

New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

DEC ID										
4	-	1	9	2	2	-	0	0	4	9

Application ID										
-					-				/	

Application Type	
* State Facility	Title V

Section I - Certification

Certification	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information required to complete this application, I believe the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.	
Responsible Official Paul R. Amato	Title VP Engineering, Operations and EH+S
Signature	Date
Professional Engineer Certification	
I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments as they pertain to the practice of engineering. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.	
Professional Engineer Ronald E. Schroeder	NYS License No. 073452
Signature	Date April 5, 2021

Section II - Identification Information

Type of Permit Action Requested	
New	Renewal
Significant Modification	Administrative Amendment
* Minor Modification	
Application for the construction of a new facility	
* Application involves the construction of new emission unit(s)	
Facility Information	
Name Athens Compressor Station	
Location Address 915 Schoharie Turnpike	
City / Town / Village Athens	Zip 12015
Owner/Firm Information	
Name Iroquois Pipeline Operating Company	Business Taxpayer ID 061285387
Street Address One Corporate Drive, Suite 600	
City Shelton	State/Province CT
Country USA	Zip 06484
Owner Classification: Federal	State
Municipal	* Corporation/Partnership
Individual	
Owner/Firm Contact Information	
Name James T. Barnes	Phone 203-944-7023
E-mail Address tim_barnes@iroquois.com	Fax 203-925-7213
Affiliation Company	Title Manager, Environmental Services
Street Address One Corporate Drive, Suite 600	
City Shelton	State/Province CT
Country USA	Zip 06484
Facility Contact Information	
Name James T. Barnes	Phone 203-944-7023
E-mail Address tim_barnes@iroquois.com	Fax 203-925-7213
Affiliation Company	Title Manager, Environmental Services
Street Address One Corporate Drive, Suite 600	
City Shelton	State/Province CT
Country USA	Zip 06484

[illegible]

New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

DEC ID									
-					-				

Facility Compliance Certification										☐ Continuation Sheet(s)
Rule Citation										
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause	
☐ Applicable Federal Requirement			☐ Capping		CAS Number		Contaminant Name			
☐ State Only Requirement										
Monitoring Information										
☐ Work Practice Involving Specific Operations ☐ Ambient Air Monitoring ☐ Record Keeping/Maintenance Procedures										
Compliance Activity Description										
Work Practice Type Code	Process Material					Reference Test Method				
	Code	Description								
Monitored Parameter						Manufacturer's Name/Model Number				
	Code	Description								
Limit			Limit Units							
Upper	Lower		Code	Description						
Averaging Method			Monitoring Frequency			Reporting Requirements				
Code	Description		Code	Description		Code	Description			

Facility Emissions Summary				☐ Continuation Sheet(s)
CAS Number	Contaminant Name	Potential to Emit (tons/yr)	Actual Emissions (pounds/yr)	
0NY075 - 00 - 5	PM-10			
0NY750 - 02 - 5	PM-2.5			
007446 - 09 - 5	Sulfur Dioxide	●		
0NY210 - 00 - 0	Oxides of Nitrogen			
000630 - 08 - 0	Carbon Monoxide			
007439 - 92 - 1	Lead (elemental)			
0NY998 - 00 - 0	Total Volatile Organic Compounds	●		
0NY100 - 00 - 0	Total Hazardous Air Pollutants			
0NY750 - 00 - 0	Carbon Dioxide Equivalents	●		

New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

DEC ID									
-						-			

Section IV - Emission Unit Information

Emission Unit Description										☐ Continuation Sheet(s)
Emission Unit	-									

Building Information					☐ Continuation Sheet(s)
Building ID	Building Name	Length (ft)	Width (ft)	Orientation	

Emission Unit	Emission Unit Emissions Summary				☐ Continuation Sheet(s)
-					
CAS Number	Contaminant Name				
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS Number	Contaminant Name				
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS Number	Contaminant Name				
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS Number	Contaminant Name				
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	

New York State Department of Environmental Conservation

Air Permit Application Form



Department of
Environmental
Conservation

DEC ID									
-					-				

Section IV - Emission Unit Information

Emission Unit		Emission Unit Emissions Summary (continuation)			
-					
CAS No.	Contaminant Name				
ERP (lbs/yr)	PTE Emissions		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.	Contaminant Name				
ERP (lbs/yr)	PTE Emissions		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.	Contaminant Name				
ERP (lbs/yr)	PTE Emissions		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.	Contaminant Name				
ERP (lbs/yr)	PTE Emissions		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.	Contaminant Name				
ERP (lbs/yr)	PTE Emissions		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.	Contaminant Name				
ERP (lbs/yr)	PTE Emissions		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS No.	Contaminant Name				
ERP (lbs/yr)	PTE Emissions		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	

New York State Department of Environmental Conservation

Air Permit Application



**Department of
Environmental
Conservation**

DEC ID									
-					-				

Emission Point Information							☐ Continuation Sheet(s)
Emission Point							
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section		
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
Emission Point							
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section		
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
Emission Point							
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section		
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	

Emission Source/Control Information								☐ Continuation Sheet(s)
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model Number	
ID	Type				Code	Description		
Design Capacity	Design Capacity Units			Waste Feed		Waste Type		
	Code	Description		Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model Number	
ID	Type				Code	Description		
Design Capacity	Design Capacity Units			Waste Feed		Waste Type		
	Code	Description		Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model Number	
ID	Type				Code	Description		
Design Capacity	Design Capacity Units			Waste Feed		Waste Type		
	Code	Description		Code	Description	Code	Description	

[illegible]

New York State Department of Environmental Conservation

Air Permit Application



**Department of
Environmental
Conservation**

DEC ID									
-									

Process Emissions Summary										☐ Continuation Sheet(s)			
Emission Unit	-									Process			
CAS Number	Contaminant Name			% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
Potential to Emit				Standard Units	Potential to Emit How Determined	Actual Emissions							
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)							
Emission Unit	-									Process			
CAS Number	Contaminant Name			% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
Potential to Emit				Standard Units	Potential to Emit How Determined	Actual Emissions							
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)							
Emission Unit	-									Process			
CAS Number	Contaminant Name			% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
Potential to Emit				Standard Units	Potential to Emit How Determined	Actual Emissions							
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)							

Emission Source Emissions Summary										☐ Continuation Sheet(s)			
Emission Source										Process			
CAS Number	Contaminant Name			% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
Potential to Emit				Standard Units	Potential to Emit How Determined	Actual Emissions							
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)							
Emission Source										Process			
CAS Number	Contaminant Name			% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
Potential to Emit				Standard Units	Potential to Emit How Determined	Actual Emissions							
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)							
Emission Source										Process			
CAS Number	Contaminant Name			% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
Potential to Emit				Standard Units	Potential to Emit How Determined	Actual Emissions							
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)							

New York State Department of Environmental Conservation

Air Permit Application Form



Department of
Environmental
Conservation

DEC ID									
-									

Section IV - Emission Unit Information

Process Emissions Summary (continuation)														
Emission Unit	-									Process				
CAS No.	Contaminant Name				% Throughput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
PTE				Standard Units	PTE How Determined	Actual								
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)								
Emission Unit	-									Process				
CAS No.	Contaminant Name				% Throughput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
PTE				Standard Units	PTE How Determined	Actual								
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)								
Emission Unit	-									Process				
CAS No.	Contaminant Name				% Throughput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
PTE				Standard Units	PTE How Determined	Actual								
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)								
Emission Unit	-									Process				
CAS No.	Contaminant Name				% Throughput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
PTE				Standard Units	PTE How Determined	Actual								
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)								
Emission Unit	-									Process				
CAS No.	Contaminant Name				% Throughput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined					
PTE				Standard Units	PTE How Determined	Actual								
(lbs/hr)	(lbs/yr)	(standard units)	(lbs/hr)			(lbs/yr)								

