

**KEENE – CNG CONVERSION
PROPOSED PURGE PLAN
CONVERSION SECTION 1**

(To be used in conjunction with O&M Manual sections Chapters 5, 6, 7, and 9)

Job Order Number: 43C18821-18304

Two Way Feed: ☐ One Way Feed: ☒ (Flow Arrows Indicated on Sketch)

Bypass Needed? No Size: Choose size"

Tie-In Reference Locations: Chili's

Originator Signature: *Brian R. Frost*

1. SEE SOP call Gas Control at beginning of Phase 1 Conversion.

2. Person in charge will review purge plan with crew performing job and will determine the number of crew members needed.
3. Close all valves on risers within scope of work and disconnect service after valve.
4. Begin converting all customer appliances and meter fits within scope to accommodate natural gas.
5. Close valves V1, V2, V3, V4, V13, and buried service line valve to Chili's.
6. Install flare set up on Long Horn Steakhouse service (PB-R1), insure flare set up is 50' from any structure.
7. Install nitrogen injection set up at I-1.
8. Begin flaring operation, then open valve V2.
9. Inject nitrogen at I-1 and purge main towards flare PB-R1. Once flame goes out confirm CGI reading of 1% or less gas at flare point.
10. Temporarily stop injecting nitrogen at I-1, disconnect flare set up at Long Horn and secure service.
11. Install flare set up at PB-R8, insure flare set up is 50' from any structure.
12. Begin flaring operation, then open valve V13.
13. Resume nitrogen injection at I-1, and purge main towards flare PB-R8. Once flame goes out confirm CGI reading of 1% or less gas at flare point. Secure service.
14. Install flare set up at Chili's server (PB-R9), insure flare set up is 50' from any structure.
15. Begin flaring operation, then open buried service line valve to Chili's.
16. Resume nitrogen injection at I-1, and purge main towards flare PB-R9. Once flame goes out confirm CGI reading of 1% or less gas at flare point.
17. Stop injecting nitrogen at I-1, disconnect flare set up at PB-R9 and secure service.
18. Close valve V2.
19. Each riser valve in the conversion section shall be replaced before completing the pressure test. Valve replacement may be completed at any time before the test as long as the gas service is depressurized. Before testing open riser valves and plug or blind flange ends.

20. Conduct 2 hour 90 psig pressure test on mains and services within scope to establish 60 psig MAOP. Use air as the test medium. After test depressurize pipe.
21. Once pressure test is complete, open valve V2. Close valve V13 and buried service line valve to Chili's.
22. Open purge point at PB-R1, and inject 1 tank slug of nitrogen at I-1 to start purge into service.
23. Slowly open valve V1 and continue purge into service with natural gas towards purge point PB-R1. Continue until three readings of 95-100% gas at purge point.
24. Remove purge point set up at PB-R1.
25. Open purge point PB-R8, then slowly open valve V13 to purge main into service with natural gas. Confirm three readings of 95-100% gas at purge point.
26. Remove purge point set up at PB-R8.
27. Open purge point PB-R9, then slowly open buried service line valve to Chili's to purge service into service with natural gas. Confirm three readings of 95-100% gas at purge point.
28. Remove purge point set up at PB-R9, nitrogen/air injection set up, and cap fittings.
29. Reconnect all customers within scope of work and begin relights once customer conversions are complete.
30. Leak survey all gas mains and services within conversion section 1.
31. SEE SOP call Gas Control at completion of Phase 1 Conversion.

**KEENE – CNG CONVERSION
PROPOSED PURGE PLAN
CONVERSION SECTION 2**

(To be used in conjunction with O&M Manual sections Chapters 5, 6, 7, and 9)

Job Order Number: 43C18821-18304

Two Way Feed: ☐ One Way Feed: ☒ (Flow Arrows Indicated on Sketch)

Bypass Needed? No Size: Choose size"

