

AGT Planned Outages

Below is a list of major outages known to date that will affect capacity or that impact major receipt/delivery areas on the Algonquin Gas Transmission (AGT) system. Due to unforeseen delays or scheduling conflicts, the dates of the outages listed below are subject to change. In addition, this schedule is not a complete list of all outages that will occur this outage season, and we reserve the right to update this list to reflect additional major outages when the timing of such major outages can be reasonably forecasted. Any changes to the list below will be posted at the earliest practical date. Furthermore, when operationally feasible, AGT will coordinate with upstream and downstream point operators as necessary, to help minimize the operational impact of outages. Parties are urged to monitor these posting to access the most current information.

Mainline Outages:

Stony Point to Southeast:

May 24, 2019 – TBD

Cleaning Tool Date: Complete

In-Line Tool Date: Complete

Tool Run Results/ Potential Repairs: In Progress

Enhanced Survey Analysis Results/ Potential Repairs: TBD, 2020

As part of AGT's comprehensive integrity assessment of its pipeline system, AGT will be conducting detailed investigations on its 26" Main Line between its Stony Point and Southeast compressor stations. As a result of these investigations, AGT will be adjusting its operating pressure on the 26" Main Line to accommodate these investigations.

AGT has determined that the current pressure restriction will remain through the winter until AGT can complete its assessments and appropriately remediate identified anomalies. AGT currently anticipates capacity impacts to be less than 40,000 Dth/d.

AGT will be conducting further detailed investigations on its 26" Main Line between Stony Point and Southeast compressor stations. Please refer to the Operational Capacity Matrix for a list of mainline capacities until these further detailed investigations are complete.

Depending on the results of the ILI Tool run and if further detailed investigations are required which result in a reduction of capacity; AGT will post on its EBB as soon as it is known.

**26" Main Line – Lambertville Meter Station (00210 ALGONQUIN - LAMBERTVILLE, NJ) - to Mahwah Meter Station (MR 00201 MAHWAH BERGEN,NJ):
August 29, 2019 – TBD**

Cleaning Tool Date: Complete

In-Line Tool Date: Complete

Tool Run Results/ Potential Repairs: In Progress

Enhanced Survey Analysis Results/ Potential Repairs: TBD, 2020

As part of AGT's comprehensive integrity assessment of its pipeline system, AGT will be conducting further detailed investigations on its 26" Main Line between its Lambertville and Mahwah meter stations. As a result of these investigations, AGT will be adjusting its operating pressure on 26" Main Line between Lambertville and Mahwah meter stations to accommodate these investigations.

As a result, during these investigations, AGT currently anticipates the capacity loss for receipts sourced west of Hanover with this pressure restriction to be approximately 60,000 Dth/d.

Additionally, during these pressure restrictions, AGT currently anticipates the capacity loss for receipts sourced east of Hanover with this pressure restriction to be approximately 47,000 Dth/d, which includes the TE/ AGT Lease Capacity.

Furthermore, AGT will be limited to approximately 560,000 Dth/day for delivery to TE Lambertville (MR 00210) and TE Hanover (MR 00211), which includes the TE/ AGT Lease Capacity. Due to these current flow patterns AGT anticipates restrictions to interruptible, secondary services and primary firm services.

If further detailed investigations are required which result in a reduction of capacity. AGT will post on its EBB as soon as it is known.

24” Main Line - Burrillville to End Of Line (EOL):

In-Line Tool Date: Complete

Tool Run Results/ Potential Repairs: Complete

Enhanced Survey Analysis Results/ Potential Repairs: May 4, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting detailed investigations on its 24” Main Line between Burrillville to the End of Line.

If as a result of these investigations and restrictions are required which result in a further reduction of capacity; AGT will post on its EBB as soon as it is known.

In addition, any repairs involving Burrillville to EOL 24” M/L Valve Sections 6-8 will impact flow to the J-1 system. In the event an isolation is required in these valve sections, meters 00027, 00028, 00032, 00057, 00074, 00080, 00089, 00826 will potentially need to source their supply from receipt meters 00206 and/or 00271.