New York State Department of Environmental Conservation
Air Permit Application

DEC ID											
	-					-					

[illegible][illegible]

Emission Unit Compliance Certification ☐ Continuation Sheet(s)

[illegible]

☐ Applicable Federal Requirement	☐ State Only Requirement	☐ Capping
---	---	----------------------------------

Emission Unit	Emission Point	Process	Emission Source	CAS Number	Contaminant Name

Monitoring Information	
------------------------	--

☐ Continuous Emission Monitoring	☐ Monitoring of a Process or Control Device Parameters as a Surrogate
☐ Intermittent Emission Testing	☐ Work Practice Involving Specific Operations
☐ Ambient Air Monitoring	☐ Record Keeping/Maintenance Procedures

[illegible]

--

Work Practice Type Code	Process Material		Reference Test Method
	Code	Description	

Monitored Parameter		Manufacturer's Name/Model Number
Code	Description	

Limit		Limit Units	
Upper	Lower	Code	Description

Averaging Method		Monitoring Frequency		Reporting Requirements	
Code	Description	Code	Description	Code	Description

DEC ID									
	-				-				

Determination of Non-Applicability (Title V Applications Only)										☐ Continuation Sheet(s)	
Rule Citation											
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause		
Emission Unit		Emission Point		Process	Emission Source		☐ Applicable Federal Requirement ☐ State Only Requirement				

Non-Applicability Description	

Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
Emission Unit		Emission Point		Process	Emission Source		☐ Applicable Federal Requirement ☐ State Only Requirement		
Non- Applicability Description									

--

Compliance Plan		☐ Continuation Sheet(s)
For any emission units which are not in compliance at the time of permit application, the applicant shall complete the following:		

Consent Order	Certified progress reports are to be submitted every 6 months beginning / /
---------------	---

[illegible][illegible]

New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

DEC ID									
-									
Request for Emission Reduction Credits									
☐ Continuation Sheet(s)									
Emission Source 									
Emission Reduction Description									
Contaminant Emission Reduction Data									
Baseline Period ____ / ____ / ____ to ____ / ____ / ____						Reduction			
						Date		Method	
CAS Number		Contaminant Name				ERC (lbs/yr)			
						Netting		Offset	
Facility to Use Future Reduction									
Name						Application ID			
						- - / 			
Location Address									
☐ City/ ☐ Town / ☐ Village					State			Zip	
Use of Emission Reduction Credits									
☐ Continuation Sheet(s)									
Emission Source 									
Proposed Project Description									
Contaminant Emissions Increase Data									
CAS Number		Contaminant Name				Project Emission Potential (lbs/yr)			
Statement of Compliance									
☐ All facilities under the ownership of this "owner/firm" are operating <u>in compliance</u> with all applicable requirements and state regulations including any compliance certification requirements under Section 114(a)(3) of the Clean Air Act Amendments of 1990, or are meeting the schedule of a consent order.									
Source of Emission Reduction Credit - Facility									
Name						Permit ID			
						- - / 			
Location Address									
☐ City/ ☐ Town / ☐ Village					State			Zip	
Emission Source		CAS Number		Contaminant Name				ERC (lbs/yr)	
								Netting	

New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

DEC ID									
-					-				

List of Exempt Activities

Instructions

Applicants for Title V facility permits must provide a listing of each exempt activity, as described in 6 NYCRR Part 201-3.2(c), that is currently operated at the facility. This form provides a means to fulfill this requirement.

In order to complete this form, enter the number and building location of each exempt activity. Building IDs used on this form should match those used in the Title V permit application. If a listed activity is not operated at the facility, leave the corresponding information blank.

Combustion

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(1)	Stationary or portable combustion installations where the furnace has a maximum heat input capacity less than 10 mmBtu/hr burning fuels other than coal or wood; or a maximum heat input capacity of less than 1 mmBtu/hr burning coal or wood. This activity does not include combustion installations burning any material classified as solid waste, as defined in 6 NYCRR Part 360, or waste oil, as defined in 6 NYCRR Subpart 225-2.		
(2)	Space heaters burning waste oil at automotive service facilities, as defined in 6 NYCRR Subpart 225-2, generated on-site or at a facility under common control, alone or in conjunction with used oil generated by a do-it-yourself oil changer as defined in 6 NYCRR Subpart 374-2.		
(3)(i)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located within the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 200 brake horsepower.		
(3)(ii)	Stationary or portable internal combustion engines that are liquid or gaseous fuel powered and located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury, and have a maximum mechanical power rating of less than 400 brake horsepower.		
(3)(iii)	Stationary or portable internal combustion engines that are gasoline powered and have a maximum mechanical power rating of less than 50 brake horsepower.		
(4)	Reserved.		
(5)	Gas turbines with a heat input at peak load less than 10 mmBtu/hour		

New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

DEC ID									
-					-				

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(6)	Emergency power generating stationary internal combustion engines, as defined in 6 NYCRR Part 200.1(cq), and engine test cells at engine manufacturing facilities that are utilized for research and development, reliability performance testing, or quality assurance performance testing. Stationary internal combustion engines used for peak shaving and/or demand response programs are not exempt.		
Combustion Related			
(7)	Non-contact water cooling towers and water treatment systems for process cooling water and other water containers designed to cool, store or otherwise handle water that has not been in direct contact with gaseous or liquid process streams.		
Agricultural			
(8)	Feed and grain milling, cleaning, conveying, drying and storage operations including grain storage silos, where such silos exhaust to an appropriate emissions control device, excluding grain terminal elevators with permanent storage capacities over 2.5 million U.S. bushels, and grain storage elevators with capacities above one million bushels.		
(9)	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.		
Commercial - Food Service Industries			
(10)	Flour silos at bakeries, provided all such silos are exhausted through an appropriate emission control device.		
(11)	Emissions from flavorings added to a food product where such flavors are manually added to the product.		
Commercial - Graphic Arts			
(12)	Screen printing inks/coatings or adhesives which are applied by a hand-held squeegee. A hand-held squeegee is one that is not propelled though the use of mechanical conveyance and is not an integral part of the screen printing process.		
(13)	Graphic arts processes at facilities located outside the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury whose facility-wide total emissions of volatile organic compounds from inks, coatings, adhesives, fountain solutions and cleaning solutions are less than three tons during any 12-month period.		

