



Collins Aerospace

February 22, 2019

Hopewell Township

Building & Construction Department

201 Washington Crossing - Pennington Road

Titusville, NJ 08560

Dear Plumbing Inspector,

Attached please find the results of the annual backflow preventer testing for our 330 Carter Road facility.

Regards,

Matthew Reilly, Environmental, Health & Safety Manager

COLLINS AEROSPACE | SENSORS UNLIMITED, Inc.

330 Carter Road, Suite 100, Princeton, NJ 08540

tel: 609.333.8232 cell: 609.225.0566

matthew.reilly@collins.com | collinsaerospace.com

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION Quarterly Physical Connection Test & Maintenance Report

1st ☐ 2nd ☐ 3rd ☐ 4th ☒
 QUARTER QUARTER QUARTER QUARTER
 01/01-03/31 04/01-06/30 07/01-09/30 10/01-12/31

Physical Connection Permit No. 2015-0320
~~1997~~

Date of Test 1-30-15

Instructions: This form is to be completed for each test of each approved valve. It is to be mailed to the Supplier of Water and Local Administrative Authority within 5 Days of each test & inspection performed by a Certified Tester. These forms shall be kept at the facility and be exhibited upon request, and are to be submitted with the Physical Connection Renewal Application.

To: NJ DEP

From: (Name of Permit Holder)

Mail Code 401-03
 Division of Water Supply
 Bureau of Water System Engineering
 P.O. Box 420, Trenton, NJ 08625-0420

UTC Aerospace Systems
 330 Carter Road
 Hopewell, NJ

The backflow prevention device identified below has been tested and inspected as required by N.J.A.C. 7:10-10.6 and is certified to be in compliance with this regulation.

Description of Valve _____ Location of Valve _____
 Manufacturer of Valve Watts _____ Building #3 - Basement Machinery Room _____
 Model Number 009M2QT RPZ ☒ DCVA ☐
 Serial Number 331211 Size 2" in. _____
 Comments & Notations: Non-potable Bypass (bottom) PSI DIFFERENTIAL

	PRESSURE TEST		INTERNAL INSPECTION	
	REDUCED PRESSURE ZONE ASSEMBLY		Double Check Valve Assembly	
	DOUBLE CHECK VALVE		1st Check	2nd Check
Initial Test	Closed Tight ☒ at <u>8.9</u> psid	Closed Tight ☒ at <u>8.5</u> psid	Relief Valve Opened at <u>2.4</u> psid	OK ☐ OK ☐
Passed ☒	Leaked ☐	Leaked ☐	Did Not Open ☐	Failed ☐ Failed ☐
Failed ☐	No. 2 Shut-Off Valve <u>20 Feet</u> Closed Tight ☒	By-pass used ☐		
Repairs & Materials Used				
Test After Repair & Assembly	Closed Tight ☐ psid	Closed Tight ☐ psid	Opened at _____ psid	OK ☐ OK ☐

The Results Shown Above are Certified to be True.

Witnesses to test & inspection

Certified Testers Name Christopher E. Pasker
 Certified Testers Signature _____
 Certifying Authority E. J. Pastor Maintenance Co., Inc.
 Cert. ID# NEWWA 6929 Exp. Date 3/31/2021

Name Christopher Pasker Title PHS MA.
 Representing Service Unlimited, Inc.
 Name _____ Title _____
 Representing _____

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Quarterly Physical Connection Test & Maintenance Report

1st ☐ 2nd ☐ 3rd ☐ 4th ☒
QUARTER QUARTER QUARTER QUARTER
01/01-03/31 04/01-06/30 07/01-09/30 10/01-12/31

Physical Connection Permit No. _____

2015-0320
1997

Date of Test 11-30-18

Instructions: This form is to be completed for each test of each approved valve. It is to be mailed to the Supplier of Water and Local Administrative Authority within 5 Days of each test & Inspection performed by a Certified Tester. These forms shall be kept at the facility and be exhibited upon request, and are to be submitted with the Physical Connection Renewal Application.

To: NJ DEP

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Mail Code 401-03

UTC Aerospace Systems

Division of Water Supply

330 Carter Road

Bureau of Water System Engineering

Hopewell, NJ

P.O.Box 420, Trenton, NJ 08625-0420

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Description of Valve

Location of Valve

Manufacturer of Valve Watts

Boiler Room

Model Number 009M2QT RPZ ☒ DCVA ☐
Serial Number 020334 Size 1" in.