42” ML – Valve 13B (upstream of Stony Point) to Southeast:

Cleaning Tool Date: Complete

In-Line Tool Date: Complete

Tool Run Results/ Potential Repairs: July 13, 2020

Enhanced Survey Analysis Results/ Potential Repairs: TBD, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting pigging operations on its 42” Main Line from upstream of Stony Point to Southeast compressor station.

Depending on the results of the ILI Tool run and if further detailed investigations are required which result in a reduction of capacity; AGT will post on its EBB as soon as it is known.

AGT Compressor Station Outages:

AGT will be conducting outages at the following compressor stations. Please refer to the operational capacity matrix for a list of mainline capacities during each of the following outages:

<u>Date</u>	<u>Station</u>
August 15 – September 18	Burrillville
Sept 8 – Sept 12	Cromwell
Sept 14 – Sept 18	Southeast
Sept 14 – Sept 18	Cromwell
Sept 20 – Oct 28	Oxford
Sept 21 – Sept 25	Cromwell
September 25	Chaplin
September 28	Burrillville
TBD Fall (1 Day)	Stony Point

TBD Fall (1 Day)	Southeast
TBD Fall (1 Day)	Oxford
TBD Fall (2 Days)	Cromwell

Based on historical nominations, AGT anticipates restrictions to interruptible, secondary services and potentially primary firm services.

**36” Line L36B – Cromwell to Burrillville –
July 6 – November 1, 2020**

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting a pipeline outage on its 36” Line L36B between its Cromwell and Burrillville compressor stations.

Based on historical nominations through Burrillville, AGT anticipates restrictions to interruptible and a portion of secondary services. Please review the operational capacity matrix for reductions in capacity associated with this outage.

**Hanover Compressor Station Outage:
October 15 – October 17, 2020**

AGT will be conducting a compressor station outage at its Hanover compressor station. During this time, AGT will be limited to a net of approximately 350,000 Dth/day for delivery to TE Lambertville (MR 00210) and TE Hanover (MR 00211), which includes the TE/ AGT Lease Capacity.

Based on historical nominations AGT doesn’t anticipate restrictions at this time. However, if flow patterns change, restrictions may be required for interruptible, secondary services and potentially primary firm services.

Lateral Outages:

I System Line I-9-24”:

Tool Date: Complete

Tool Run Results/ Potential Repairs: Complete

Enhanced Survey Analysis Results/ Potential Repairs: April 30, 2020

Depending on the results of the ILI Tool run and if further detailed investigations are required, the following meters may be unavailable for flow:

MR 00834 – BELD - BRAINTREE ELECTRIC LIGHT (NORFOLK,MA)

MR 00803 – FORE RIVER (NORFOLK,MA)

Additionally, if an isolation is necessary, the following meters may have to source their supply from MR 00215 – SALEM ESSEX CO., MA (ESSEX,MA) and may have lower than desired pressures:

MR 00803 – FORE RIVER (NORFOLK,MA)

MR 00827 – NATIONAL GRID-WEYMOUTH (NORFOLK,MA)

MR 00834 – BELD - BRAINTREE ELECTRIC LIGHT (NORFOLK,MA)

MR 00837 – SALEM HARBOR STATION

Furthermore, in this scenario, meter 00215 – SALEM ESSEX CO., MA (ESSEX,MA) will be unavailable for flow to all locations except for the meters previously stated.

E System Line E-3-12”:

Cleaning Tool Date: Complete

In-Line Tool Date: Complete

Tool Run Results/ Potential Repairs: Complete

Enhanced Survey Analysis Results/ Potential Repairs: TBD, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting pigging operations on its 12” E-3 Line. During the tool runs, to the extent feasible, AGT will coordinate with downstream point operators to minimize operational impact:

MR 00006 – MOHEGAN PARK (NEW LONDON,CT)

MR 00008 – NATIONAL GRID-WESTERLY (WASHINGTON,RI)

MR 00082 – STONINGTON (NEW LONDON,CT)

