Boot Seals**

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01-9198306-F03 (QC-F03)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial/Date</u>
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P2</u>	<u>[Redacted] 9-23-13</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	<u>[Redacted] 9-25-13</u>
10.2.4	Record the lot number for the boot material Lot Number: <u>080212ZTF</u>	<u>[Redacted] 9-25-13</u>
QC	Verify the penetration is clean and free of dirt, oil, and any other foreign materials. Ensure the bonding surfaces of the sleeve and penetrating pipe are free of any burrs and sharp edges.	<u>*</u>
10.3.6	Record the lot number for the Durablanket® S Lot Number: _____	<u>*</u>
QC	Verify the Durablanket S material has been installed in accordance with the test plan.	<u>*</u>
10.3.8	Record the material type, lot number and expiration date for the sealant Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-29-15</u>	<u>*</u>
10.3.11.6	Record clamp model numbers and quantities used at pipe Clamps at Pipe: <u>2 C 64720</u>	<u>*</u>
10.3.13.6	Record clamp model numbers and quantities used at pipe Clamps at Sleeve: _____	<u>*</u>
QC	Verify that the completed seal assembly is in accordance with Section 10.0 of this document and the test plan design. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>*</u>

**Comments (can be continued on back):**

\* Installation manual revised continued on page 5.

Penetration Seal Assembly Complete: [Redacted] 10-10-13  
AREVA Quality Control Date

Penetration Ready for Testing: [Redacted] 10/18/13  
AREVA Test Engineer Date





Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.3 Quality Verification for Installation of Flexible Boot Seals**

Page 5 of 7

01-9198306-F03 (QC-F03)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P2</u>	<u>*</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	<u>*</u>
10.2.4	Record the lot number for the boot material Lot Number: _____	<u>*</u>
QC	Verify the penetration is clean and free of dirt, oil, and any other foreign materials. Ensure the bonding surfaces of the sleeve and penetrating pipe are free of any burrs and sharp edges.	<u>[Redacted] 10-9-13</u>
10.3.6	Record the lot number for the Durablanket® S Lot Number: <u>32039 764521000</u>	<u>[Redacted] 10-9-13</u>
QC	Verify the Durablanket S material has been installed in accordance with the test plan.	<u>[Redacted] 10-9-13</u>
10.3.8	Record the material type, lot number and expiration date for the sealant Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-29-15</u>	<u>[Redacted] 10-10-13</u>
10.3.11.6	Record clamp model numbers and quantities used at pipe Clamps at Pipe: <u>2 @ 64720</u>	<u>[Redacted] 10-10-13</u>
10.3.13.6	Record clamp model numbers and quantities used at pipe Clamps at Sleeve: <u>2 @ 64104</u>	<u>[Redacted] 10-10-13</u>
QC	Verify that the completed seal assembly is in accordance with Section 10.0 of this document and the test plan design. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>PRH 10-10-13</u>

Comments (can be continued on back):

\* Installation manual revised continued from page 4.

Penetration Seal Assembly Complete:

[Redacted]  
AREVA Quality Control

10-10-13  
Date

Penetration Ready for Testing:

[Redacted]  
AREVA Test Engineer

10/18/13  
Date





Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.4 Quality Verification of Calculation for Flexible Boot Seal Material Template**

Sleeve OD: 12.00

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Pipe OD: 8.625

01-9198306-F04 (QC-F04)

Attribute	Requirement	Initial / Date
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P2</u>	<u>9-23-13</u>
10.2.1.2	Record input information for h, R, and r: h: <u>10.375</u> R: <u>6.25</u> r: <u>4.5625</u>	
10.2.1.4	1) Calculate sin(t): $\sin(t) = (R-r)/\sqrt{h^2 + [R-r]^2}$	sin(t) = <u>0.16</u>
10.2.1.6	2) Find the major radius (S): $S = R/\sin(t) + 1-9/16''$	S = <u>40.49</u>
10.2.1.8	3) Find the minor radius (s): $s = r/\sin(t)$	s = <u>28.42</u>
10.2.1.10	4) Find the central angle (T in radians): $T = 2 * \text{Pi} * \sin(t)$	T = <u>1.01</u> radians
10.2.1.11	5) Find the central angle in degrees (Θ): $\Theta = T * 180^\circ / \text{Pi}$	Θ = <u>57.77</u> degrees

Calculation Complete: 9-23-13  
Preparer Date

9/23/13  
AREVA Test Engineer Date





Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.5 Quality Verification for Sleeve Inserts and Sleeve Extensions**

Page 7 of 7

01-9198306-F05 (QC-F05)

Attribute	Requirement	Initial / Date
11.1.1	Record the test penetration's unique identification number Test Penetration Number <u>9204218 - P2</u>	[Redacted] 10-2-13
QC	Verify the penetration opening is clean and free of dirt, oil, and any other foreign materials. Ensure the exterior of the sleeve insert or sleeve extension is also clean and free of dirt, oil, and any other foreign materials.	[Redacted] 10-3-13
11.2.4, 11.2.10, 11.2.12 (11.3.5) [11.4.4, 11.4.10, 11.4.12]	Record the material type, lot number and expiration date for the sealants to be used in the sleeve insert (or sleeve extension) installation. Use Comments section to indicate where each type of sealant was used. Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-29-15</u>	[Redacted] 10-3-13
	Material Type: _____ Lot Number: _____ Expiration Date: _____	N/A
11.2.8 (11.3.6) [11.4.8]	Record the fastener type and size used to connect the sleeve insert seam. Fastener Type & Size: <u>1/4-20 x 3/4" long</u>	[Redacted] 10-3-13
QC	Verify that the completed sleeve insert (or sleeve extension) has been installed in accordance with the test plan design and this instruction manual. Any approved deviations from the test plan shall be clearly noted below.	[Redacted] 10/8/13

**Comments (can be continued on back):**

APPLIED DC-732 OVER TOP BOLT HEAD INSIDE SLEEVE.