Comments & Notations: Boiler Makeup Water *Per Opfr-2.0021*

	PRESSURE TEST			INTERNAL INSPECTION			
	REDUCED PRESSURE ZONE ASSEMBLY			Double Check Valve Assembly			
	DOUBLE CHECK VALVE			1st Check	2nd Check		
Initial Test	Closed Tight at <u>8.0</u> psid	☒	Closed Tight at <u>7.6</u> psid	☒	Opened at <u>2.2</u> psid	OK ☐	OK ☐
	Leaked ☐	Leaked ☐	Leaked ☐	Did Not Open ☐	Failed ☐	Failed ☐	
Passed ☒							
Failed ☐	No. 2 Shut-Off Valve <i>Closed Tight</i> ☒						
	Leaked ☐	By-pass used ☐					
Repairs & Materials Used							
Test After Repair & Assembly	Closed Tight ☐	psid	Closed Tight ☐	psid	Opened at ☐	OK ☐	OK ☐

The Results Shown Above are Certified to be True.

Witnesses to test & Inspection

Certified Testers Name Christopher E. Pastor

Name *Christopher E. Pastor*

Title *CHAS Pastor*

Certified Testers Signature

Representing *Senior Underwriter, Inc.*

Certifying Authority E. J. Pastor Maintenance Co., Inc.

Name

Title

Cert. ID# NEWWA 6929 Exp. Date 3/31/2021

Representing

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION **Quarterly Physical Connection Test & Maintenance Report**

1st ☐ 2nd ☐ 3rd ☐ 4th ☒
 QUARTER QUARTER QUARTER QUARTER
 01/01-03/31 04/01-06/30 07/01-09/30 10/01-12/31

Physical Connection Permit No. 2015-0320
1097

Date of Test 11/30/18

Instructions: This form is to be completed for each test of each approved valve. It is to be mailed to the Supplier of Water and Local Administrative Authority within 5 Days of each test & Inspection performed by a Certified Tester. These forms shall be kept at the facility and be exhibited upon request, and are to be submitted with the Physical Connection Renewal Application.

To: NJ DEP

From: (Name of Permit Holder)

Mail Code 401-03
 Division of Water Supply
 Bureau of Water System Engineering
 P.O. Box 420, Trenton, NJ 08625-0420

UTC Aerospace Systems
 330 Carter Road
 Hopewell, NJ

The backflow prevention device identified below has been tested and inspected as required by N.J.A.C. 7:10-10.6 and is certified to be in compliance with this regulation.

Description of Valve _____ Location of Valve _____
 Manufacturer of Valve Watts _____ Building #3 - Basement Machinery Room
 Model Number 009M2QT RPZ ☒ DCVA ☐
 Serial Number 331207 Size 2" in.
 Comments & Notations: Non-potable water cold (top) PSI 0.15 = 1.8 PSI

	PRESSURE TEST		INTERNAL INSPECTION	
	REDUCED PRESSURE ZONE ASSEMBLY		Double Check Valve Assembly	
	DOUBLE CHECK VALVE			
Initial Test	1st Check	2nd Check	Relief Valve	
	Closed Tight at <u>9.2</u> psid ☒	Closed Tight at <u>8.4</u> psid ☒	Opened at <u>3.0</u> psid ☒	
Passed ☒	Leaked ☐	Leaked ☐	Did Not Open ☐	Failed ☐
Failed ☐	No. 2 Shut-Off Valve <u>2nd Pass</u> Closed Tight ☒	By-pass used ☐		Failed ☐
Repairs & Materials Used				
Test After Repair & Assembly	Closed Tight ☐ psid	Closed Tight ☐ psid	Opened at ☐ psid	OK ☐

The Results Shown Above are Certified to be True.

Witnesses to test & Inspection

Certified Testers Name Christopher E. Parlor
 Certified Testers Signature [Signature]
 Certifying Authority E. J. Pastor Maintenance Co., Inc.
 Cert. ID# NEWWA 6929 Exp. Date 3/31/2021

Name [Signature] Title CHS Mgr.
 Representing Sundera Authority, Inc.
 Name _____ Title _____
 Representing _____

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Quarterly Physical Connection Test & Maintenance Report

1st ☐ 2nd ☐ 3rd ☐ 4th ☒
QUARTER QUARTER QUARTER QUARTER
01/01-03/31 04/01-06/30 07/01-09/30 10/01-12/31

Physical Connection Permit No. 2015-0320
1337

Instructions: This form is to be completed for each test of each approved valve. It is to be mailed to the Supplier of Water and Local Administrative Authority within 5 Days of each test & Inspection performed by a Certified Tester. These forms shall be kept at the facility and be exhibited upon request, and are to be submitted with the Physical Connection Renewal Application.

Date of Test 11-30-18

To: NJ DEP

From: (Name of Permit Holder)

Mail Code 401-03

UTC Aerospace Systems

Division of Water Supply

330 Carter Road

Bureau of Water System Engineering

Hopewell, NJ

P.O.Box 420, Trenton, NJ 08625-0420

The backflow prevention device identified below has been tested and inspected as required by N.J.A.C. 7:10-10.6 and is certified to be in compliance with this regulation.