Tie-In Reference Locations: Price Chopper

Originator Signature: *Brian R. Frost*

1. SEE SOP call Gas Control at beginning of Phase 2 Conversion.

2. Person in charge will review purge plan with crew performing job and will determine the number of crew members needed.
3. Close all valves on risers within scope of work and disconnect service after valve.
4. Begin converting all customer appliances and meter fits within scope to accommodate natural gas.
5. Close valves V5 and V6. Verify that valves V3 and V4 remain closed from the last phase.
6. Install flare set up on Old Party Store service (PB-R2), insure flare set up is 50' from any structure.
7. Install nitrogen injection set up at I-2.
8. Begin flaring operation.
9. Inject nitrogen at I-2 and purge main towards flare at PB-R2. Once flame goes out confirm CGI reading of 1% or less gas at flare point PB-R2. Temporarily stop injecting nitrogen at I-2 and secure service.
10. Move flare setup to I-5. Resume nitrogen injection at I-2 and purge towards flare at I-5. Once flame goes out confirm CGI reading of 1% or less gas at flare point I-5. Secure I-5.
11. Each riser valve in the conversion section shall be replaced before completing the pressure test. Valve replacement may be completed at any time before the test as long as the gas service is depressurized. Before testing open riser valves and plug or blind flange ends.
12. Conduct 2 hour 90 psig pressure test on mains and services within scope to establish 60 psig MAOP. Use air as the test medium. After test depressurize pipe.
13. Once pressure test is complete, open valve V4.
14. Open purge point at PB-R2, and inject 1 tank slug of nitrogen at I-2 to start purge into service.
15. Slowly open valve V3, and continue purge into service with natural gas towards purge point PB-R2. Continue until three readings of 95-100% gas at purge point.
16. Simultaneously close purge point at PB-R2 and open purge point at I-5. Continue purge into service at I-5 until three readings of 95-100%.
17. Remove purge point set ups, nitrogen injection set up, and cap fittings.

18. Reconnect all customers within scope of work and begin relights once customer conversions are complete.
19. Leak survey all gas mains and services with conversion section 2.
20. SEE SOP call Gas Control at completion of Phase 2 Conversion.

**KEENE – CNG CONVERSION
PROPOSED PURGE PLAN
CONVERSION SECTION 3**

(To be used in conjunction with O&M Manual sections Chapters 5, 6, 7, and 9)

Job Order Number: 43C18821-18304

Two Way Feed: ☐ One Way Feed: ☒ (Flow Arrows Indicated on Sketch)

Bypass Needed? No Size: Choose size"

Tie-In Reference Locations: NH Liquor Store

Originator Signature: *Brian R. Frost*

1. SEE SOP call Gas Control at beginning of Phase 3 Conversion.

2. Person in charge will review Purge plan with crew performing job and will determine the number of crew members needed.
3. Close all valves on risers within scope of work and disconnect service after valve.
4. Begin converting all customer appliances and meter fits within scope to accommodate natural gas.
5. Close valves V7 and V8. Verify that valves V5 and V6 remain closed from the last phase.
6. Close buried service line valve to Michael's.
7. Install flare set up on NH Liquor Store service (PB-R3), insure flare set up is 50' from any structure.
8. Install nitrogen injection set up at I-3.
9. Begin flaring operation.
10. Inject nitrogen at I-3 and purge main towards flare at PB-R3. Once flame goes out confirm CGI reading of 1% or less gas at flare point.
11. Temporarily stop injecting nitrogen at I-3, disconnect flare set up from NH Liquor Store meter fit and secure service.
12. Install flare set up on Michael's's service (PB-R4), insure flare set up is 50' from any structure.
13. Begin flaring operation, then open buried service line valve to Michael's.
14. Resume nitrogen injection at I-3, and purge main with air towards flare at PB-R4. Once flame goes out confirm CGI reading of 1% or less gas at flare point. Secure service.
15. Each riser valve in the conversion section shall be replaced before completing the pressure test. Valve replacement may be completed at any time before the test as long as the gas service is depressurized. Before testing open riser valves and plug or blind flange ends.
16. Conduct 2 hour 90 psig pressure test on mains and services within scope to establish 60 psig MAOP. Use air as test medium. After test depressurize pipe.
17. Once pressure test is complete, open valve V6 and close the buried service valve to Michael's.
18. Open purge point at PB-R3, and inject 1 tank slug of nitrogen at I-3 to start purge into service.
19. Slowly open valve V5 and continue purge into service with natural gas towards purge point PB-R3. Continue until three readings of 95-100% gas at purge point.

20. Open purge point PB-R4, then slowly open buried service valve to Michael's to purge service into service with natural gas. Confirm three readings of 95-100% gas at purge point.
21. Remove purge point set ups, and nitrogen/air injection set up and cap fittings.
22. Reconnect all customers within scope of work and begin relights once customer conversions are complete.
23. Leak survey all gas mains and services with conversion section 3.
24. SEE SOP call Gas Control at completion of Phase 3 Conversion.