MR 00841 – NORWICH PUBLIC UTILITIES-OAKLAND HEIGHTS, NEW LONDON, CT

Depending on the results of the ILI Tool run and if further detailed investigations are required, the following meters may experience lower than desired pressure or be unavailable for flow:

MR 00006 – MOHEGAN PARK (NEW LONDON,CT)
MR 00008 – NATIONAL GRID-WESTERLY (WASHINGTON,RI)
MR 00082 – STONINGTON (NEW LONDON,CT)
MR 00841 – NORWICH PUBLIC UTILITIES-OAKLAND HEIGHTS, NEW
LONDON, CT

N System Line N-1-6”:

Cleaning Tool Date: TBD, 2020

In-Line Tool Date: Complete

Tool Run Results/ Potential Repairs: July 18, 2020

Enhanced Survey Analysis Results/ Potential Repairs: TBD, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting pigging operations on its 6” N-1 Line. During the tool runs, to the extent feasible, AGT will coordinate with downstream point operators to minimize operational impact:

MR 00062 – VERNON (TOLLAND,CT)

Depending on the results of the ILI Tool run and if further detailed investigations are required, the following meters may experience lower than desired pressures or be unavailable for flow:

MR 00062 – VERNON (TOLLAND,CT)

G System Line G-3-8”:

Cleaning Tool Date: TBD, 2020

In-Line Tool Date: Complete

Tool Run Results/ Potential Repairs: June 30, 2020

Enhanced Survey Analysis Results/ Potential Repairs: TBD, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting pigging operations on its 8” G-3 Line. During the tool runs, the following meter may experience lower than desired pressure:

MR 00017 – NEW BEDFORD (BRISTOL,MA)

Although the G-3L-16” line remains in service, depending on the results of the ILI Tool run and if further detailed investigations are required, the following meters may experience lower than desired pressures:

MR 00017 – NEW BEDFORD (BRISTOL,MA)

G System Line G-10-6”:

Cleaning Tool Date: TBD, 2020

In-Line Tool Date: TBD, 2020

Tool Run Results/ Potential Repairs: July 22, 2020

Enhanced Survey Analysis Results/ Potential Repairs: TBD, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting pigging operations on its 6” G-10 Line. During the tool runs, the following meter may experience lower than desired pressure:

MR 00011 – TAUNTON (BRISTOL, MA)

Although the G-10L-12” line remains in service, depending on the results of the ILI Tool run and if further detailed investigations are required, the following meters may experience lower than desired pressures:

MR 00011 – TAUNTON (BRISTOL, MA)

C System Line C-7-12”:

Cleaning Tool Date: TBD, 2020

In-Line Tool Date: Complete

Tool Run Results/ Potential Repairs: August 31, 2020

Enhanced Survey Analysis Results/ Potential Repairs: TBD, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting pigging operations on its 12” C-7 Line. During the tool runs, the following meter may experience lower than desired pressure:

MR 00820 – WALLINGFORD ENERGY INTERCONNECT (FAIRFIELD,CT)

MR 00831 – CMEEC-PIERCE POWER PLANT-(NEW HAVEN,CT)

Depending on the results of the ILI Tool run and if further detailed investigations are required, the following meter may experience lower than desired pressure or be unavailable for flow:

MR 00820 – WALLINGFORD ENERGY INTERCONNECT (FAIRFIELD,CT)

MR 00831 – CMEEC-PIERCE POWER PLANT-(NEW HAVEN,CT)

16"/12"/10" G System Line G-1:

As part of AGT's comprehensive integrity assessment of its pipeline system, AGT will be conducting pipeline outages on its 16"/12"/10" G System. As a result of these investigations, capacity to the G System will be reduced to the approximate capacities on the following dates:

<u>Date:</u>	<u>Capacity:</u>
Sept 21 – Oct 4	472,000 Dth/d
Oct 5 – Oct 19	422,000 Dth/d

Based on historical nominations, AGT anticipates restrictions to interruptible and secondary services.