Description of Valve

Location of Valve

Manufacturer of Valve Watts

Building #3 - Basement Machinery Room

Model Number 009M2QT RPZ ☒ DCVA ☐

Serial Number 390221 Size 1" in.

Comments & Notations: Non-potable water cold Pressure = 1.80 psi

	PRESSURE TEST				INTERNAL INSPECTION	
	REDUCED PRESSURE ZONE ASSEMBLY			Double Check Valve Assembly		
	DOUBLE CHECK VALVE					
	1st Check	2nd Check	Relief Valve	1st Check	2nd Check	
Initial Test	Closed Tight ☒ at <u>7.4</u> psid	Closed Tight ☒ at <u>7.2</u> psid	Opened at <u>2.5</u> psid	OK ☐	OK ☐	
Passed ☒	Leaked ☐	Leaked ☐	Did Not Open ☐	Failed ☐	Failed ☐	
Failed ☐	No. 2 Shut-Off Valve Closed Tight ☒	By-pass used ☐				
Repairs & Materials Used						
Test After Repair & Assembly	Closed Tight ☐ psid	Closed Tight ☐ psid	Opened at ☐ psid	OK ☐	OK ☐	

The Results Shown Above are Certified to be True.

Witnesses to test & Inspection

Certified Testers Name Christopher E. Pastor

Name Christopher E. Pastor Title CHFS Manager

Certified Testers Signature [Signature]

Representing Service to Humanity, Inc.

Certifying Authority E. J. Pastor Maintenance Co., Inc.

Name _____ Title _____

Cert. ID# NEWWA 6929 Exp. Date 3/31/2021

Representing _____

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Quarterly Physical Connection Test & Maintenance Report

1st ☐ 2nd ☐ 3rd ☐ 4th ☒
QUARTER QUARTER QUARTER QUARTER
07/01-03/31 04/01-06/30 07/01-09/30 10/01-12/31

Physical Connection Permit No. 2015-0320
1007

Instructions: This form is to be completed for each test of each approved valve. It is to be mailed to the Supplier of Water and Local Administrative Authority within 5 Days of each test & Inspection performed by a Certified Tester. These forms shall be kept at the facility and be exhibited upon request, and are to be submitted with the Physical Connection Renewal Application.

Date of Test 11-30-18

To: NJ DEP

From: (Name of Permit Holder)

Mail Code 401-03

UTC Aerospace Systems

Division of Water Supply

330 Carter Road

Bureau of Water System Engineering

Hopewell, NJ

P.O. Box 420, Trenton, NJ 08625-0420

The backflow prevention device identified below has been tested and inspected as required by N.J.A.C. 7:10-10.6 and is certified to be in compliance with this regulation.

Description of Valve

Location of Valve

Manufacturer of Valve Watts

Building #3 - Basement Machinery Room

Model Number 009M2QT RPZ ☒ DCVA ☐

Serial Number 390220 Size 1" in.

Comments & Notations: Non-potable cold water bypass (bottom) Diff = 1.6 psi

Initial Test	PRESSURE TEST				INTERNAL INSPECTION		
	REDUCED PRESSURE ZONE ASSEMBLY				Double Check Valve Assembly		
	DOUBLE CHECK VALVE		Relief Valve	1st Check		2nd Check	
Passed ☒	Closed Tight at <u>7.2</u> psid	☒		Closed Tight at <u>5.6</u> psid	☒	Opened at <u>2.1</u> psid	OK ☐
Failed ☐	Leaked ☐	Leaked ☐	No. 2 Shut-Off Valve <u>Closed Tight</u> ☒	Did Not Open ☐	Failed ☐	Failed ☐	
			By-pass used ☐				
Repairs & Materials Used							
Test After Repair & Assembly	Closed Tight ☐	Closed Tight ☐	Opened at ☐	OK ☐	OK ☐		

The Results Shown Above are Certified to be True.

Witnesses to test & Inspection

Certified Testers Name Christopher E. Pastor

Name Christopher E. Pastor Title EH&S Mgr.

Certified Testers Signature

Representing Sensio Unlimited, Inc.

Certifying Authority E. J. Pastor Maintenance Co., Inc.

Name _____ Title _____

Cert. ID# NEWWA 6929 Exp. Date 3/31/2021

Representing _____

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Quarterly Physical Connection Test & Maintenance Report

1st ☐ **2nd** ☐ **3rd** ☐ **4th** ☒
QUARTER QUARTER QUARTER QUARTER
01/01-03/31 04/01-06/30 07/01-09/30 10/01-12/31

Physical Connection Permit No.

2015-0320
1337

Date of Test 11-30-18

Instructions: This form is to be completed for each test of each approved valve. It is to be mailed to the Supplier of Water and Local Administrative Authority within 5 Days of each test & Inspection performed by a Certified Tester. These forms shall be kept at the facility and be exhibited upon request, and are to be submitted with the Physical Connection Renewal Application.