**KEENE – CNG CONVERSION
PROPOSED PURGE PLAN
CONVERSION SECTION 4**

(To be used in conjunction with O&M Manual sections Chapters 5, 6, 7, and 9)

Job Order Number: 43C18821-18304

Two Way Feed: ☐ One Way Feed: ☒ (Flow Arrows Indicated on Sketch)

Bypass Needed? No Size: Choose size"

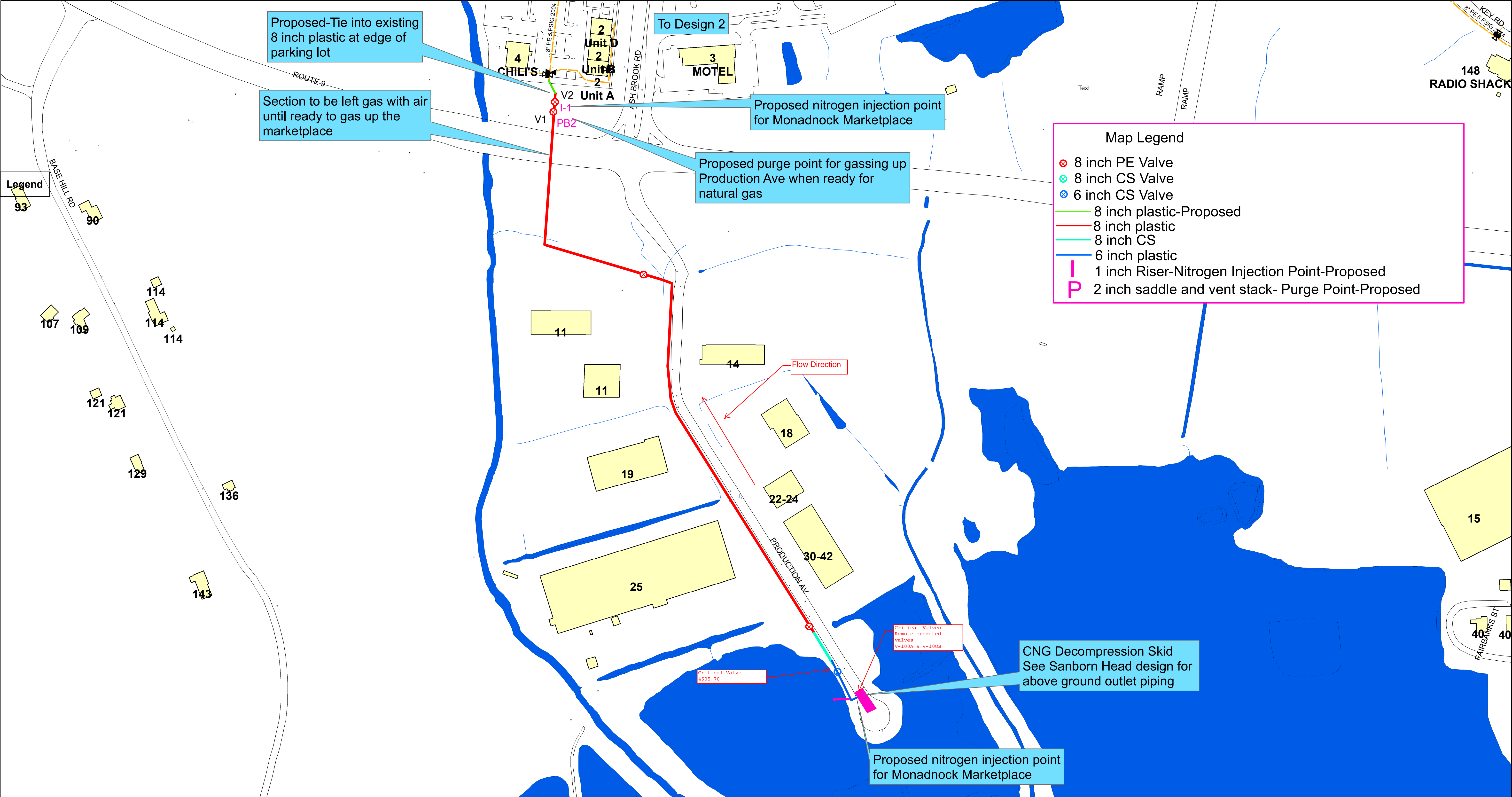
Tie-In Reference Locations: Key Rd

Originator Signature: *Brian R. Frost*

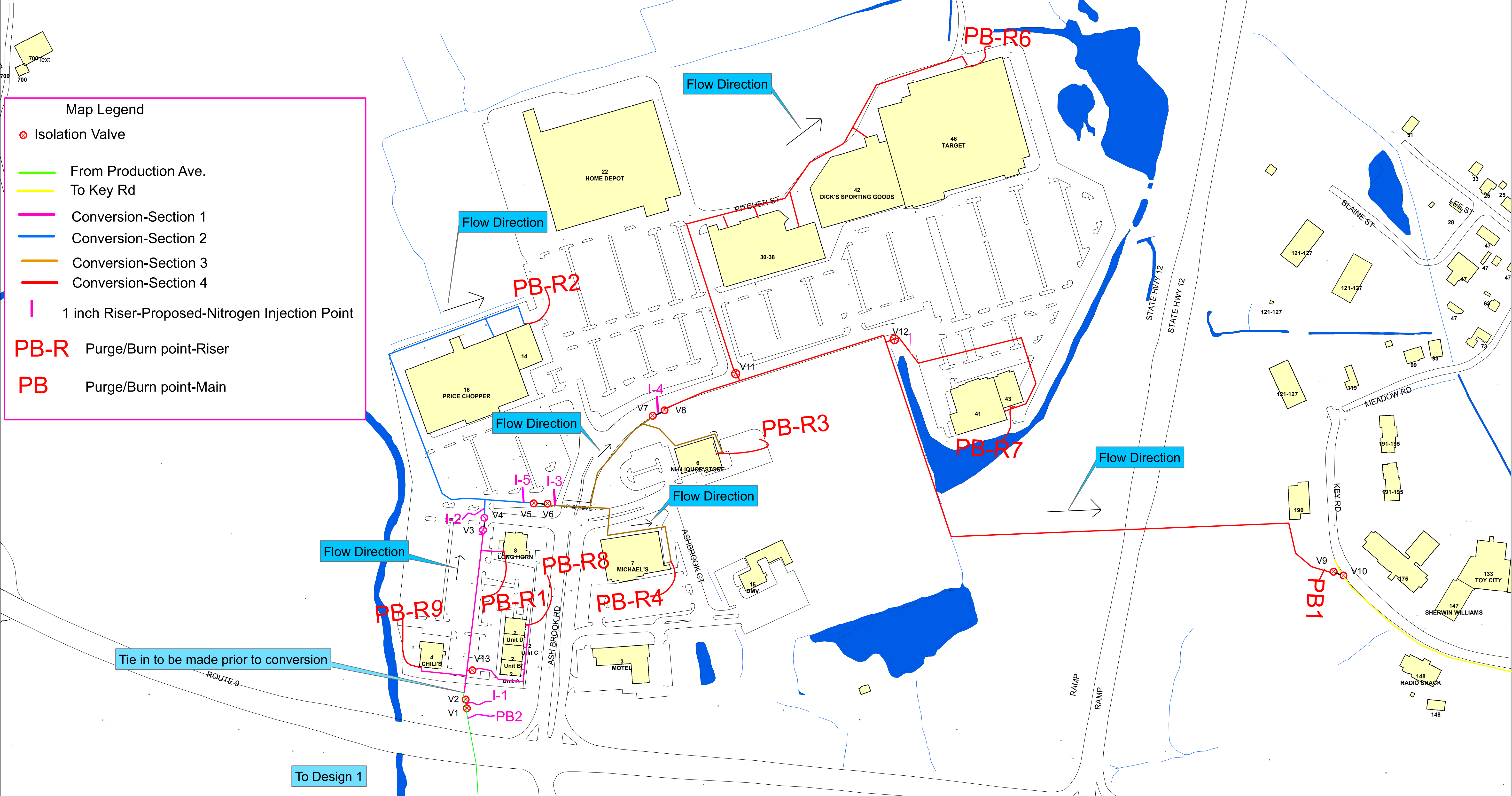
1. SEE SOP call Gas Control at beginning of Phase 4 Conversion.