Penetration Seal Assembly Complete:

[Redacted] 10/8/13  
AREVA Quality Control / Date

Penetration Ready for Testing:

[Redacted] 10/18/13  
AREVA Test Engineer / Date







Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.1 Quality Verification for Installation of Silicone Elastomer Penetration Seals**

Page 1 of 7

01-9198306-F01 (QC-F01)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial/ Date</u>
7.1.2	Test Penetration Number <u>9204218-P3</u>	<u>9-23-13</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	<u>9-25-13</u>
QC	Verify the dam depth is as specified in the test plan and confirm that the penetration is clean and free of dirt, oil, and any other foreign materials.	<u>*</u>
7.2.1.1	Record material type, lot number and shelf life for batch on Form QC-F01, Table A-1	Attached
7.2.1.3	Record the batch number on Form QC-F01, Table A-1	Attached
7.2.12	Record sample weight and sample density on Form QC-F01, Table A-1	Attached
QC	Verify the total sample weight recorded on the cup label, the sample weight recorded on the cup label and Form QC-F01, Table A-1, and sample density recorded on the cup label and Form QC-F01, Table A-1. Record acceptance on Form QC-F01, Table A-1.	Attached
7.3.2	Remove all temporary damming per Section 6.3	<u>*</u>
QC	Verify that the completed seal assembly is in accordance with the test plan design (i.e., temporary damming has been removed, and the installed seal configuration(s) and depth(s) are per the test plan. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>*</u>

Comments (can be continued on back):

\* Installation manual revised, continued on page 2.

Penetration Seal Assembly Complete:

AREVA Quality Control

10/7/13  
Date

Penetration Ready for Testing:

AREVA Test Engineer

10/18/13  
Date



Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.1 Quality Verification for Installation of Silicone Elastomer Penetration Seals**

Page 2 of 7

01-9198306-F01 (QC-F01)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
7.1.2	Test Penetration Number <u>9204218-P3</u>	*
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	*
QC	Verify the dam depth is as specified in the test plan and confirm that the penetration is clean and free of dirt, oil, and any other foreign materials.	[Redacted] / 10-7-13
7.2.1.1	Record material type, lot number and shelf life for batch on Form QC-F01, Table A-1	Attached
7.2.1.3	Record the batch number on Form QC-F01, Table A-1	Attached
7.2.12	Record sample weight and sample density on Form QC-F01, Table A-1	Attached
QC	Verify the total sample weight recorded on the cup label, the sample weight recorded on the cup label and Form QC-F01, Table A-1, and sample density recorded on the cup label and Form QC-F01, Table A-1. Record acceptance on Form QC-F01, Table A-1.	Attached
7.3.2	Remove all temporary damming per Section 6.3	[Redacted] 10-10-13
QC	Verify that the completed seal assembly is in accordance with the test plan design (i.e., temporary damming has been removed, and the installed seal configuration(s) and depth(s) are per the test plan. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	[Redacted] 10-10-13

Comments (can be continued on back):

\* Installation manual revised, continued from page 1.

Penetration Seal Assembly Complete: [Redacted] AREVA Quality Control 10-10-13  
Date

Penetration Ready for Testing: [Redacted] AREVA Test Engineer 10/18/13  
Date







Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.3 Quality Verification for Installation of Flexible Boot Seals**

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01-9198306-F03 (QC-F03)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
10.1.3	Record the test penetration's unique identification number Test Penetration Number: <u>9204218-PS</u>	[Redacted] <u>9-23-13</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	[Redacted] <u>9-25-13</u>
10.2.4	Record the lot number for the boot material Lot Number: <u>080212Z7F</u>	[Redacted] <u>9-25-13</u>
QC	Verify the penetration is clean and free of dirt, oil, and any other foreign materials. Ensure the bonding surfaces of the sleeve and penetrating pipe are free of any burrs and sharp edges.	<u>*</u>
10.3.6	Record the lot number for the Durablanket® S Lot Number: _____	<u>*</u>
QC	Verify the Durablanket S material has been installed in accordance with the test plan.	<u>*</u>
10.3.8	Record the material type, lot number and expiration date for the sealant Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-29-15</u>	<u>*</u>
10.3.11.6	Record clamp model numbers and quantities used at pipe Clamps at Pipe: <u>1 e 64880</u>	<u>*</u>
10.3.13.6	Record clamp model numbers and quantities used at pipe Clamps at Sleeve: _____	<u>*</u>
QC	Verify that the completed seal assembly is in accordance with Section 10.0 of this document and the test plan design. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>*</u>

**Comments (can be continued on back):**

*\* Installation manual revised, continued on page 5.*

Penetration Seal Assembly Complete:

[Redacted] AREVA Quality Control

10/17/13  
Date

Penetration Ready for Testing:

[Redacted] AREVA Test Engineer

10/18/13  
Date





Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.3 Quality Verification for Installation of Flexible Boot Seals**

Page 5 of 7

01-9198306-F03 (QC-F03)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P3</u>	<u>*</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	<u>*</u>
10.2.4	Record the lot number for the boot material Lot Number: _____	<u>*</u>
QC	Verify the penetration is clean and free of dirt, oil, and any other foreign materials. Ensure the bonding surfaces of the sleeve and penetrating pipe are free of any burrs and sharp edges.	<u>[REDACTED] / 10-3-13</u>
10.3.6	Record the lot number for the Durablanket® S Lot Number: <u>32039 764521000</u> <i>NOTE, 2 1/2 LAYERS BLANKET, TOP LAYER INSTALLED 1/2" DEEP</i>	<u>[REDACTED] 10-9-13</u>
QC	Verify the Durablanket S material has been installed in accordance with the test plan.	<u>[REDACTED] 10-9-13</u>
10.3.8	Record the material type, lot number and expiration date for the sealant Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-29-15</u>	<u>[REDACTED] 10-9-13</u>
10.3.11.6	Record clamp model numbers and quantities used at pipe Clamps at Pipe: <u>1c 64880</u>	<u>[REDACTED] 10-9-13</u>
10.3.13.6	Record clamp model numbers and quantities used at pipe Clamps at Sleeve: <u>2c 64720</u>	<u>[REDACTED] 10-9-13</u>
QC	Verify that the completed seal assembly is in accordance with Section 10.0 of this document and the test plan design. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>[REDACTED] 10-9-13</u>

**Comments (can be continued on back):**

\* Installation manual revised continued from page 4.