New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

DEC ID									
-					-				

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(14)	Graphic label and/or box labeling operations where the inks are applied by stamping or rolling.		
(15)	Graphic arts processes which are specifically exempted from regulation under 6 NYCRR Part 234, with respect to emissions of volatile organic compounds which are not given an A rating as described in 6 NYCRR Part 212.		
Commercial - Other			
(16)	Gasoline dispensing sites registered with the department pursuant to 6 NYCRR Part 612.		
(17)	Surface coating and related activities at facilities which use less than 25 gallons per month of total coating materials, or with actual volatile organic compound emissions of 1,000 pounds or less from coating materials in any 12-month period. Coating materials include all paints and paint components, other materials mixed with paints prior to application, and cleaning solvents, combined. This exemption is subject to the following: (i) The facility is located outside of the New York City metropolitan area or the Orange County towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, or Woodbury; and (ii) All abrasive cleaning and surface coating operations are performed in an enclosed building where such operations are exhausted into appropriate emission control devices.		
(18)	Abrasive cleaning operations which exhaust to an appropriate emission control device.		
(19)	Ultraviolet curing operations.		
Municipal/Public Health Related			
(20)	Landfill gas ventilating systems at landfills with design capacities less than 2.5 million megagrams (3.3 million tons) and 2.5 million cubic meters (2.75 million cubic yards), where the systems are vented directly to the atmosphere, and the ventilating system has been required by, and is operating under, the conditions of a valid 6 NYCRR Part 360 permit, or order on consent.		
Storage Vessels			
(21)	Distillate fuel oil, residual fuel oil, and liquid asphalt storage tanks with storage capacities below 300,000 barrels.		

New York State Department of Environmental Conservation

Air Permit Application



NEW YORK
STATE OF
OPPORTUNITY

Department of
Environmental
Conservation

DEC ID									
-					-				

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(22)	Pressurized fixed roof tanks which are capable of maintaining a working pressure at all times to prevent emissions of volatile organic compounds to the outdoor atmosphere.		
(23)	External floating roof tanks which are of welded construction and are equipped with a metallic-type shoe primary seal and a secondary seal from the top of the shoe seal to the tank wall.		
(24)	External floating roof tanks which are used for the storage of a petroleum or volatile organic liquid with a true vapor pressure less than 4.0 psi (27.6 kPa), are of welded construction and are equipped with one of the following: (i) a metallic-type shoe seal; (ii) a liquid-mounted foam seal; (iii) a liquid-mounted liquid-filled type seal; or (iv) equivalent control equipment or device.		
(25)	Storage tanks, including petroleum liquid storage tanks as defined in 6 NYCRR Part 229, with capacities less than 10,000 gallons, except those subject to 6 NYCRR Part 229 or Part 233.		
(26)	Horizontal petroleum or volatile organic liquid storage tanks.		
(27)	Storage silos storing solid materials, provided all such silos are exhausted through an appropriate emission control device. This exemption does not include raw material, clinker, or finished product storage silos at Portland cement plants.		
Industrial			
(28)	Processing equipment at existing sand and gravel and stone crushing plants which were installed or constructed before August 31, 1983, where water is used for operations such as wet conveying, separating, and washing. This exemption does not include processing equipment at existing sand and gravel and stone crushing plants where water is used for dust suppression.		
(29)(i)	Sand and gravel processing or crushed stone processing lines at a non-metallic mineral processing facility that are a permanent or fixed installation with a maximum rated processing capacity of 25 tons of minerals per hour or less.		

New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

DEC ID									
-					-				

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(29)(ii)	Sand and gravel processing or crushed stone processing lines at a non-metallic mineral processing facility that are a portable emission source with a maximum rated processing capacity of 150 tons of minerals per hour or less.		
(29)(iii)	Sand and gravel processing or crushed stone processing lines at a non-metallic mineral processing facility that are used exclusively to screen minerals at a facility where no crushing or grinding takes place.		
(30)	Reserved.		
(31)	Surface coating operations which are specifically exempted from regulation under 6 NYCRR Part 228, with respect to emissions of volatile organic compounds which are not given an A rating pursuant to 6 NYCRR Part 212.		
(32)	Pharmaceutical tablet branding operations.		
(33)	Thermal packaging operations, including, but not limited to, thermimage labeling, blister packing, shrink wrapping, shrink banding, and carton gluing.		
(34)	Powder coating operations.		
(35)	All tumblers used for the cleaning and/or deburring of metal products without abrasive blasting.		
(36)	Presses used exclusively for molding or extruding plastics except where halogenated carbon compounds or hydrocarbon solvents are used as foaming agents.		
(37)	Concrete batch plants where the cement weigh hopper and all bulk storage silos are exhausted through fabric filters, and the batch drop point is controlled by a shroud or other emission control device.		
(38)	Cement storage operations not located at Portland cement plants where materials are transported by screw or bucket conveyors.		
(39)(i)	Cold cleaning degreasers with an open surface area of 11 square feet or less and an internal volume of 93 gallons or less or, having an organic solvent loss of 3 gallons per day or less.		
39(ii)	Cold cleaning degreasers that use a solvent with a VOC content of five percent or less by weight, unless subject to the requirements of 40 CFR 63 Subpart T.		