I System Line I-9-24":

Cleaning Tool Date: October 26, 2020

In-Line Tool Date: October 27, 2020

Tool Run Results/ Potential Repairs: TBD, 2020

Enhanced Survey Analysis Results/ Potential Repairs: TBD

As part of AGT's comprehensive integrity assessment of its pipeline system, AGT will be conducting pigging operations on its 24" I-9 Line. AGT will coordinate with downstream point operators to minimize operational impact:

MR 00834 – BELD - BRAINTREE ELECTRIC LIGHT (NORFOLK,MA)
MR 00803 – FORE RIVER (NORFOLK,MA)

Depending on the results of the ILI Tool run and if further detailed investigations are required, the following meters may be unavailable for flow:

MR 00834 – BELD - BRAINTREE ELECTRIC LIGHT (NORFOLK,MA)
MR 00803 – FORE RIVER (NORFOLK,MA)

Additionally, if an isolation is necessary, the following meters may have to source their supply from MR 00215 – SALEM ESSEX CO., MA (ESSEX,MA) and may have lower than desired pressures:

MR 00803 – FORE RIVER (NORFOLK,MA)
MR 00827 – NATIONAL GRID-WEYMOUTH (NORFOLK,MA)
MR 00834 – BELD - BRAINTREE ELECTRIC LIGHT (NORFOLK,MA)
MR 00837 – SALEM HARBOR STATION

Furthermore, in this scenario, meter 00215 – SALEM ESSEX CO., MA (ESSEX,MA) will be unavailable for flow to all locations except for the meters previously stated.

E System Line E-1-6”:

Detailed Investigation Dates: September 9 – 19, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting further detailed investigations on its E-1-6” Line. During these investigations, the following meter may experience lower than desired pressure:

MR 000007 - Waterford (New London, CT)

AGT does not anticipate further restrictions associated with these investigations at this time, however, if as a result of these investigations and restrictions are required which result in a reduction of capacity to the following meter; AGT will post on its EBB as soon as it is known.

E System Line E-1-16”:

September 4 - 16, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting further detailed investigations on its 16” E-1 Line. As a result of these investigations, capacity to the E System will be reduced from a seasonal capacity to approximately 43,000 Dth/d. AGT also anticipates operating pressures on the E System to be lower than historically seen during these investigations.

Based on historical nominations AGT doesn’t anticipate restrictions at this time. However, if flow patterns change, restrictions may be required for interruptible, secondary and potentially primary firm services.

I System Line I-1-10/12”:

TBD Early October, 2020

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting detailed investigations on its 10/12” I-1 Line. As a result of these investigations, the following meter will be unavailable for flow:

MR 00061 – WOODLAND RD (NORFOLK,MA)

Additionally, as a result of these investigations, the following meters may experience lower than desired pressures:

MR 00022 – WESTWOOD (NORFOLK, MA)

MR 00838 – NATIONAL GRID - WEST ROXBURY

J System 2020 Outages:

J System Line J-1:

See Below for Valve Section Specific Dates

As part of AGT's comprehensive integrity assessment of its pipeline system, AGT has determined that further detailed investigations are required on its J System Line 1. At this time, the number of gas days impacted is an estimate only; and will be updated once the work plan has been developed and work has commenced. Any changes to the list below will be posted at the earliest practical date. To the extent feasible, AGT will coordinate with downstream point operators to minimize operational/imbalance impacts.

The following meters could potentially be impacted by these detailed investigations:

MR 00027 - NATIONAL GRID- EVERETT (MIDDLESEX, MA)
MR 00028 - BROOKFORD ST (MIDDLESEX, MA)
MR 00032 - NATIONAL GRID-WALTHAM (MIDDLESEX, MA)
MR 00057 - NATIONAL GRID-WESTON (MIDDLESEX, MA)
MR 00074 - NATIONAL GRID-WELLESLEY (NORFOLK, MA)
MR 00080 - NATIONAL GRID-POLAROID (MIDDLESEX, MA)
MR 00089 - NATIONAL GRID-MEDFORD (MIDDLESEX, MA)
MR 00206 - LINCOLN (MIDDLESEX, MA)
MR 00271 - EVERETT INT. (MIDDLESEX, MA)
MR 00826 - MYSTIC (MIDDLESEX, MA)

The tentative schedule for valve section detailed investigations/isolations is as follows:

Valve Section 1:

Detailed Investigations Dates: September 18 – September 30, 2020

During these detailed investigation dates meters 00027, 00028, 00032, 00057, 00074, 00080, 00089 and 00826 are required to schedule any physical takes from meters 00206 and 00271.