Penetration Seal Assembly Complete:

[REDACTED]  
AREVA Quality Control

10-9-13  
Date

Penetration Ready for Testing:

[REDACTED]  
AREVA Test Engineer

10/18/13  
Date



Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.4 Quality Verification of Calculation for Flexible Boot Seal Material Template**

Sleeve OD: 8.00

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Pipe OD: 4.50

01-9198306-F04 (OC-F04)

Attribute	Requirement	Initial/Date
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P3</u>	<u>[Redacted]</u> 9-23-13
10.2.1.2	Record input information for h, R, and r: h: <u>10.50</u> R: <u>4.25</u> r: <u>2.50</u>	
10.2.1.4	1) Calculate sin(t): $\sin(t) = (R-r)/\sqrt{h^2 + [R-r]^2}$	sin(t) = <u>0.16</u>
10.2.1.6	2) Find the major radius (S): $S = R/\sin(t) + 1-9/16''$	S = <u>27.41</u>
10.2.1.8	3) Find the minor radius (s): $s = r/\sin(t)$	s = <u>15.21</u>
10.2.1.10	4) Find the central angle (T in radians): $T = 2*\pi*\sin(t)$	T = <u>1.03</u> radians
10.2.1.11	5) Find the central angle in degrees (Θ): $\Theta = T*180^\circ/\pi$	Θ = <u>59.18</u> degrees

Calculation Complete:

[Redacted] 9-23-13  
Preparer Date  
[Redacted] 9/23/13  
AREVA Test Engineer Date  
[Redacted]





Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.5 Quality Verification for Sleeve Inserts and Sleeve Extensions**

Page 7 of 7

01-9198306-F05 (QC-F05)

Attribute	Requirement	Initial / Date
11.1.1	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P3</u>	[Redacted] <u>10-2-13</u>
QC	Verify the penetration opening is clean and free of dirt, oil, and any other foreign materials. Ensure the exterior of the sleeve insert or sleeve extension is also clean and free of dirt, oil, and any other foreign materials.	[Redacted] <u>10-9-13</u>
11.2.4, 11.2.10, 11.2.12 (11.3.5) [11.4.4, 11.4.10, 11.4.12]	Record the material type, lot number and expiration date for the sealants to be used in the sleeve insert (or sleeve extension) installation. Use Comments section to indicate where each type of sealant was used. Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-29-15</u>	[Redacted] <u>10-3-13</u>
	Material Type: _____ Lot Number: _____ Expiration Date: _____	<u>N/A</u>
11.2.8 (11.3.6) [11.4.8]	Record the fastener type and size used to connect the sleeve insert seam. Fastener Type & Size: <u>1/4-20 x 3/4" long</u>	[Redacted] <u>10-3-13</u>
QC	Verify that the completed sleeve insert (or sleeve extension) has been installed in accordance with the test plan design and this instruction manual. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	[Redacted] <u>10-9-13</u>

**Comments (can be continued on back):**

APPLIED DC-732 OVER NUT ON OUTSIDE OF SLEEVE.

Penetration Seal Assembly Complete:

[Redacted]  
AREVA Quality Control

10-9-13  
Date

Penetration Ready for Testing:

[Redacted]  
AREVA Test Engineer

10/18/13  
Date





Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.3 Quality Verification for Installation of Flexible Boot Seals**

Page 1 of 4

01-9198306-F03 (QC-F03)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P4</u>	<u>[Redacted] 9-23-13</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	<u>[Redacted] 9-25-13</u>
10.2.4	Record the lot number for the boot material Lot Number: <u>080 212 ZTF</u>	<u>[Redacted] 9-25-13</u>
QC	Verify the penetration is clean and free of dirt, oil, and any other foreign materials. Ensure the bonding surfaces of the sleeve and penetrating pipe are free of any burrs and sharp edges.	<u>*</u>
10.3.6	Record the lot number for the Durablanket® S Lot Number: _____	<u>*</u>
QC	Verify the Durablanket S material has been installed in accordance with the test plan.	<u>*</u>
10.3.8	Record the material type, lot number and expiration date for the sealant Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>5-29-15</u>	<u>*</u>
10.3.11.6	Record clamp model numbers and quantities used at pipe Clamps at Pipe: <u>2 @ 64720</u>	<u>*</u>
10.3.13.6	Record clamp model numbers and quantities used at pipe Clamps at Sleeve: _____	<u>*</u>
QC	Verify that the completed seal assembly is in accordance with Section 10.0 of this document and the test plan design. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>*</u>

**Comments (can be continued on back):**

\* Installation Manual revised, continued on page 2.

Penetration Seal Assembly Complete:

[Redacted]  
AREVA Quality Control

10-10-13  
Date

Penetration Ready for Testing:

[Redacted]  
AREVA Test Engineer

10/18/13  
Date







Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.3 Quality Verification for Installation of Flexible Boot Seals**

Page 2 of 4

01-9198306-F03 (QC-F03)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial/Date</u>
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P4</u>	<u>*</u>
QC	Verify critical attributes of the test slab and the applicable penetration are correct. Critical attributes are identified in the test plan (i.e., dimensions marked with an asterisk).	<u>*</u>
10.2.4	Record the lot number for the boot material Lot Number: _____	<u>*</u>
QC	Verify the penetration is clean and free of dirt, oil, and any other foreign materials. Ensure the bonding surfaces of the sleeve and penetrating pipe are free of any burrs and sharp edges.	<u>PRH / 10-3-12</u>
10.3.6	Record the lot number for the Durablanket® S Lot Number: <u>32039 764521000</u>	<u>[Redacted] 10-9-13</u>
QC	Verify the Durablanket S material has been installed in accordance with the test plan.	<u>[Redacted] 10-9-13</u>
10.3.8	Record the material type, lot number and expiration date for the sealant Material Type: <u>DC-732</u> Lot Number: <u>0007251823</u> Expiration Date: <u>29 MAY 15</u>	<u>[Redacted] 10-9-13</u>
10.3.11.6	Record clamp model numbers and quantities used at pipe Clamps at Pipe: <u>2@ 64720</u>	<u>[Redacted] 10-9-13</u>
10.3.13.6	Record clamp model numbers and quantities used at pipe Clamps at Sleeve: <u>2@ 64104</u>	<u>[Redacted] 10-9-13</u>
QC	Verify that the completed seal assembly is in accordance with Section 10.0 of this document and the test plan design. <b>Any approved deviations from the test plan shall be clearly noted below.</b>	<u>[Redacted] 10-9-13</u>