New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

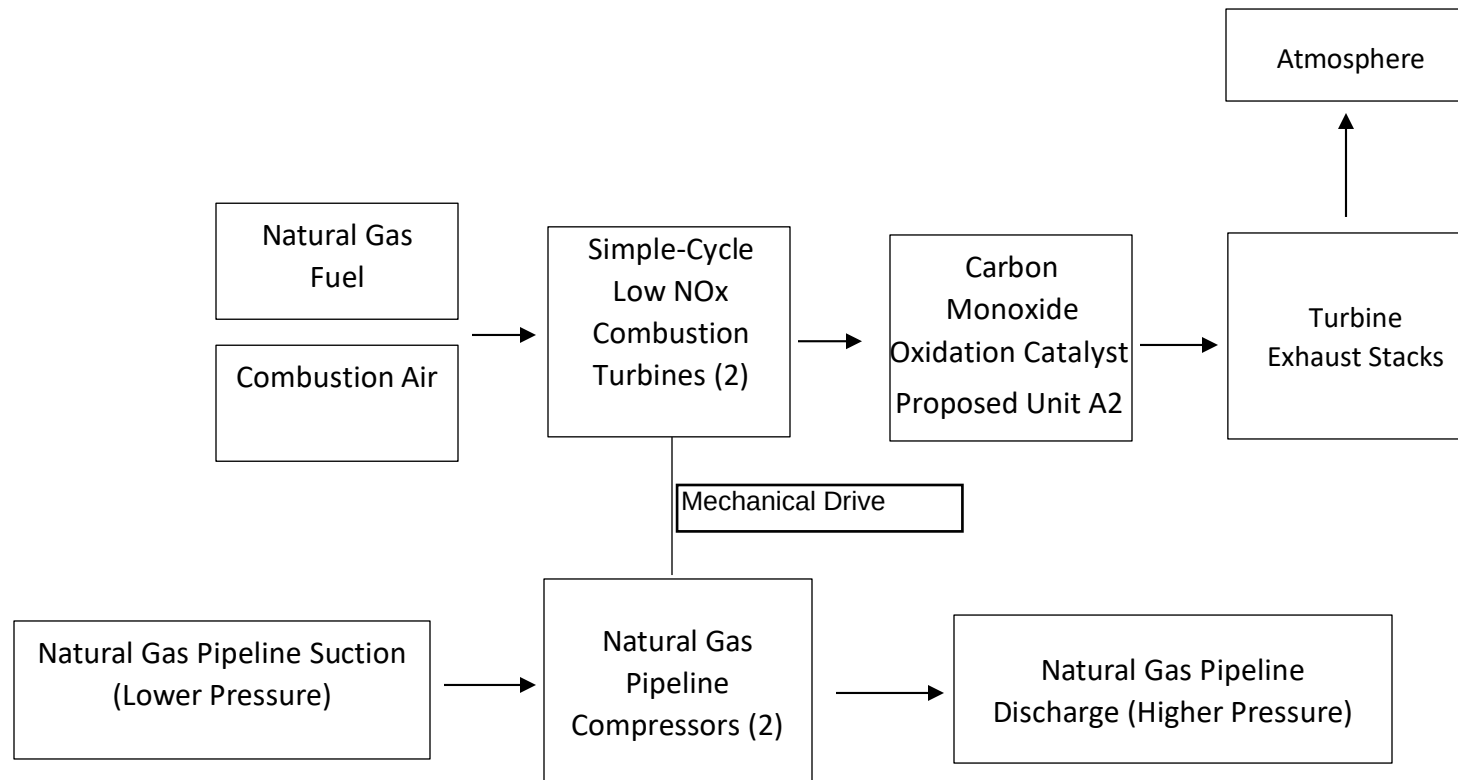
DEC ID									
-					-				

Rule Citation 201-3.2(c)	Description	Number of Activities	Building Location
(39)(iii)	Conveyorized degreasers with an air/vapor interface smaller than 22 square feet (2 square meters), unless subject to the requirements of 40 CFR 63 Subpart T.		
(39)(iv)	Open-top vapor degreasers with an open-top area smaller than 11 square feet (1 square meter), unless subject to the requirements of 40 CFR 63 Subpart T.		
Miscellaneous			
(40)	Ventilating and exhaust systems for laboratory operations. Laboratory operations do not include processes having a primary purpose to produce commercial quantities of materials.		
(41)	Exhaust or ventilating systems for the melting of gold, silver, platinum and other precious metals.		
(42)	Exhaust systems for paint mixing, transfer, filling or sampling and/or paint storage rooms or cabinets, provided the paints stored within these locations are stored in closed containers when not in use.		
(43)	Exhaust systems for solvent transfer, filling or sampling, and/or solvent storage rooms provided the solvent stored within these locations are stored in containers when not in use.		
(44)	Research and development activities, including both stand-alone and activities within a major facility, until such time as the administrator completes a rule making to determine how the permitting program should be structured for these activities.		
(45)	The application of odor counteractants and/or neutralizers.		
(46)	Hydrogen fuel cells.		
(47)	Dry cleaning equipment that uses only water-based cleaning processes or those using liquid carbon dioxide.		
(48)	Manure spreading, handling and storage at farms and agricultural facilities.		

Process Flow Diagram

Process Flow Diagram
Simple-Cycle Natural Gas-Fueled Combustion Turbines
Iroquois Pipeline Operating Company
Athens Compressor Station

Typical for existing turbine unit A1 and for proposed turbine unit A2



Air Permit Backup Calculations

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Combined Station (Facility and Unit) Emission Rate Potential (ERP) - Uncontrolled TPY (tons/year)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A1	39.29	47.87	0.69	16.43	0.31	0.40	43,118
Turbine Unit A2	13.45	13.62	0.03	3.73	0.58	0.38	45,346
Existing Emergency Generator	15.45	10.04	0.09	0.38	0.04	1.99	3,221
Existing Compressor Building Water Glycol Boiler	2.84	0.60	0.11	0.34	0.02	0.000	3,069
Existing Office/Control Room Heat Furnace	0.24	0.05	0.01	0.03	0.001	0.000	256
Existing and Proposed Seal Gas Leakage	NA	NA	0.59	NA	NA	0.000	1,340
Pipeline Liquids Tank	NA	NA	1.00	NA	NA	NA	0.000
Station Blowdowns and ESD	NA	NA	0.30	NA	NA	NA	67
Station Fugitive Leaks	NA	NA	0.002	NA	NA	NA	5
Existing Domestic Water Heater	0.06	0.01	0.002	0.01	0.000	0.000	64
Total	71.3	72.2	2.8	20.8	0.9	2.8	96,485
Turbines Only	52.7	61.5	0.7	20.2	0.9	0.8	88,464

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Combined Station (Facility and Unit) Emission Rate Potential (ERR) - Uncontrolled Pounds/Year							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A1	78,577	95,747	1,371	32,857	0.00	806	86,236,081
Turbine Unit A2	26,893	27,244	55.03	7,461	151.07	767	90,692,000
Existing Emergency Generator	30,900	20,085	185.40	525	81.10	3,983	6,441,468
Existing Compressor Building Water Glycol Boiler	5,676	1,192	217	681	34.06	0.000	6,137,069
Existing Office/Control Room Heat Furnace	473.0	99.2	18.1	56.8	2.84	0.000	511,422
Existing and Proposed Seal Gas Leakage	0.000	0.000	1185.5	0.000	0.000	0.000	2,680,516
Pipeline Liquids Tank	0.000	0.000	1999.2	0.000	0.000	0.000	0.000
Station Blowdowns and ESD	0.000	0.000	592.3	0.000	0.000	0.000	133,935
Station Fugitive Leaks	0.000	0.000	3.99	0.000	0.000	0.000	9,017
Existing Domestic Water Heater	118.3	24.8	4.5	14.2	0.71	0.000	127,856
Total	142,638	144,392	5,632	41,625	1,880	5,555	192,969,364
Turbines Only	105,470	122,990	1,426	40,318	1,761	1,572	176,928,081

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Combined Station (Facility and Unit) Emission Rate Potential (ERR) - Uncontrolled Pounds/Hour							
	NOx	CO	VOC	PM	SO₂	HAPs	GHG
Turbine Unit A1	8.97	10.93	0.16	3.75	0.07	0.09	9,844
Turbine Unit A2	3.07	3.11	0.01	0.85	0.13	0.09	10,353
Existing Emergency Generator	62	40	0		0	8	12,883
Existing Compressor Building Water Glycol Boiler	1.30	0.27	0.05	0.16	0.01	0.000	1,401
Existing Office/Control Room Heat Furnace	0.11	0.02	0.00	0.01	0.001	0.000	117
Existing and Proposed Seal Gas Leakage	0.000	0.000	0.14	0.000	0.000	0.000	306
Pipeline Liquids Tank	0.000	0.000	0.23	0.000	0.000	0.000	0.000
Station Blowdowns and ESD	0.000	0.000	0.07	0.000	0.000	0.000	15
Station Fugitive Leaks	0.000	0.000	0.0005	0.000	0.000	0.000	1.03
Existing Domestic Water Heater	0.03	0.01	0.001	0.003	0.000	0.000	29
Total	75.3	54.5	1.0	5.9	0.4	8.1	34,950
Turbines Only	12.04	14.04	0.16	4.60	0.20	0.18	20,197