Valves Section 3:

Tentative Isolation Dates: October 3 – October 11, 2020

During the isolation dates meters 00027, 00028, 00089 and 00826 are required to schedule any physical takes from meters 00206 and 00271. Additionally, meters 00032 and 00080 will be unavailable for flow during this time.

Additionally, meters 00032 and 00080 will be unavailable for flow during this time.

Furthermore, during the isolation dates, deliveries to meters within the isolated area sourced from outside the isolated area and receipts from meters or head of laterals within the isolated area for delivery outside of the isolated area, will not be allowed.

J System: Line J-1 Section 1 (Valve Section 1-3):

Cleaning Tool Date: Complete
Gauge Tool Date: Complete
ILI Tool: Complete
Tool Run Results/ Potential Repairs: Under Review

Depending on the results of the ILI Tool run and if further detailed investigations are required, the following meter may experience lower than desired pressure and/or be unavailable for flow:

MR 00027 - NATIONAL GRID- EVERETT (MIDDLESEX, MA)
MR 00028 - BROOKFORD ST (MIDDLESEX, MA)
MR 00032 - NATIONAL GRID-WALTHAM (MIDDLESEX, MA)
MR 00057 - NATIONAL GRID-WESTON (MIDDLESEX, MA)
MR 00074 - NATIONAL GRID-WELLESLEY (NORFOLK, MA)
MR 00080 - NATIONAL GRID-POLAROID (MIDDLESEX, MA)
MR 00089 - NATIONAL GRID-MEDFORD (MIDDLESEX, MA)
MR 00826 - MYSTIC (MIDDLESEX, MA)

Additionally, if an isolation of the line is required, the stated meters downstream of the isolated valve section will be required to source their supply from the following meters:

MR 00206 - LINCOLN INT. (MIDDLESEX,MA)
MR 00271 - EVERETT INT. (MIDDLESEX,MA)

J System Line J-2:

Cleaning Tool Date: Complete
ILI Tool: Complete
Tool Run Results/ Potential Repairs: September 15, 2020

Depending on the results of the ILI Tool run and if further detailed investigations are required, the following meter may experience lower than desired pressure:

MR 00826 - MYSTIC (MIDDLESEX, MA)

**J System Line J-7:
Pipeline Outage: October 9 – 10, 2020**

As part of AGT's comprehensive integrity assessment of its pipeline system, AGT will be conducting pipeline outages on its J-7 Line. During these outages, the following meter will be unavailable for flow:

MR 00032 - NATIONAL GRID-WALTHAM (MIDDLESEX, MA)

**J System Line J-3:
Pipeline Outage: October 12 – 14, 2020**

As part of AGT's comprehensive integrity assessment of its pipeline system, AGT will be conducting pipeline outages on its J-7 Line. During these outages, the following meter will be unavailable for flow:

MR 00206 - LINCOLN INT. (MIDDLESEX,MA)

24" Main Line - Burrillville to End Of Line (EOL) Detailed Investigations:

As part of AGT's comprehensive integrity assessment of its pipeline system, AGT will be conducting further detailed investigations on its 24" Main Line from the Burrillville compressor station to the EOL in valve sections 6 - 8.

The tentative schedule for valve sections 6-8 detailed investigations/isolation is as follows:

Valve Section 7:

Detailed Investigation Dates: July 15 – October 2, 2020

Isolation Dates: September 18 – September 30, 2020

Valve Section 8:

Detailed Investigation Dates: July 15 – October 2, 2020

Isolation Dates: September 18 – September 30, 2020

During the isolation dates in valve sections 7 and 8, the capacity to the J-System will be reduced to 0 Dth/d.