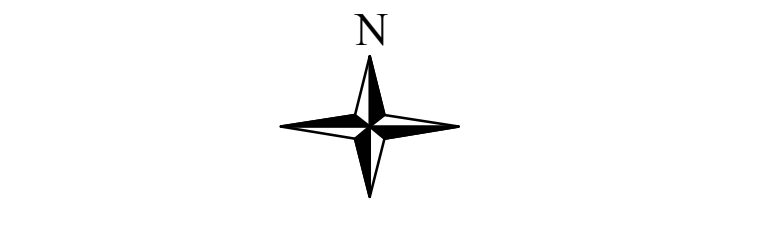

2. Person in charge will review purge plan with crew performing job and will determine the number of crew members needed.
3. Close all valves on risers within scope of work and disconnect service after valve.
4. Begin converting all customer appliances and meter fits within scope to accommodate natural gas.
5. Close valves V9, V10, V11 and V12. Verify that valves V7 and V8 remain closed from the last phase.
6. Install flare set up on PB1 on Key Rd, insure flare set up is 50' from any structure.
7. Install nitrogen injection set up at I-4.
8. Begin flaring operation, then open valve V8.
9. Inject nitrogen at I-4 and purge main towards flare at PB1. Once flame goes out confirm CGI reading of 1% or less gas at flare point.
10. Temporarily stop injecting nitrogen at I-4 and secure PB1.
11. Install flare set up at PB-R7 on Planet Fitness service, insure flare set up is 50' from any structure.
12. Begin flaring operation, then open valve V12.
13. Resume nitrogen inject at I-4 and purge main towards flare at PB-R7. Once flame goes out confirm CGI reading of 1% or less gas at flare point.
14. Temporarily stop injecting nitrogen at I-4 and secure service.
15. Install flare set up at PB-R6 on Target Store service, insure flare set up is 50' from any structure.
16. Begin flaring operation, then open valve V11.
17. Resume nitrogen injection at I-4, and purge main towards flare at PB-R6. Once flame goes out confirm CGI reading of 1% or less gas at flare point.
18. Stop nitrogen injection at I-4 and secure service.
19. Close valve V8.
20. Each riser valve in the conversion section shall be replaced before completing the pressure test. Valve replacement may be completed at any time before the test as long as the gas service is depressurized. Before testing open riser valves and plug or blind flange ends.
21. Conduct 2 hour 90 psig pressure test on mains and services within scope to establish 60 psig MAOP. Use air as test medium. After test depressurize pipe.
22. Once pressure test is complete, open valve V8, and close valves V11 and V12.

23. Open purge point at PB1, and inject 1 tank slug of nitrogen at I-4 to start purge into service.
24. Slowly open valve V7 and continue purge into service with natural gas towards purge point PB1. Continue until three readings of 95-100% gas at purge point.
25. Remove purge point setup at PB1.
26. Open purge point PB-R7, then slowly open valve V12 to purge main into service with natural gas. Confirm three readings of 95-100% gas at purge point.
27. Remove purge point setup at PB-R7.
28. Open purge point PB-R6, then slowly open valve V11 to purge main into service with natural gas. Confirm three readings of 95-100% gas at purge point.
29. Remove purge flare set up at PB-R6, and nitrogen/air injection set up and cap fittings.
30. Reconnect all customers within scope of work and begin relights once customer conversions are complete.
31. Leak survey all gas mains and services with conversion section 4.
32. At interface of propane air system and natural gas system located at valves V9 and V10, cut and cap system between valves to separate system.
33. Open valves V9 and V10.
34. SEE SOP call Gas Control at completion of Phase 4 Conversion.



ENGINEERING DESIGN - Proposed Sectionalizing Plan		<div><div><div><div></div><div>N</div></div><div><div>250</div><div>125</div><div>0</div><div>250</div><div>Feet</div></div></div><div>NOTE: The location of surface and underground objects shown are not warranted to be correct.</div></div>		ENGINEER	S.Furey	SIZE	6 & 8 Inch	<div><div>ArcFM</div><div><div><div></div></div></div><div>Liberty Utilities®</div><div>WATER GAS ELECTRIC</div></div>
11 to 43 Production Ave - Keene, NH- Design 1 of 2				DATE	12/31/2018	MATERIAL	PE & CS	
The purpose of the following plan is to install and gas up the new line on Production Ave (from CNG skid).This line will eventually feed Monadnock Marketplace. 830 feet of 8 inch plastic under route 9 (not tied in)was installed in late 2016. Install aprox 1200 feet of 8 inch plastic (and valves) from #11 to # 42 Production Ave (At end of new round a bout). Install aprx 220 feet of 8 inch CS and 240 feet of6 inch CS from 8 inch plastic to outlet of CNG skid.				LENGTH		PRESSURE	60 PSIG	
		SECTIONALS		WORK ORDER #	43C18821-18303			