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Combined Station (Facility and Unit) Potential (PTE) TPY (tons/year)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A1	39.29	47.87	0.69	16.43	0.31	0.40	43,118
Turbine Unit A2	13.45	0.91	0.03	3.73	0.58	0.38	45,346
Existing Emergency Generator	0.88	0.17	0.01	0.02	0.002	0.11	184
Existing Compressor Building Water Glycol Boiler	2.84	0.60	0.11	0.34	0.02	0.000	3,069
Existing Office/Control Room Heat Furnace	0.24	0.05	0.01	0.03	0.001	0.000	256
Existing and Proposed Seal Gas Leakage	NA	NA	0.39	NA	NA	0.000	1,340
Pipeline Liquids Tank	NA	NA	1.00	NA	NA	NA	0.000
Station Blowdowns and ESD	NA	NA	0.03	NA	NA	NA	67
Station Fugitive Leaks	NA	NA	0.002	NA	NA	NA	4.5
Existing Domestic Water Heater	0.06	0.01	0.002	0.01	0.000	0.000	64
Total	56.8	49.6	2.5	20.6	0.9	0.9	93,448
Existing Station	43.3	48.7	1.4	16.8	0.3	0.5	48,030
Turbines Only	52.74	48.78	0.71	20.16	0.88	0.79	88,464
2023 Minor Modification	13.4	0.9	1.6	3.7	0.58	0.4	46,686
Major Mod Thresholds TPY	100	100	50	100	100	25	100,000

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Combined Station (Facility and Unit) Potential (PTE) Pounds/Year							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A1	78,577	95,747	1,371	32,857	610	806	86,236,081
Turbine Unit A2	26,893	1,816	55.03	7,461	1151.07	767	90,692,000
Existing Emergency Generator	1,764	344	10.58	32	4.63	227	367,664
Existing Compressor Building Water Glycol Boiler	5,676	1,192	217	28.1	34.06	0.000	6,137,069
Existing Office/Control Room Heat Furnace	473.0	99.3	18.1	56.8	2.84	0.000	511,422
Existing and Proposed Seal Gas Leakage	0.000	0.000	1185.5	0.000	0.000	0.000	2,680,516
Pipeline Liquids Tank	0.000	0.000	1999.2	0.000	0.000	0.000	0.000
Station Blowdowns and ESD	0.000	0.000	59.2	0.000	0.000	0.000	133,935
Station Fugitive Leaks	0.000	0.000	3.99	0.000	0.000	0.000	9,017
Existing Domestic Water Heater	118.3	24.8	4.5	14.2	0.71	0.000	127,856
Total	113,501	99,223	4,924	41,102	1,804	1,799	186,895,560
Turbines Only	105,470	97,563	1,426	40,318	1,761	1,572	176,928,081

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Combined Station (Facility and Unit) Potential (PTE) Pounds/Hour							
	NOx	CO	VOC	PM	SO ₂	HAPs	GHG
Turbine Unit A1	8.97	10.93	0.16	3.75	0.07	0.09	9,844
Turbine Unit A2	3.07	0.21	0.01	0.85	0.13	0.09	10,353
Existing Emergency Generator	3.53	0.69	0.02	0.06	0.01	0.45	735
Existing Compressor Building Water Glycol Boiler	0.65	0.14	0.02	0.08	0.00	0.00	701
Existing Office/Control Room Heat Furnace	0.05	0.01	0.00	0.01	0.00	0.00	58
Existing and Proposed Seal Gas Leakage	NA	NA	0.14	NA	NA	0.00	306
Pipeline Liquids Tank	NA	NA	0.00	NA	NA	0.00	0.000
Station Blowdowns and ESD	NA	NA	0.00	NA	NA	0.00	15.29
Station Fugitive Leaks	NA	NA	0.00	NA	NA	0.00	1.03
Existing Domestic Water Heater	0.01	0.00	0.00	0.00	0.00	0.00	14.60
Turbines Only	12.04	11.14	0.16	4.60	0.20	0.18	20,197
Total	16.3	12.0	0.3	4.8	0.2	0.6	22,028

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Actual Emissions (Facility and Unit) Pounds/Hour							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A1	6.98	1.34	0.16	3.75	0.07	0.09	9,844
Turbine Unit A2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Existing Emergency Generator	3.53	2.18	0.02	0.06	0.009	0.42	678
Existing Compressor Building Water Glycol Boiler	0.65	0.14	0.02	0.07	0.004	0.000	701
Existing Office/Control Room Heat Furnace	0.05	0.01	0.002	0.01	0.000	0.000	58
Existing and Proposed Seal Gas Leakage	NA	NA	0.14	NA	NA	0.000	873
Pipeline Liquids Tank	NA	NA	0.000	NA	NA	0.000	0.000
Station Blowdowns and ESD	NA	NA	0.24	NA	NA	0.000	436
Station Fugitive Leaks	NA	NA	0.00	NA	NA	0.000	2.94
Existing Domestic Water Heater	0.01	0.003	0.001	0.002	0.000	0.000	14.60
Turbines Only	6.98	1.34	0.16	3.75	0.07	0.09	9,844
Total	11.2	3.7	0.6	3.9	0.1	0.5	12,608

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Actual Emissions (Facility and Unit) Pounds/Year (2-year average)							
	NOx	CO	VOC	PM	SO ₂	HAPs	GHG
Turbine Unit A1	15,161	1,895	1,213	7,959	190	229	24,502,946
Turbine Unit A2	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Existing Emergency Generator	52.91	32.73	0.32	0.95	0.14	6.29	10,172
Existing Compressor Building Water Glycol Boiler	2,838.01	595.98	108.64	240.66	17.03	0.000	3,068,534
Existing Office/Control Room Heat Furnace	236.50	49.67	4.05	28.38	1.42	0.000	255,711
Existing and Proposed Seal Gas Leakage	0.000	0.000	336.84	0.000	0.000	0.000	2,172,854
Pipeline Liquids Tank	0.000	0.000	0.00	0.000	0.000	0.000	0.000
Station Blowdowns and ESD	0.000	0.000	592.34	0.000	0.000	0.000	3,821,009
Station Fugitive Leaks	0.000	0.000	3.99	0.000	0.000	0.000	25,725
Existing Domestic Water Heater	59.13	12.42	2.26	7.10	0.35	0.000	63,928
Turbines Only	15,161	1,895	1,213	7,959	190	229	24,502,946
Total	18,347	2,586	2,266	8,336	208	235	33,920,880

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Turbine Unit A2 Solar Model Taurus 70 - 10,802 SoLoNOx															
Altitude - MSL		141.8													
Stack Height (ft)		69.25													
P/Po		1.00	Altitude (elevation) pressure correction for actual volume exhaust rate ACFM												
Open Stack Diameter (in)		72.00													
Open Stack Diameter (ft)		6.00													
Restricted Stack exit area (FT2)		17.0													
Acoustic Baffle Restriction %		40%													
LHV (BTU/SCF)		926													
HHV (BTU/SCF)		1031.7													
Gas Specific Gravity		0.5806													
Fuel #/MMBTU		49.86													
Fuel Sulfur Grains/100 SCF		0.50	Iroquois Tariff = 1.25, 2019 actual <0.2 grains/100 SCF												
Fuel Sulfur Weight Fraction		0.00002													
Fuel VOC weight %		0.4%													
MW VOC		45.8													
MW CO		28.0													
Turbine A2 Performance and Emissions Data															
Ambient												LHV	LHV	HHV	HHV
Temp.	% load	Exh.#/hr	Exh Temp	HP	BTU/HP-HR	Exh MW	Restricted Vel. FPS	KJ/W-HR	NSPS	Exh ACFM	BTU/HR	SCF/HR	MMSCF/YR	SCF/HR	MMSCF/YR
100	100	182,720	999	8,658	7,884	28.11	113.9	11.16	193.6	115,905	6.83E+07	73,715	646	66,162	580
100	75	163,105	987	6,493	8,715	28.13	100.7	12.42	174.0	102,538	5.70E+07	61,529	539	55,225	484
100	50	147,352	1,016	4,239	7,164	28.15	92.8	15.64	138.1	94,424	4.69E+07	50,602	443	45,418	398
47	100	220,043	928	11,436	7,889	28.50	128.7	10.17	212.3	130,970	8.22E+07	88,783	778	79,687	698
47	75	200,453	910	8,577	8,029	28.53	115.6	11.36	190.1	117,639	6.89E+07	74,368	651	66,749	585
47	50	175,303	946	5,718	9,993	28.55	103.7	14.14	152.8	105,509	5.71E+07	61,706	541	55,384	485
0	100	236,197	854	12,997	7,076	28.58	130.4	10.01	215.7	132,717	8.52E+07	91,980	806	82,557	723
0	75	223,116	868	9,227	8,308	28.61	124.3	11.76	183.7	126,570	7.50E+07	80,990	709	72,692	637
0	50	197,459	885	6,948	10,295	28.63	111.4	14.57	148.3	113,370	6.20E+07	66,906	586	60,052	526