To: NJ DEP

Mail Code 401-03

From: (Name of Permit Holder)

UTC Aerospace Systems

Division of Water Supply

330 Carter Road

Bureau of Water System Engineering

Hopewell, NJ

P.O.Box 420, Trenton, NJ 08625-0420

The backflow prevention device identified below has been tested and inspected as required by N.J.A.C. 7:10-10.6 and is certified to be in compliance with this regulation.

Description of Valve

Location of Valve

Manufacturer of Valve Watts

Building #1 - Basement

Model Number 009M2QT RPZ ☒ DCVA ☐

Serial Number 332503 Size 2" in.

Comments & Notations: Potable Water PSI 015.2 1.9 PSI

	PRESSURE TEST				INTERNAL INSPECTION		
	REDUCED PRESSURE ZONE ASSEMBLY				Double Check Valve Assembly		
	DOUBLE CHECK VALVE				1st Check	2nd Check	
Initial Test	Closed Tight at <u>91</u> psid	☒	Closed Tight at <u>56</u> psid	☐	Opened at <u>35</u> psid	OK ☐	OK ☐
					Failed ☐	Failed ☐	Failed ☐
Passed ☒	Leaked ☐		Leaked ☐	Did Not Open ☐	Failed ☐	Failed ☐	
Failed ☐	No. 2 Shut-Off Valve Closed Tight ☒		By-pass used ☐				
Repairs & Materials Used							
Test After Repair & Assembly	Closed Tight ☐	psid	Closed Tight ☐	psid	Opened at	OK ☐	OK ☐

The Results Shown Above are Certified to be True.

Witnesses to test & Inspection

Certified Testers Name Christopher E. Pastor

Name Matthew Reilly Title S.H.S. Mgr.

Certified Testers Signature

Representing Sewer Unlimited, Inc.

Certifying Authority E. J. Pastor Maintenance Co., Inc.

Name Title

Cert. ID# NEWWA 6929 Exp. Date 3/31/2021

Representing

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Quarterly Physical Connection Test & Maintenance Report

1st ☐ 2nd ☐ 3rd ☐ 4th ☒
QUARTER QUARTER QUARTER QUARTER
01/01-03/31 04/01-06/30 07/01-09/30 10/01-12/31

Physical Connection Permit No. 205-0320
1337

Instructions: This form is to be completed for each test of each approved valve. It is to be mailed to the Supplier of Water and Local Administrative Authority within 5 Days of each test & Inspection performed by a Certified Tester. These forms shall be kept at the facility and be exhibited upon request, and are to be submitted with the Physical Connection Renewal Application.

Date of Test 11-30-18

To: NJ DEP

From: (Name of Permit Holder)

Mail Code 401-03

UTC Aerospace Systems

Division of Water Supply

330 Carter Road

Bureau of Water System Engineering

Hopewell, NJ

P.O. Box 420, Trenton, NJ 08625-0420

The backflow prevention device identified below has been tested and inspected as required by N.J.A.C. 7:10-10.6 and is certified to be in compliance with this regulation.

Description of Valve

Location of Valve

Manufacturer of Valve Watts

Building #2 - HVAC Room

Model Number 009M3 RPZ ☒ DCVA ☐

Serial Number 400715 Size 3/4" in.

Comments & Notations: PSI Diff 2.1 0.5E 0.15E = 1.5 PSI

Initial Test	PRESSURE TEST		INTERNAL INSPECTION		
	REDUCED PRESSURE ZONE ASSEMBLY		Double Check Valve Assembly		
	DOUBLE CHECK VALVE				
	1st Check	2nd Check	Relief Valve	1st Check	2nd Check
Passed ☒	Closed Tight ☒ at <u>6.2</u> psid	Closed Tight ☒ at <u>5.0</u> psid	Opened at <u>2.0</u> psid	OK ☐	OK ☐
Failed ☐	Leaked ☐	Leaked ☐	Did Not Open ☐	Failed ☐	Failed ☐
	No. 2 Shut-Off Valve <u>Closed Tight</u>				
	Leaked ☐	By-pass used ☐			
Repairs & Materials Used					
Test After Repair & Assembly	Closed Tight ☐ psid	Closed Tight ☐ psid	Opened at ☐ psid	OK ☐	OK ☐

The Results Shown Above are Certified to be True.

Witnesses to test & Inspection

Certified Testers Name Christopher E. Pastor

Name Heidi Title City's Mgr.

Certified Testers Signature [Signature]

Representing San Jose San Jose

Certifying Authority E. J. Pastor Maintenance Co., Inc.

Name [Signature] Title [Signature]

Cert. ID# NEWWA 6929 Exp. Date 3/31/2021

Representing [Signature]