ENGINEERING DESIGN - Proposed Sectionalizing Plan		 <i>NOTE: The location of surface and underground objects shown are not warranted to be correct.</i>		ENGINEER	S.Furey	SIZE	N/A	
Monadnock Marketplace, Keene NH (Design 2 of 2)				DATE	12/31/2018	MATERIAL	N/A	
The purpose of the following plan is to sectionalize sections of Monadnock Marketplace in order to convert the system from propane air to natural gas. Double valves and 1 inch risers in valve boxes will be utilized for sectionalizing, and purging		LENGTH		PRESSURE	60 PSIG	43C18821-18304		
		SECTIONALS		WORK ORDER #				

**KEENE – CNG CONVERSION
CONTINGENCY PLAN
CONVERSION SECTION 1**

(To be used in conjunction with O&M Manual sections Chapters 5, 6, 7, and 9)

Job Order Number: 43C18821-18304

Two Way Feed: ☐ One Way Feed: ☒ (Flow Arrows Indicated on Sketch)

Bypass Needed? No Size: Choose size"

Tie-In Reference Locations: Chili's

Originator Signature: *Ben R. Frost*

1. This procedure applies in the event the pressure test on conversion section 1 is unsuccessful. It is intended to restore gas service as soon as possible.
2. Isolate conversion section 1 into multiple pieces by closing V13 and buried service valve to Chili's.
3. Conduct 2 hour 90 psig pressure test on isolated conversion section 1 to establish 60 psig MAOP. Use air as the test medium. After test depressurize pipe.
4. If pressure test is successful then proceed with purging and energizing isolated main section. Otherwise start relay or repair of conversion section 1 gas mains.
5. To start purge of isolated section 1 open valve V2. Install nitrogen tank at I-1 and open purge riser at PB-R1.
6. Inject nitrogen (1 tank slug), immediately slowly open valve V1 so natural gas follows after nitrogen slug, and purge main into service through purge stack located at I-2. Purge until three readings of 95-100% gas at purge point.
7. Once purge is complete fully open valve V1, and remove purge stack at PB-R1.
8. To reinstate gas services, and main at V13, disconnect and test each section separately. Work with customers to reinstate service in a manner that provides least disruption to businesses (for example reinstate service to restaurants first, then to space heating customers second).
9. To reinstate service at Chili's disconnect the service pipe at the buried service valve, retest service according to O&M requirements, make any required repairs or relay service, and purge from main to riser valve.
10. To reinstate service to main downstream of valve V13, disconnect main at V13, pressure test according to O&M requirements, make any required repairs or relay main and services. Shut all buried service valves and purge from V13 to PB-R8. After gas main is energized, purge each service from the buried service valve to the riser.

**KEENE – CNG CONVERSION
CONTINGENCY PLAN
CONVERSION SECTION 2**

(To be used in conjunction with O&M Manual sections Chapters 5, 6, 7, and 9)

Job Order Number: 43C18821-18304

Two Way Feed: ☐ One Way Feed: ☒ (Flow Arrows Indicated on Sketch)

Bypass Needed? No Size: Choose size"

Tie-In Reference Locations: Price Chopper

Originator Signature: *Brian R. Frost*

1. This procedure applies in the event the pressure test on conversion section 2 is unsuccessful. It is intended to restore gas service as soon as possible.
2. Isolate mains and services on conversion section 2 by cutting and capping the 4" PL 5# (2005) main just upstream of the service connection for Price Chopper.
3. Conduct 2 hour 90 psig pressure test on conversion section 2 from V5 to cut and cap point to establish 60 psig MAOP. Use air as the test medium. After test depressurize pipe. Retest services to Price Chopper and old party store separately. After test depressurize pipe.
4. Relay or repair gas facilities where the leak is observed. Once completed connect services back to the main and start purge into service.
5. Set up nitrogen tank at I-2 and open purge point at PB-R2
6. Open valve V4 and inject 1 tank of nitrogen to begin purge into service. Immediately introduce natural gas by opening valve V3 and purging to PB-R2 until three readings of 95-100% gas are observed at purge point PB-R2.
7. Remove purge stacks and nitrogen setup. Cap all fittings.
8. Reconnect all customers and relight.