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Turbine A2 Performance and Emissions Data (continued)														
Ambient Temp.	% load	NOx TPY	NOx #/HR	NOx #/MM	NOx GM/SEC	NOx GM/HP-HR	SO2 TPY	SO2 #/hr	SO2 #/MM	SO2 GM/SEC	PM TPY	PM #/hr	PM #/MM	
100	100	10.5	2.39	0.04	0.30	0.13	0.461	0.1053	0.00154	0.0133	2.99	0.68	0.010	
100	75	8.7	1.99	0.03	0.25	0.14	0.385	0.0879	0.00154	0.0111	2.50	0.57	0.010	
100	50	7.3	1.67	0.04	0.21	0.18	0.317	0.0723	0.00154	0.0091	2.05	0.47	0.010	
47	100	12.9	2.95	0.04	0.37	0.12	0.556	0.1268	0.00154	0.0160	3.60	0.82	0.010	
47	75	10.8	2.47	0.04	0.31	0.13	0.465	0.1062	0.00154	0.0134	3.02	0.69	0.010	
47	50	9.0	2.05	0.04	0.26	0.16	0.386	0.0882	0.00154	0.0111	2.50	0.57	0.010	
0	100	13.4	3.07	0.04	0.39	0.12	0.576	0.1314	0.00154	0.0166	3.73	0.85	0.010	
0	75	11.8	2.70	0.04	0.34	0.13	0.507	0.1157	0.00154	0.0146	3.28	0.75	0.010	
0	50	9.8	2.23	0.04	0.28	0.17	0.419	0.0956	0.00154	0.0121	2.71	0.62	0.010	

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Turbine A2 Performance and Emissions Data (continued)

Ambient	% load	CO TPY (controlled)	CO TPY (uncontrolled)	CO #/HR (uncontrolled)	CO #/HR (controlled)	CO #/MM	CO GM/SEC	CO GM/HP-HR		VOC TPY	UHC #/HR	VOC #/HR	VOC #/MM	VOC GM/SEC
Temp.														
100	100	0.71	10.6	2.43	0.16	0.002	0.02	0.01		0.02	1.39	0.005	0.0001	0.001
100	75	0.59	8.8	2.02	0.13	0.002	0.02	0.01		0.02	1.16	0.004	0.0001	0.001
100	50	0.50	7.4	1.70	0.11	0.002	0.01	0.01		0.01	0.97	0.003	0.0001	0.000
47.0	100	0.87	13.1	2.99	0.20	0.002	0.03	0.01		0.03	1.71	0.006	0.0001	0.001
47.0	75	0.73	11.0	2.51	0.17	0.002	0.02	0.01		0.02	1.44	0.005	0.0001	0.001
47.0	50	0.61	9.1	2.08	0.14	0.002	0.02	0.01		0.02	1.19	0.004	0.0001	0.001
0	100	0.9	13.6	3.11	0.21	0.002	0.03	0.01		0.03	1.78	0.006	0.0001	0.001
0	75	0.80	12.0	2.74	0.18	0.002	0.02	0.01		0.02	1.57	0.006	0.0001	0.001
0	50	0.66	9.9	2.26	0.15	0.002	0.02	0.01		0.02	1.30	0.005	0.0001	0.001

Iroquois Pipeline Operating Company
ExC Project Air Permitting and Modeling Calculations
Athens Compressor Station

Emergency Generator Emission Factors and Ratings (Waukesha-Pearce except for PM AP-42 factor)							
		NOx	CO	VOC	PM	SO2	
values		2.00	0.39	0.01	0.010	0.001	
units		gm/hp-hr	gm/hp-hr	gm/hp-hr	#/hrmbtu	#/mmbtu	
Lbs/Hr		3.53	0.69	0.02	0.06	0.009	
mmbtu/hr		6.298					
max. hours		500.000	Oxidation catalyst CO and VOC reduction %				70%
HP	800		KW	561	Btu/Hp-hr	7872	
Water/Glycol Boiler Emissions Factors and Ratings (AP-42 factors)							
values		100.00	21.00	3.83	12.00	0.60	
units		#/mmcf	#/mmcf	#/mmcf	#/mmcf	#/mmcf	
mmbtu/hr		6.000	boiler nameplate photos 11/11/19				
max hours per year		4,380	not included in PTA				
Office/Control Room Furnace Emissions Factors and Ratings (AP-42 factors)							
values		100.00	21.00	3.83	12.00	0.60	
units		#/mmcf	#/mmcf	#/mmcf	#/mmcf	#/mmcf	
mmbtu/hr		0.500	Athens A1 Technical Support Document				
max hours per year		4,380	not included in PTA				
Domestic Water Heater Emissions Factors and Ratings (AP-42 factors)							
values		100.00	21.00	3.83	12.00	0.60	
units		#/mmcf	#/mmcf	#/mmcf	#/mmcf	#/mmcf	
mmbtu/hr		0.125	Athens A1 Technical Support Document				
max hours per year		4,380					
Seal Gas Leaks							
values		NA	NA	0.00043	NA	NA	
units		NA	NA	#/SCF	NA	NA	
SCF Gas/HR		NA	NA	3,180	NA	NA	
SCF Gas/YR		NA	NA	27,856,800	NA	NA	
vent Recompression %		90%					

Athens, NY Compressor Station Unit A1 Turbine and Station Auxiliary Equipment Emissions