**Comments (can be continued on back):**

*\* Installation manual revised, continued from page 1.*

Penetration Seal Assembly Complete:

[Redacted]  
AREVA Quality Control

10-9-13  
Date

Penetration Ready for Testing:

[Redacted]  
AREVA Test Engineer

10/10/13  
Date





Document No.: 01-9198306-002

Installation Instruction Manual for MOX Penetration Seal Test Program


**A.4 Quality Verification of Calculation for Flexible Boot Seal Material Template**




Sleeve OD: 12.00

Page 3 of 4

Pipe OD: 8.625

01-9198306-F04 (QC-F04)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial / Date</u>
10.1.3	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P4</u>	 <u>9-23-13</u>
10.2.1.2	Record input information for h, R, and r: h: <u>10.375</u> R: <u>6.25</u> r: <u>4.5625</u>	
10.2.1.4	1) Calculate sin(t): $\sin(t) = (R-r)/\sqrt{h^2 + [R-r]^2}$	sin(t) = <u>0.16</u>
10.2.1.6	2) Find the major radius (S): $S = R/\sin(t) + 1-9/16''$	S = <u>40.49</u>
10.2.1.8	3) Find the minor radius (s): $s = r/\sin(t)$	s = <u>28.42</u>
10.2.1.10	4) Find the central angle (T in radians): $T = 2 * \text{Pi} * \sin(t)$	T = <u>1.01</u> radians
10.2.1.11	5) Find the central angle in degrees (Θ): $\Theta = T * 180 / \text{Pi}$	Θ = <u>57.79</u> degrees

Calculation Complete:  9-23-13  
Preparer Date  
 9/23/13  
AREVA Test Engineer Date  






Document No.: 01-9198306-003

Installation Instruction Manual for MOX Penetration Seal Test Program

**A.5 Quality Verification for Sleeve Inserts and Sleeve Extensions**

Page 4 of 4

01-9198306-F05 (QC-F05)

<u>Attribute</u>	<u>Requirement</u>	<u>Initial/ Date</u>
11.1.1	Record the test penetration's unique identification number Test Penetration Number <u>9204218-P4</u>	<u>AA</u> <u>10-2-13</u>
QC	Verify the penetration opening is clean and free of dirt, oil, and any other foreign materials. Ensure the exterior of the sleeve insert or sleeve extension is also clean and free of dirt, oil, and any other foreign materials.	<u>PKH</u> <u>10-3-13</u>
11.2.4, 11.2.10, 11.2.12 (11.3.5) [11.4.4, 11.4.10, 11.4.12]	Record the material type, lot number and expiration date for the sealants to be used in the sleeve insert (or sleeve extension) installation. Use Comments section to indicate where each type of sealant was used. Material Type: <u>DC-732</u> Lot Number: <u>6007251823</u> Expiration Date: <u>5-29-15</u>	<u>[Redacted]</u> <u>10-3-13</u>
	Material Type: _____ Lot Number: _____ Expiration Date: _____	<u>NA</u>
11.2.8 (11.3.6) [11.4.8]	Record the fastener type and size used to connect the sleeve insert seam. Fastener Type & Size: <u>1/4-20x3/4 long</u>	<u>[Redacted]</u> <u>10-3-13</u>
QC	Verify that the completed sleeve insert (or sleeve extension) has been installed in accordance with the test plan design and this instruction manual. Any approved deviations from the test plan shall be clearly noted below.	<u>[Redacted]</u> <u>10/8/13</u>

**Comments (can be continued on back):**

APPLIED NO CAULK <sup>A</sup> SLEEVE FASTENER <sub>TO</sub>

Penetration Seal Assembly Complete:

[Redacted]  
AREVA Quality Control

10/8/13  
Date

Penetration Ready for Testing:

[Redacted]  
AREVA Test Engineer

10/12/13  
Date





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### CERTIFICATE OF CONFORMANCE

CERTIFICATION NUMBER: 45550/13-630

CERT DATE: JULY 2, 2013

JOB NUMBER: 2860

SHIP DATE: JULY 2, 2013

CUSTOMER: AREVA NP INC.  
c/o INTERTEK TESTING SERVICES NA, INC.  
16015 SHADY FALLS ROAD  
ELMENDORF, TX 78112-9784

PRODUCT: PART NO. 56493F031  
Arlon Boot Material, Blue Black  
Fabric Silicone

CUSTOMER ORDER NUMBER: P.O. No. 1013037393, Rev. 01  
ITEM 20

VENDOR: PCI PROMATEC

CUSTOMER SPECIFICATION NUMBER: N/A

QUANTITY: 1 ROLL @ 36" WIDE X 2 LY  
1 ROLL @ 36" WIDE X 4 LY  
1 ROLL @ 36" WIDE X 5 LY  
1 ROLL @ 8 1/2" WIDE X 3LY

IDENTIFICATION NUMBER: 100512Z9F - 1 ROLL @ 2 LY  
080212Z7F - 1 ROLL @ 4 LY  
100512Z9F - 1 ROLL @ 5 LY  
050313Z7BF - 1 ROLL @ 3 LY

EXPIRATION DATE: N/A

#### CERTIFICATION REQUIREMENTS:

We hereby certify that all items furnished herein meet the requirements of the applicable product specifications, the above referenced customer order number, and supporting specifications. Vendor material certification on file and available upon written request.

Shelf Life - Not applicable to this item.

This material is provided in accordance with Promatec Quality Assurance Program QAM20188, Issue F, dated 06/20/03.