**KEENE – CNG CONVERSION
CONTINGENCY PLAN
CONVERSION SECTION 3**

(To be used in conjunction with O&M Manual sections Chapters 5, 6, 7, and 9)

Job Order Number: 43C18821-18304

Two Way Feed: ☐ One Way Feed: ☒ (Flow Arrows Indicated on Sketch)

Bypass Needed? No Size: Choose size"

Tie-In Reference Locations: NH Liquor Store

Originator Signature: *Brian R. Frost*

1. This procedure applies in the event the pressure test on conversion section 3 is unsuccessful. It is intended to restore gas service as soon as possible.
2. Isolate section 3 by closing buried service valves to Michael's and the NH Liquor Store.
3. Conduct 2 hour 90 psig pressure test on isolated conversion section 3 to establish 60 psig MAOP. Use air as the test medium. After test depressurize pipe.
4. If pressure test is successful then proceed with purging and energizing isolated main section. Otherwise start relay or repair of conversion section 3 gas mains.
5. To start purge of isolated section 1 open valve V6 and V7. Install nitrogen tank at I-3 and open purge riser at I-4.
6. Inject nitrogen (1 tank slug), immediately slowly open valve V5 so natural gas follows after nitrogen slug, and purge main into service through purge stack located at I-4. Purge until three readings of 95-100% gas at purge point.
7. Once purge is complete, completely close valve V7, fully open valve V5, remove purge stack at I-4, and cap nitrogen connection at I-3.
8. To reinstate gas services, disconnect and test each section separately. Work with customers to reinstate service in a manner that provides least disruption to businesses.
9. To reinstate service at Michael's and the NH Liquor Store disconnect the service pipe at the buried service valve, retest service according to O&M requirements, make any required repairs or relay service, and purge from main to riser valve.

**KEENE – CNG CONVERSION
CONTINGENCY PLAN
CONVERSION SECTION 4**

(To be used in conjunction with O&M Manual sections Chapters 5, 6, 7, and 9)

Job Order Number: 43C18821-18304

Two Way Feed: ☐ One Way Feed: ☒ (Flow Arrows Indicated on Sketch)

Bypass Needed? No Size: Choose size"

Tie-In Reference Locations: Key Rd

Originator Signature: *Brian R. Frost*

1. This procedure applies in the event the pressure test on conversion section 4 is unsuccessful. It is intended to restore gas service as soon as possible.
2. Isolate conversion section 4 into three pieces by closing valves V11 and V12. Conduct 2 hour 90 psig pressure test on primary piping run from V8 to V9 to establish 60 psig MAOP. Use air as the test medium. After test depressurize pipe.
3. If pressure test is successful on primary piping run between valves V11 and V12 then proceed with purging and energizing isolated main section. Otherwise start relay or repair of gas mains.
4. To start purge of the primary piping run of section 4 open valve V8. Install nitrogen tank at I-4 and open purge riser at PB1.
5. Inject nitrogen (1 tank slug), immediately slowly open valve V7 so natural gas follows after nitrogen slug, and purge main into service through purge stack located at PB1. Purge until three readings of 95-100% gas at purge point.
6. Once purge is complete, completely close the valve on purge stack PB1, fully open valve V7, and remove purge stack at PB1.
7. To reinstate service to main downstream of valve V11, disconnect main at V11, pressure test according to O&M requirements, after test depressurize pipe, and relay or repair main and services. Shut all buried service valves and purge from V11 to PB-R6. After gas main is energized, purge each service from the buried service valve to the riser.
8. To reinstate service to main downstream of valve V12, disconnect main at V12, pressure test according to O&M requirements, after test depressurize pipe, and relay or repair main and services. Shut all buried service valves and purge from V12 to PB-R7. After gas main is energized, purge each service from the buried service valve to the riser.

Supervisors can print a copy of this APPROVED SOP and review with field personnel.

Gas Control should check the **GREEN** box in the "SOP STEPS" section to change this SOP to INPRG. **SAVE** then close form

APPROVED

Author

Created	<input type="text" value="9/11/2017"/>	SOP Status	<input type="text" value="APPROVED"/>
SOP/WO#	<input type="text" value="43C18821-18303"/>	Rev #	<input type="text" value="4"/>
Emp	<input type="text" value="Brian.Frost@libertyutilities.com"/>	Emp #	<input type="text" value="9784"/>
Cell #	<input type="text" value="603-475-9143"/>	Dept.	<input type="text" value="Engineering"/>

Job Location

Division	<input type="text" value="Southern"/>	Town	<input type="text" value="Keene"/>
On Street	<input type="text" value="KNE Monadnock Marke..."/>	Cross St #1	<input type="text"/>
Cross St #2	<input type="text"/>	Cross St #3	<input type="text"/>

SOP Details

Est. Start Date	<input type="text" value="9/23/2019"/>	Job Type	<input type="text" value="Supply"/>
System Pressure	<input type="text" value="60 PSI"/>	Nature of Work	<input type="text" value="Other"/>

Within 200' of a regulator Station or new main is > 2500'

Are there multiple pressures within work zone

Scope

Convert Manadnock Market Place from Propane-Air to Natural Gas and purge new main into service on Production Ave.