Additionally, during the isolation, the following meters will be unavailable for flow:

MR 00038 - CHARLES RIVER RD (NORFOLK,MA)

MR 00066 - DOVER (NORFOLK,MA)

If as a result of these detailed investigations and restrictions are required which result in a further reduction of capacity or isolations; AGT will post on its EBB as soon as it is known.

Algonquin DOT Pipeline Integrity Project

As part of AGT’s comprehensive integrity assessment of its pipeline system, AGT will be conducting in-line inspection tool runs at various locations throughout the Algonquin pipeline system. As a result of these in-line inspections, certain locations could be identified for an investigation which could lead to possible reduction of capacity. Should any of these investigations lead to a reduction of capacity, AGT will post on the bulletin board as soon as it is known. Listed below are the pipeline segments scheduled for inspection this year. Each segment will have a caliper tool run and an ILI tool run. Also listed below are the dates of a possible investigation as a result of the in-line inspection.

	Caliper Date	ILI Date	Tool Run Results/ Potential Repairs
26” ML Lamb to VLV 13B	TBD	Complete	In progress
26” ML Lamb to VLV 13B	TBD	Complete	In progress
26” ML Lamb to VLV 13B	TBD	Complete	In progress
26” Stony Point to Southeast	TBD	Complete	In Progress
26” Stony Point to Southeast	TBD	Complete	In Progress
42” VLV 13B to Southeast	TBD	Complete	07/31/20
12” E System E-3	TBD	Complete	06/02/20
6” N System N-1	TBD	Complete	07/18/20
8” G System G-3	TBD	Complete	06/30/20
6” G System G-10	TBD	TBD	TBD
12” C System C-7	TBD	Complete	08/31/20
24” I System Line I-9	TBD	10/27/20	TBD
10”/12” I System I-1	TBD	TBD	TBD
8” M System M-2	TBD	TBD	TBD
22” J System Section 1	Complete	Complete	06/15/20
24” J System Section 1	Complete	Complete	07/15/20
26” J System Section 1	Complete	Complete	07/15/20
14” J System J-2	TBD	Complete	09/15/20

Algonquin DOT Pipeline Integrity Project

As a result of AGT's comprehensive integrity assessment of its pipeline system, the following locations have been identified as requiring additional evaluation which may require a reduction of capacity. Should any of these investigations lead to a reduction of capacity, AGT will post on the bulletin board as soon as it is known:

Stony Point to Southeast 26" ML
Southeast to Cromwell 26" ML
Oxford to Cromwell L36A
Oxford to Cromwell 24" ML
Burrillville to EOL 24" ML
B System Line B-1L 12"
C System Line C-5 8"
E System Line E-1 6"
E System Line E-1 16"
E System Line E-1L-10"
G System Line G-1 16"
G System Line G-1 12"
G System Line G-1 10"
G System Line G-5 10"
I System Line I-1 10"/12"
I System Line I-2L 16"
I System Line I-9 24"
J System Line J-10 12"
T System Line T-1 6"
Q System Q-1 24"
Y System Line Y-1 12"

AGT MAINLINE OPERATIONAL CAPACITY MATRIX

Below is an operational capacity matrix of anticipated AGT mainline capacities based on major outages know to date that will affect the mainline capacity on the AGT system for the outage season. Due to unforeseen delays or scheduling conflicts, the dates and capacities listed below are subject to change. In addition, this matrix may not be a complete list of all capacities based on major outages that will occur this outage season and we reserve the right to update this list to reflect additional capacity reductions based on major outages when the timing of such major outages can be reasonably forecasted. Any changes to the matrix below will be posted at the earliest practical date.

	Stony Point	Southeast	Oxford	Cromwell	Burrillville
13-Sep	1,451	1,433	1,128	1,078	868
Sept 14-Sept 18	1,321	1,306	1,000	952	745
Sept 19- Sept 21	1,451	1,433	1,128	1,078	802
Sep 22-24	1,866	1,847	1,433	1,157	826
25-Sep	1,866	1,847	1,433	1,157	566
Sept 26-Sept 27	1,866	1,847	1,433	1,181	859
28-Sep	1,866	1,847	1,433	1,181	506
Sept 29 - Nov 15	TBD	TBD	TBD	TBD	TBD