Turbine Performance and Emissions Data													
Athens Compressor Station, Town of Athens, Greene County, New York (Unit A1)													
Iroquois Gas Transmission System, LP													
Solar Turbines, Incorporated Taurus Model 70-10302S From May 19, 2003 and May 20, 2007 Solar "Predicted Engine Performance"													
Altitude - MSL				142.19									
Stack Height (ft)				62.4									
P/Po				1.00	Altitude (elevation) pressure correction for actual volume exhaust rate ACFM								
Circ. Stack Exit Diameter if applicable (in)				NA									
Circ. Stack Exit Diameter if applicable (ft)				NA									
Rect. Stack Exit Width if applicable (in)				108	9.0								
Rect. Stack Exit Length if applicable (in)				120	10.0								
Stack Diameter (in)				128.46									
Stack Diameter (ft)				10.70									
Rectangular Dimensions (Ft)				9 x 10									
Open Stack exit area (FT2)				90	See Athens A1 exhaust exit flow area sketch and calculation drawing.								
Acoustic Baffle Restriction %				56%									
Mott calculated restricted stack area (Ft2)				40									
LHV (BTU/SCF)				910									
HHV (BTU/SCF)				1016									
Gas Specific Gravity				0.58									
Fuel #/MMBTU				48.65									
Fuel Sulfur Weight %				0.0008	Same as Athens original application. Samples indicate < 0.0006								
VOC weight %				5.0%									
MW VOC				44.0									
MW CO				28.0									
Ambient													
Temp.	% load	Exh.#/hr	Exh Temp	HP	BTU/HP-HR	Exh. MW	Vel. FPS	KJ/W-HR	NSPS	Exh ACFM	BTU/HR	LHV SCF/HR	LHV MMSCF/YR
100	100	180,881	974	9,276	7,823	28.2	46.8	11.07	195.1	112,414	6.47E+07	71,146	623
100	75	164,921	981	6,207	9,000	28.2	42.9	12.74	169.6	102,995	5.59E+07	61,388	538
100	50	146,804	1003	4,138	11,392	28.2	38.8	16.12	134.0	93,080	4.71E+07	51,802	454
47.1	100	217,744	905	10,848	7,217	28.6	53.1	10.21	211.5	127,382	7.83E+07	86,033	754
47.1	75	198,146	913	8,136	8,202	28.6	48.4	11.61	186.1	116,256	6.67E+07	73,331	642
47.1	50	176,405	939	5,424	10,310	28.6	43.9	14.59	148.1	105,460	5.59E+07	61,452	538
0	100	246,075	876	12,478	7,174	28.58	58.6	10.15	212.8	140,586	8.95E+07	98,371	862
0	75	227,025	895	9,359	8,346	28.60	54.8	11.81	182.9	131,490	7.81E+07	85,835	752
0	50	201,301	892	6,239	10,170	28.63	48.4	14.39	150.1	116,179	6.35E+07	69,726	611

Athens, NY Compressor Station Unit A1 Turbine and Station Auxiliary Equipment Emissions

Page 14 of 15

Turbine Performance and Emissions Data (continued)														
Ambient Temp.	% load	NOx TPY	NOx #/HR	NOx #/MM	NOx GM/SEC	NOx GM/HP-HR	SO2 TPY	SO2 #/hr	SO2 #/MM	SO2 GM/SEC	SO2 %	PM TPY	PM #/hr	PM #/MM
100	100	37.7	8.6	0.13	1.08	0.47	0.22	0.050	0.001	0.0064		11.88	2.71	0.042
100	75	23.9	5.5	0.10	0.69	0.40	0.19	0.043	0.001	0.0055		10.25	2.34	0.042
100	50	27.8	6.3	0.13	0.80	0.70	0.16	0.037	0.001	0.0046		8.65	1.98	0.042
47.1	100	34.3	7.82	0.10	0.99	0.33	0.27	0.061	0.001	0.0077		14.37	3.28	0.042
47.1	75	29.2	6.7	0.10	0.84	0.31	0.23	0.052	0.001	0.0066		12.25	2.80	0.042
47.1	50	24.4	5.6	0.10	0.70	0.38	0.19	0.044	0.001	0.0055		10.26	2.34	0.042
0	100	39.3	8.97	0.10	1.13	0.38	0.31	0.070	0.001	0.0088	0.00003%	16.43	3.75	0.042
0	75	34.3	7.8	0.10	0.99	0.38	0.27	0.061	0.001	0.0077		14.33	3.27	0.042
0	50	27.8	6.4	0.10	0.80	0.46	0.22	0.049	0.001	0.0062		11.64	2.66	0.042

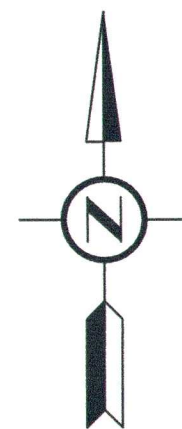
Athens, NY Compressor Station Unit A1 Turbine and Station Auxiliary Equipment Emissions

Page 15 of 15

Ambient Temp.	% load	CO TPY	CO #/HR	CO #/MM	CO GM/SEC	CO GM/HP-HR	VOC TPY	UHC #/HR	VOC #/HR	VOC #/MM	VOC GM/SEC
100	100	33.8	7.7	0.12	0.97	0.42	0.5	2.2	0.11	0.0017	0.014
100	75	29.1	6.7	0.12	0.84	0.49	0.4	1.9	0.10	0.0017	0.012
100	50	24.6	5.6	0.12	0.71	0.62	0.4	1.6	0.08	0.0017	0.010
47.1	100	41.7	9.52	0.12	1.20	0.40	0.6	2.7	0.14	0.0017	0.017
47.1	75	35.5	8.1	0.12	1.02	0.45	0.5	2.3	0.12	0.0017	0.015
47.1	50	29.7	6.8	0.12	0.86	0.56	0.4	2.0	0.10	0.0017	0.012
0	100	47.9	10.93	0.12	1.38	0.40	0.7	3.1	0.16	0.0017	0.020
0	75	41.7	9.5	0.12	1.20	0.46	0.6	2.7	0.14	0.0017	0.017
0	50	33.9	7.7	0.12	0.98	0.56	0.5	2.2	0.11	0.0017	0.014
No vendor SO2 data. $S + O_2 = SO_2$ (2# SO2 for each # S in fuel, ratio of MWs) => $SO_2 \text{ \#/HR} = 2 * \% \text{ sulfur in fuel} / 100 * \text{fuel \#/MMBTU} * \text{BTU/HR} / 10^6$											
Vendor does not quote PM data. EPA AP-42 Table 3.1-1 (10/96) particulates factor #/MMBTU (solids + condensables) uncontrolled turbines=											0.0419
Less than 0.4 % non-methane and non-ethane volatile organic compounds. Vendor unburned hydrocarbon (UHC) rates converted to VOC using VOC weight %.											
Vendor guarantees 25 PPM NOx, 50 PPM CO and 25 PPM UHC between 50% and 100% load and above zero degrees Fahrenheit.											
Vendor does not guarantee sub-zero emissions data, which is based on 120 PPM NOx, 150 PPM CO and 75 PPM UHC.											

Location Map, Plot Plan and Reference Table Drawings

GREENE COUNTY, NEW YORK



LOCATION PLAN 1" = 400'