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QUALITY ASSURANCE MANAGER

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**CERTIFICATE OF CONFORMANCE**

**CERTIFICATION** 45550/13-631  
**NUMBER:**

**CERT DATE:** JULY 2, 2013

**JOB NUMBER:** 2860

**SHIP DATE:** JULY 2, 2013

**CUSTOMER:** AREVA NP INC.  
c/o INTERTEK TESTING  
SERVICES NA, INC.  
16015 SHADY FALLS ROAD  
ELMENDORF, TX 78112-9784

**PRODUCT:** CLAMP SS, IDEAL P/N 64104  
CLAMP SS, IDEAL P/N 6488  
CLAMP SS, IDEAL P/N 6472  
CLAMP SS, IDEAL P/N 6444  
CLAMP SS, IDEAL P/N 6420  
CLAMP SS, IDEAL P/N 6408

**CUSTOMER** P.O. No. 1013037393, Rev. 01  
**ORDER NUMBER:** ITEM 20

**VENDOR:** PCI PROMATEC

**CUSTOMER** N/A  
**SPECIFICATION**  
**NUMBER:**

**QUANTITY:** 10 BOXES @ 10 CLAMPS PER BOX  
100 CLAMPS TOTAL

**IDENTIFICATION** P/N 64104 – 30 EACH  
**NUMBER:** P/N 6488 – 10 EACH  
P/N 6472 – 30 EACH  
P/N 6444 – 10 EACH  
P/N 6420 – 10 EACH  
P/N 6408 – 10 EACH

**EXPIRATION**  
**DATE:** N/A

IDEAL P/N 64104 – 30 EACH  
IDEAL P/N 6488 – 10 EACH  
IDEAL P/N 6472 – 30 EACH  
IDEAL P/N 6444 – 10 EACH  
IDEAL P/N 6420 – 10 EACH  
IDEAL P/N 6408 – 10 EACH

**CERTIFICATION REQUIREMENTS:**

We hereby certify that all items furnished herein meet the requirements of the applicable product specifications, the above referenced customer order number, and supporting specifications. Vendor material certification on file and available upon written request.

Shelf Life – Not applicable to this item.

This material is provided in accordance with Promatec Quality Assurance Program QAM20188, Issue F, dated 06/20/03.

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**CERTIFICATE OF CONFORMANCE**

<u>CERTIFICATION NUMBER:</u> 45550/13-805	<u>CERT DATE:</u> SEPTEMBER 10, 2013
<u>JOB NUMBER:</u> 2860	<u>SHIP DATE:</u> SEPTEMBER 10, 2013
<u>CUSTOMER:</u> AREVA NP INC. c/o INTERTEK TESTING SERVICES NA, INC. 16015 SHADY FALLS ROAD ELMENDORF, TX 78112 9784	<u>PRODUCT:</u> DURABLANKET S Unifrax Fiberfrax Durablanket S 6-lb Density, 1"x24"x25' 50SF/Roll
<u>CUSTOMER ORDER NUMBER:</u> P.O. No. 1013037393, Rev. 4 ITEM 50 [MAT'L #D027563]	<u>VENDOR:</u> PCI PROMATEC
<u>CUSTOMER SPECIFICATION NUMBER:</u> N/A	<u>QUANTITY:</u> 2 BOXES @ 50 SF Per Box 1" x 24" X 25 Feet Per Roll 100 SQUARE FEET TOTAL
<u>IDENTIFICATION NUMBER:</u> 32039	<u>EXPIRATION DATE:</u> N/A

**CERTIFICATION REQUIREMENTS:**

We hereby certify that all items furnished herein meet the requirements of the applicable product specifications, the above referenced customer order number, and supporting specifications. Vendor material certification on file and available upon written request.

Shelf Life - Not Applicable for This Item.

This material is provided in accordance with Promatec Quality Assurance Program OAM20188, Issue F, dated 06/20/03.

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**QSi 5558MC Certificate of Conformance**

Product	QSi 5558MC
Batch Identification	130606

**Final Batch Physicals**

Tests	Specifications	Results
Appearance "A"	Black	Black
Appearance "B"	Beige	Beige
Viscosity "A" component, cps #5 Spindle @ 20rpm	<4,000	3,160 cps
Viscosity "B" component, cps # 5 Spindle @ 20 rpm	<4,000	1,980 cps
Specific Gravity "A" component (g/cm <sup>3</sup> )	1.35-1.40	1.37
Specific Gravity "B" component (g/cm <sup>3</sup> )	1.35-1.40	1.36
<b>Catalyzed Properties 1:1 Mix Ratio</b>		
Work Time, (snap time), minutes	20-40	25min.
Shore A, 24 hour	>45	57
<b>QSi Heat Cured Method 15 min. @ 150°C</b>		
Tensile strength, psi	>400	472
Elongation, %	>75	106
Young's Modulus	Report	478
<b>General Product Information</b>		
Date of Manufacture	6/6/13	
Shelf Life, months	12 months from date of shipment if stored at ≤38C (100F).	

Storage Conditions: This material should be stored in the original, unopened container at less than 100F. Under these conditions, the material will be useful for a period of 12 months.

QSi Batch Release Authorization: XXXXXXXXXX  
Quality Control  
QSi, LLC

Quantum Silicones certifies that the [material described above] has been tested in accordance with the company's standard lot acceptance procedures and complies (except as stated above) with the specifications associated with such material's Quantum Silicones Product Reference Number. This certification applies only to the material lot tested. Lot acceptance data are available for examination. This material has not been subjected to tests appropriate for medical device or pharmaceutical applications. QUANTUM SILICONES MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MECHANABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE WITH RESPECT TO THE PRODUCT TO WHICH THE ABOVE INFORMATION REFERS. [This Certificate is valid unsigned.]

Quantum Silicones, LLC  
8021 Reycan Road  
Richmond, VA 23237  
(804)271-9010  
Fax (804)271-9055  
[www.quantumsilicones.com](http://www.quantumsilicones.com)

Date of shipment 6/14/2013

REV-1  
11/29/12



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**CERTIFICATE OF CONFORMANCE**

CERTIFICATION 45550/13-580  
NUMBER:

CERT DATE: JUNE 12, 2013

JOB NUMBER: 2860

SHIP DATE: JUNE 12, 2013

CUSTOMER: AREVA NP INC.  
c/o INTERTEK TESTING SERVICES NA, INC.  
16015 SHADY FALLS ROAD  
ELMENDORF, TX 78112-9784

PRODUCT: DC-790-GRAY, 10.3oz  
Dow Corning 790 Building  
Sealant; 10.3oz Tubes  
GRAY in color

CUSTOMER P.O. No. 1013021586, REV. 1  
ORDER NUMBER: ITEM 3

VENDOR: PCI PROMATEC

CUSTOMER  
SPECIFICATION N/A  
NUMBER:

QUANTITY: 2 CASES @ 12 EA 10.3oz Tubes  
24 TUBES TOTAL

IDENTIFICATION 0007390959  
NUMBER:

EXPIRATION  
DATE: 24 APRIL 2014

**CERTIFICATION REQUIREMENTS:**

We hereby certify that all items furnished herein meet the requirements of the applicable product specifications, the above referenced customer order number, and supporting specifications. Vendor material certification on file and available upon written request.