<input type="text" value="43C18821-18303"/>	<input type="text" value="4"/>	SOP STEPS
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Gas Control 603-216-3621

In Progress ☒ In Progress By

STEP 1

Critical Step, Mobilization - Notify Gas Control the first day on site GAS CONTROL - (603) 216-3621

Is this a critical step

Min Pressure / Min Temp

Are there multiple pressures in work zone /

STEP 2

NOTE: Prior to this SOP, CNG Skid to be brought online and purged with gas through regulators up to 60 psig distribution system regulator inlet block valves. Confirm with I&R before continuing with steps contained within in this SOP.

Is this a critical step

Min Pressure / Min Temp

Are there multiple pressures in work zone /

STEP 3

Make sure blocking valves (V1 and V2) separating Propane-Air system from newly active Keene Natural Gas system are closed and properly marked to prevent inadvertent opening.

Is this a critical step

Min Pressure / Min Temp

Are there multiple pressures in work zone /

STEP 4

Install purge riser at PB2 the end of newly installed 8" PE (see attached map).

Is this a critical step



Min Pressure / Min Temp

Are there multiple pressures in work zone /

STEP

5	Open purge riser at PB2 to depressurize air blanket that existed on gas main from CNG skid to valve V2. Keep purge riser PB2 open. Inject 1 tank slug of nitrogen on downstream side of 60 psig distribution system regulators. Immediately after nitrogen injection, open inlet block valves to 60 psig distribution regulators to flow gas and purge main into service until three reading of 95-100% gas reading are obtained at purge point. CALL GAS CONTROL once purge is complete.	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 6	The following conversions must be completed in order to ensure natural gas is available for conversion from Propane-Air to natural can occur. See attached "Combined Purge Plan" CALL GAS CONTROL prior to each conversion phase and once each conversion phase is completed. Prior to each conversion phase, ensure all personal are in place needed for conversion prior to customer shutdowns.	Is this a critical step	NO, call to Gas Control is required	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 7	Call Gas Control Begin Phase 1 Conversion	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 8	Call Gas Control Phase 1 conversion Complete	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 9	Call Gas Control begin Phase 2 Conversion	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 10	Call Gas Control Phase 2 conversion Complete	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 11	Call Gas Control begin Phase 3 Conversion	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 12	Call Gas Control Phase 3 conversion Complete	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 13	Call Gas Control begin Phase 4 Conversion	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 14	Call Gas Control Phase 4 conversion Complete	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		
STEP 15	Critical Step, Notify Gas Control on job completion.	Is this a critical step	YES contact gas Control prior to execution	Min Pressure / Min Temp	40 # / 20 F
		Are there multiple pressures in work zone	YES		

[ADD STEP](#)

 7.2-Purge Plan _Keene_Phases 1-4 Revised 2019-09-25.pdf 120.1 KB	 7.3-Purge Maps Revised 2019-09-24.pdf 1.21 MB
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Comments		
Gas Planning	<input type="text" value="i:0#.w\utilities\amills"/>	<input type="text" value="2018-12-31"/>
<input type="text" value="no issues, Gas Engineering personnel or designee to be onsite for purge in/out steps"/>		
Minimum Pressure	<input type="text" value="40 #"/>	Minimum Temperature <input type="text" value="20 F"/>
I & R	<input type="text" value="i:0#.w\utilities\gclement"/>	<input type="text" value="2017-09-27"/>
<input type="text" value="no issues, I & R personnel will be onsite"/>		
Gas Control	<input type="text" value="i:0#.w\utilities\jridge"/>	<input type="text" value="2017-09-29"/>
<input type="text" value="Reviewed"/>		
Mapping	<input type="text" value="i:0#.w\utilities\arenauld"/>	<input type="text" value="9/28/2017"/>
FIELD CHANGES		
Not Approved		
<input type="checkbox"/>		
<input type="text" value="i:0#.w\utilities\bfrrost"/>		