Shelf Life – Twelve (12) months from date of manufacture April 2013. Note – Dow Corning calendar year based on 360-day cycle.

This material is provided in accordance with Promatec Quality Assurance Program QAMZ0188, Issue F, dated 06/20/03.

\_\_\_\_\_  
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### CERTIFICATE OF CONFORMANCE

CERTIFICATION NUMBER: 45550/13-614

CERT DATE: JUNE 28, 2013

JOB NUMBER: 2860

SHIP DATE: JUNE 28, 2013

CUSTOMER: AREVA NP INC.  
c/o INTERTEK TESTING SERVICES NA, INC.  
16015 SHADY FALLS ROAD  
ELEMENDORE, TX 78112-9784

PRODUCT: DC-170  
Dow Corning® Sylgard 170  
Elastomer; Part A&B  
50/50 Blend

CUSTOMER ORDER NUMBER: P.O. No. 1013037393, Rev. 01  
ITEM 1

VENDOR: PCI PROMATEC

CUSTOMER SPECIFICATION NUMBER: N/A

QUANTITY: 25 SETS @ 100lbs PER SET  
(Consisting of 2 each 6 gallon pails per kit)

IDENTIFICATION NUMBER: DC-170-063B03 PART A & B

EXPIRATION DATE: 30 JUNE 2014

#### **CERTIFICATION REQUIREMENTS:**

We hereby certify that all items furnished herein meet the requirements of the applicable product specifications, the above referenced customer order number, and supporting specifications. Vendor material certification on file and available upon written request.

Shelf Life – Twelve (12) months from date of certification, last day of the month.

This material is provided in accordance with Promatec Quality Assurance Program QAM20188, Issue F, dated 06/20/03.

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**CERTIFICATE OF CONFORMANCE**

CERTIFICATION NUMBER: 45550/13-803

CERT DATE: SEPTEMBER 10, 2013

JOB NUMBER: 2860

SHIP DATE: SEPTEMBER 10, 2013

CUSTOMER: AREVA NP INC.  
c/o INTERTEK TESTING SERVICES NA, INC.  
16015 SHADY FALLS ROAD  
ELMENDORE, TX 78112-9784

PRODUCT: SF-150NH™  
Promatec® SF-150NH™ High  
Density Elastomer  
Part A and Part B

CUSTOMER ORDER NUMBER: P.O. No. 1013037393, Rev. 3  
ITEM 40  
[MAT'L #D027563]

VENDOR: PCI PROMATEC

CUSTOMER SPECIFICATION NUMBER: N/A

QUANTITY: 4 SETS @ 100 LBS PER SET  
(Consisting of 2 Each 6 Gallon  
Pail Per Set)

IDENTIFICATION NUMBER: NH093B04 A&B


EXPIRATION DATE: 31 MARCH 2014

**CERTIFICATION REQUIREMENTS:**

We hereby certify that all items furnished herein meet the requirements of the applicable product specifications, the above referenced customer order number, and supporting specifications. Vendor material certification on file and available upon written request.

Shelf Life - Six (6) months from date of certification, last day of the month.

This material is provided in accordance with Promatec Quality Assurance Program QAM20188, Issue F, dated 06/20/03.

  
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E-Mail: [Sales@pci.com](mailto:Sales@pci.com)  
[www.pci.com](http://www.pci.com)

**CERTIFICATE OF CONFORMANCE**

**CERTIFICATION NUMBER:** 4555073-579

**CERT. DATE:** JUNE 12, 2013

**JOB NUMBER:** 2660

**SHIP DATE:** JUNE 12, 2013

**CUSTOMER:** AREVA NP INC.  
c/o INTERTEK TESTING SERVICES NA, INC.  
16015 SHADY HILLS ROAD  
ELMENDORF, TX 78112-0784

**PRODUCT:** DC-732-BLACK, 10.1oz  
Dow Corning 732 Multi-Purpose  
Sealant; 10.1oz Tubes  
BLACK in color

**CUSTOMER ORDER NUMBER:** P.O. No. 1013021586, RRV. 1  
ITEM 2

**VENTOR:** PCI PROMATEC

**CUSTOMER SPECIFICATION NUMBER:** N/A

**QUANTITY:** 4 CASES @ 12 EA 10.1oz Tubes  
48 TUBES TOTAL

**IDENTIFICATION NUMBER:** 0007251823

**EXPIRATION DATE:** 29 MAY 2015

**CERTIFICATION REQUIREMENTS:**

We hereby certify that all items furnished herein meet the requirements of the applicable product specifications, the above referenced customer order number, and supporting specifications. Vendor material certification on file and available upon written request.

Shelf Life - Thirty (30) months from date of manufacture, December, 2012. Note - Dow Corning calendar year based on 360-day cycle.

This material is provided in accordance with Promatec Quality Assurance Program QAM20138, Issue F, dated 06/20/03.

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## 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	2/1/2014*
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  
Certificate No. 1750.01

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:**

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

**Standards/Equipment:**

Description	Serial Number	Due Date	NIST Traceable Reference
Chilled Mirror Hygrometer	31674/H2048MCR	5/12/12	9193
Digital Thermometer	90969500	9/14/12	4000-3893285

**Certificate Information:**

Technician: 104 Procedure: CAL-17 Cal Date: 11/02/11 Cal Due: 11/02/13  
Test Conditions: 22.5°C 45.0 %RH 1017 mBar

**Calibration Data: (New Instrument)**

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 maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor: k=2 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 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 Ratio; Accuracy=±(Max-Min)/2; Min = Nominal(Rounded) - Tolerance; Max = Nominal(Rounded) + Tolerance; Date=MM/DD/YY

Nicol Rodriguez, Quality Manager

Wallace Berry, Technical Manager

**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 4465 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-01805-2008-AQ-HOU-ANAB.  
International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).

## Certificate of Calibration

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

### Standards Used

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

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 (NIMs) 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 applicable, accounting 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.



Andrew Krupp  
 Vice President, Quality and Continuous Improvement

## OMEGADYNE INC. CERTIFICATE OF CALIBRATION

**Model Number:** PX409-005DWUV  
**Serial Number:** 406707  
**Date:** 7/15/2011  
**Job:** R3274

**Capacity:** 5.00 PSID  
**Excitation:** 10.00 Vdc  
**Technician:** KAPOME

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/NC SL 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**



CERTIFICATE OF ACCURACY

This is to certify that meter serial number 4270050001001 is certified to an accuracy of +/- 1 % of 20 ppm of H<sub>2</sub> and has been calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technology (N.I.S.T.) according to our procedures.

All traceable certifications and related procedures for the equipment used are on file.

Barometer Number: N/A  
Vol-U-Meter Number: Base 1920  
cell 1898  
Type of Gas: H<sub>2</sub>  
Gas Used for Calibration: H<sub>2</sub>  
Pressure Gauge Number: 1122  
Timer Number: N/A  
Thermometer Number: N/A  
Voltmeter: NA  
Calibrated By: [REDACTED]  
Date Calibrated: 2-1-13

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.

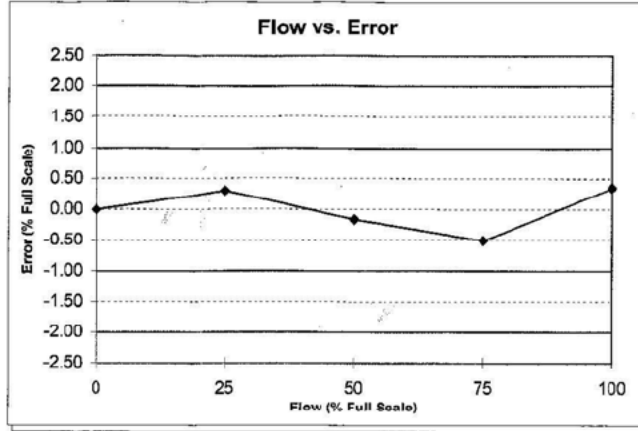
0122220B

FM-1011 REV B





**Mass Flowmeter/Flow Controller Calibration Data Sheet**



**Calibration Data**

Setpoint (SLPM)	Flow Signal (Volts)	Device Flow (SLPM)	Actual Flow (SLPM)	% FS Error *
00.00	0.000	00.00	00.00	0.00
05.00	1.253	05.01	05.07	0.30
10.00	2.502	10.01	09.98	-0.16
15.00	3.752	15.01	14.91	-0.50
20.00	5.000	20.00	20.07	0.35

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

DATE 2/1/2013  
TIME 7:59:59 AM  
Shop Order No. 427005  
Serial No. 4270050001001

**GAS**  
Nameplate (Actual) Nitrogen  
Surrogate (Calibration) Nitrogen (N2)

**STANDARD CONDITIONS**  
Std. Pressure 101.32 kPa (760 Torr)  
Std. Temperature 21.1 °C

**PRESSURE**  
Inlet (P<sub>1</sub>) 20 PSIG  
Outlet (P<sub>2</sub>) N/A

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

Max. Flow Rate 20 SLPM  
Gas Factor 1

Calibrator MT  
Flow Standard PICO 1898-1  
Unit Accuracy 1.0 FS & 0.0 Rate  
Calib. Attitude Horizontal (base down)

**LEAK TEST DATA**

Inboard (Externally Pressurized) Helium Leak Rate: < 1 x 10<sup>-8</sup> atm cc/sec  
Vacuum Pressure: < 5 milli Torr

Tested By: \_\_\_\_\_ Date: 2-1-13

FM-1119 Rev. K



CERTIFICATE OF ACCURACY

This is to certify that meter serial number 4270050003001 is certified to an accuracy of +/- 1 % of 200 slpm of N2 and has been calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technology (N.I.S.T.) according to our procedures.

All traceable certifications and related procedures for the equipment used are on file.

Barometer Number:	<u>1667</u>
Vol-U-Meter Number:	<u>613</u>
Type of Gas:	<u>N2</u>
Gas Used for Calibration:	<u>N2</u>
Pressure Gauge Number:	<u>1950</u>
Timer Number:	<u>1876</u>
Thermometer Number:	<u>985</u>
Voltmeter:	<u>NA</u>
Calibrated By:	<u>[REDACTED]</u>
Date Calibrated:	<u>2-7-13</u>

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



**MASS FLOWMETER/FLOW CONTROLLER CALIBRATION DATA SHEET**

**SPECIFICATIONS**

MODEL #: FMA-875A-V-NIST SERIAL #: 4270050003001  
 FLOW RANGE: 200 SLPM OPERATING TEMPERATURE: 70 F  
 NAMEPLATE (PROCESS) GAS: N2 SURROGATE (CALIBRATION) GAS: N2  
 STANDARD TEMPERATURE: 21.1 C STANDARD PRESSURE: 101.32 kPa (760 Torr)  
 P1 (INLET PRESSURE): 20 PSIG P2 (OUTLET PRESSURE): N/A  
 CALIBRATION TEMPERATURE: 18.7°C  
 CALIBRATION ATTITUDE (calibration attitude checked):  
 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

**CALIBRATION DATA**

% FULL SCALE (Nominal)	FLOW SIGNAL OUTPUT (signal type checked) <input checked="" type="checkbox"/> Vdc <input type="checkbox"/> mAdc	STANDARD VOLUMETRIC FLOW (Units: SLPM )		ERROR * (% Full Scale)
		DEVICE	MEASURED	
100	5.000	200.000	200.079	.5395
75	3.750	150.000	149.317	-3.415
50	2.500	100.000	100.488	.2440
25	1.250	50.000	50.852	.4260
0	0.00	0.000	0.000	-----

\* % FULL SCALE ERROR = (100) (MEASURED FLOW - DEVICE FLOW) ÷ FULL SCALE FLOW

CALIBRATED BY: [REDACTED] DATE: 2-7-13

**LEAK TEST DATA**

INBOARD (EXTERNALLY-PRESSURIZED) HELIUM LEAK RATE:  $<1 \times 10^{-8}$  atm cc/sec

VACUUM PRESSURE: <5 millitorr

TESTED BY: [REDACTED] DATE: 2-1-13

FM-355-OE Rev. 0





Calibration  
Certificate No. 1750.01

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

5/15/13  
[Redacted] (C)

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	26.8 2025	3/06/13	1000313632

**Certificate Information:**

Technician: 67 Procedure: CAL-01 Cal Date: 10/23/12 Cal Due: 10/23/14  
Test Conditions: 22.5°C 45.0 %RH 1015 mBar

**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	Y	-8.640	8.640	0.130	>4:1

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

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on best results falling within specified limits 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 Ratio; Accuracy=±(Max-Min)/2; Min = Nominal(Rounded) - Tolerance; Max = Nominal(Rounded) + Tolerance; Date=MM/DD/YY

[Redacted]  
Nicol Rodriguez, Quality Manager

[Redacted]  
Wallace Berry, Technical Manager

**Maintaining Accuracy:**

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

**Recalibration:**

For factory calibration and re-verification 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

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-01806-2008-AQ-HOU-ANAB.  
International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).



### TEST ARTICLE ATTRIBUTE CHECKLIST

PROJECT NO: G101276459-001B CLIENT: AREVA

Project Description PRESSURE #6 (TOP SIDE)

	SAT	UNSAT
<b>I. ASSEMBLY</b>		
Proper materials used .....	X	
Material documentation complete.....	X	
Configuration/dimensions in accordance w/ approved drawings....	X	
Description of assembly: <u>NOX PRESSURE #6</u>		
<b>II. ELECTRICAL CABLE</b>		
Correct material used .....	N/A	
Material documentation complete .....	N/A	
Correct cable lay-in and fill requirements .....	N/A	
Description of electrical cable: _____		
<b>III. THERMOCOUPLES</b>		
Correct thermocouple type, certs received .....	N/A	
Thermocouples positioned in accordance with test plan .....	N/A	
Adequately labeled and secured .....	N/A	
Quality Assurance verification done .....	N/A	
Description of thermocouples: _____		
<b>IV. FIRE BARRIER</b>		
Name or type of material _____		
INTERTEK received material documentation provided by Client.....	X	
Materials provided by INTERTEK properly documented .....	X	
Materials installed by INTERTEK in accordance with test plan .....	X	
INTERTEK Quality Assurance responsibilities determined .....	X	
QA responsibilities of Client installation determined .....	X	
Moisture check required .....		Yes ___ No <u>X</u>
Special requirements _____		

**V. FINAL PREBURN VERIFICATION**  
Final visual inspection & approval (initials) INTERTEK [REDACTED] Client [REDACTED]

CALIBRATION DOCUMENTATION (S/N and calibration due date)  
Data Acquisition Equipment: \_\_\_\_\_  
Other Measurement Devices: SEE TEST DATA PACKAGE

Temperature 70 Humidity 67 Date 10-18-13 Time of Test start 9:38.1

INTERTEK pre-burn checklist performed by [REDACTED]

Client representative present to witness test [REDACTED]

Note: Verification to be made using initials by INTERTEK Quality Assurance or test personnel.



### TEST ARTICLE ATTRIBUTE CHECKLIST

PROJECT NO: G101276459-001B CLIENT: AREVA

Project Description MAX PRESSURE #6 (BOTTOM SIDE)

	SAT	UNSAT
<b>I. ASSEMBLY</b>		
Proper materials used .....	X	
Material documentation complete.....	X	
Configuration/dimensions in accordance w/ approved drawings....	X	
Description of assembly: <u>MAX PRESSURE #6</u>		
<b>II. ELECTRICAL CABLE</b>		
Correct material used .....	N/A	
Material documentation complete .....		
Correct cable lay-in and fill requirements .....		
Description of electrical cable: _____		
<b>III. THERMOCOUPLES</b>		
Correct thermocouple type, certs received .....		
Thermocouples positioned in accordance with test plan .....	N/A	
Adequately labeled and secured .....		
Quality Assurance verification done .....		
Description of thermocouples: _____		
<b>IV. FIRE BARRIER</b>		
Name or type of material _____		
INTERTEK received material documentation provided by Client.....	X	
Materials provided by INTERTEK properly documented .....	X	
Materials installed by INTERTEK in accordance with test plan .....	X	
INTERTEK Quality Assurance responsibilities determined .....	X	
QA responsibilities of Client installation determined .....	X	
Moisture check required ..... Yes ___ No <u>X</u>		
Special requirements _____		
<b>V. FINAL PREBURN VERIFICATION</b>		
Final visual inspection & approval (initials) INTERTEK [REDACTED] Client [REDACTED]		
CALIBRATION DOCUMENTATION (S/N and calibration due date)		
Data Acquisition Equipment: _____		
Other Measurement Devices: <u>SEE TEST DATA PACKAGE</u>		
Temperature <u>72</u> Humidity <u>73</u> Date <u>10-2-13</u> Time of Test start <u>10:18 AM</u>		
INTERTEK pre-burn checklist performed by [REDACTED]		
Client representative present to witness test [REDACTED]		
Note: Verification to be made using initials by INTERTEK Quality Assurance or test personnel.		

09-013-12/30/03



### Certificate of Conformance

Client Name: Areva NP Inc.

Date: July 31, 2014

Project No: G101276459SAT-001B

Intertek Testing Services NA (Intertek) has conducted testing for Areva NP Inc., on the pressure resistance capabilities of Arlon Silicone Impregnated Fiberglass Fabric (Boot Material), IDEAL Clamp 9/16" All Stainless Steel 64 Series, Unifrax Fiberfrax<sup>®</sup> Durablanket<sup>®</sup> S (Durablanket), Quantum Silicones QSil 5558MC Silicone Elastomer (QSil 5558MC), Dow Corning<sup>®</sup> Sylgard 170 Silicone Elastomer (DC-170), and Promatec SF-150NH High-Density Silicone Elastomer (SF-150NH) in penetrations through a 12" thick concrete deck for compliance with the applicable requirements of and in accordance with Areva NP Inc. Document No. 51-9204218-003, *Detailed Test Plan for Conducting MOX Pressure Test 6 (Test Plan)*. This evaluation took place on October 18 and 21, 2013.

The materials, processes, and deliverable(s) in this project were managed under and conform to the test laboratory's 10CFR50 Appendix B Quality Assurance Program.



Michael A Brown  
Quality Supervisor

July 31, 2014

Date

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, which may be found in this report.

## REVISION SUMMARY

<b>DATE</b>	<b>SUMMARY</b>
July 31, 2014	Original Issue Date