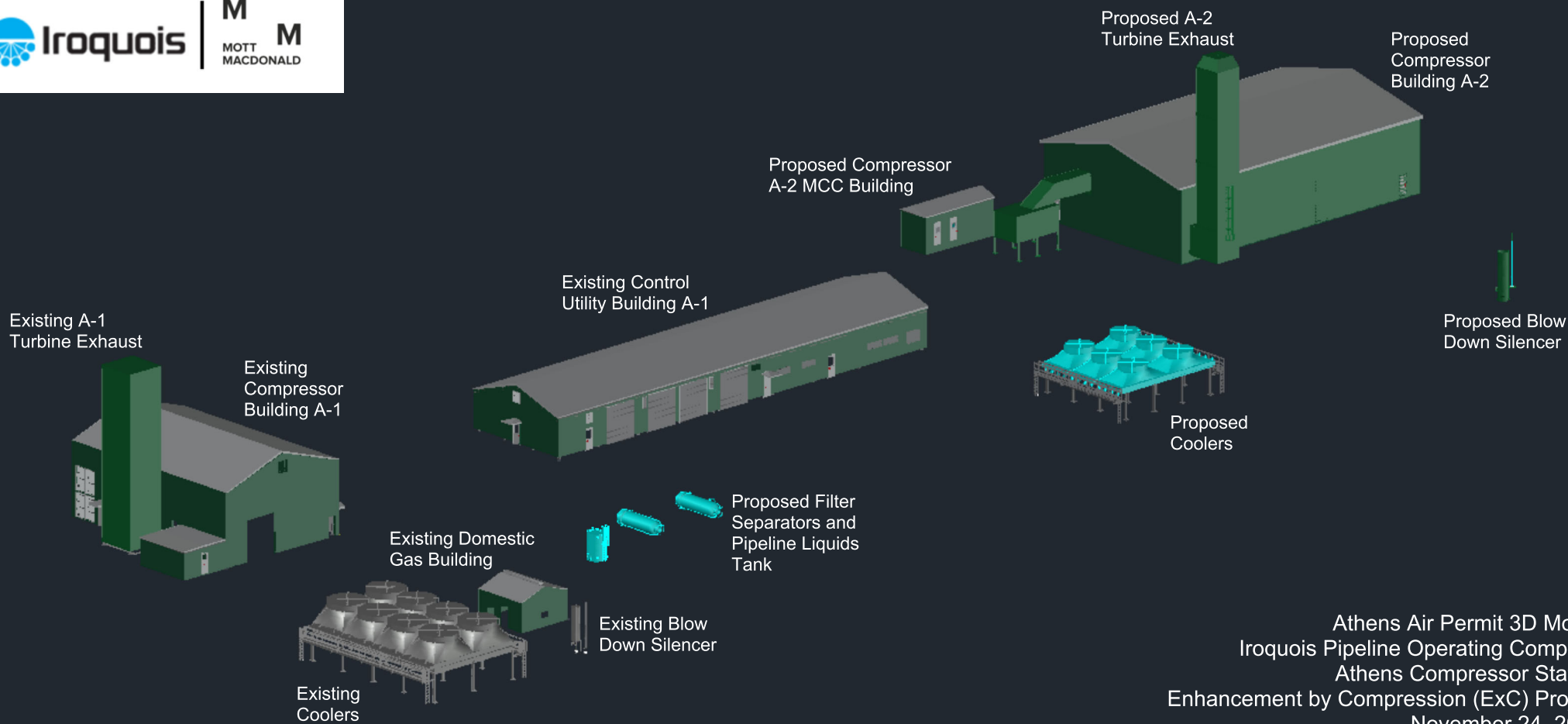
NOTES:
1. IT IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DOCUMENT UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

LEGEND:

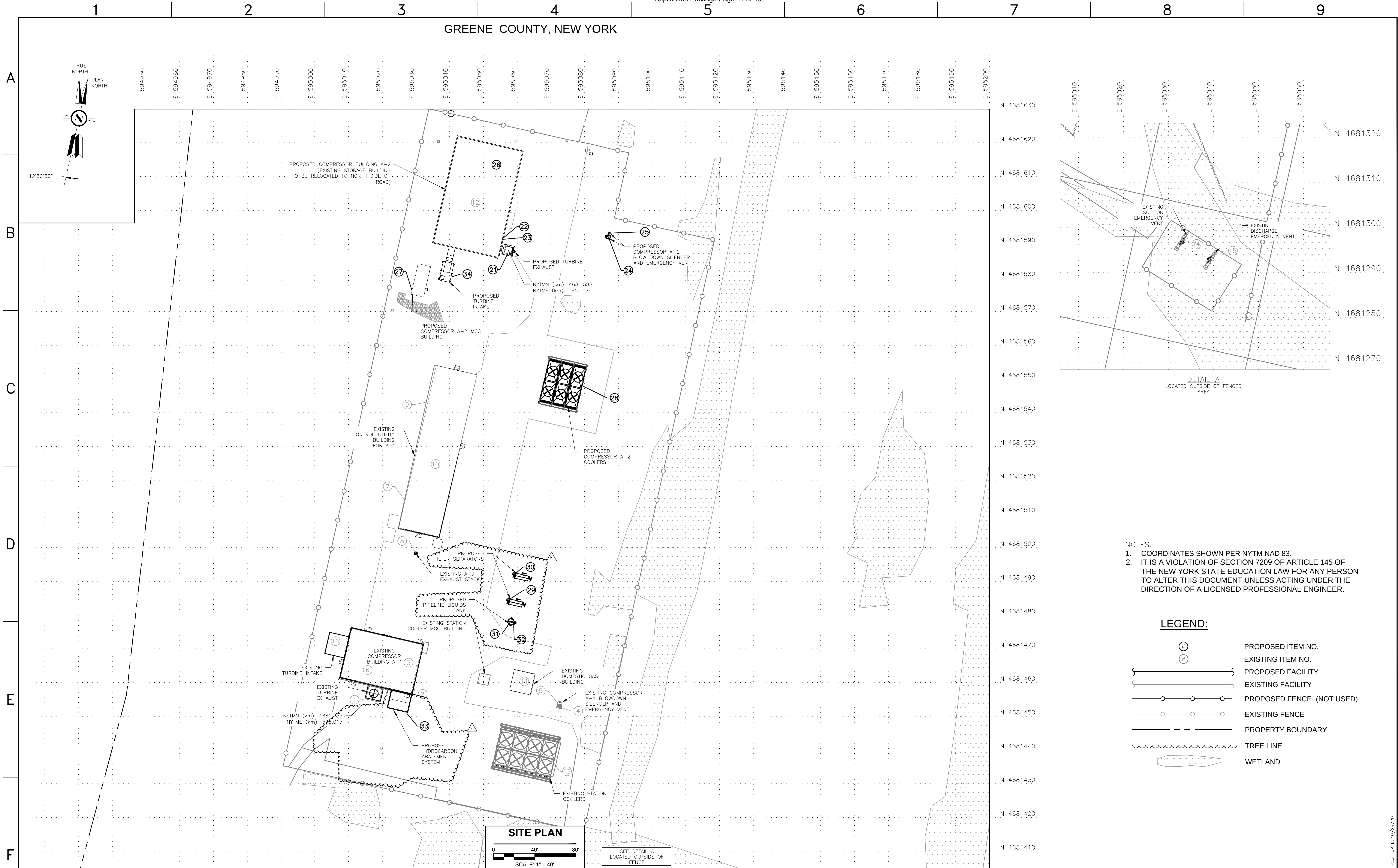
	COMMERCIAL AREA
	COMPRESSOR STATION PROPERTY
	RESIDENTIAL AREA

REFERENCE DRAWINGS		PERMIT	ENGINEER'S STAMP	REVISIONS								 GAS TRANSMISSION SYSTEM IROQUOIS PIPELINE OPERATING COMPANY, OPERATOR	DRAWN BY		DATE		AIR PERMITTING – OVERVIEW MAP Exc PROJECT ATHENS COMPRESSOR STATION	TOWN OF ATHENS, GREENE COUNTY, NEW YORK	DWG. NO.: ENV-ATS-D-17-3.88-003	REVISION E
DRAWING NO.	TITLE			REV.	DATE	DESCRIPTION	BY	CHK'D	ENG	APP	CHECKED BY		DATE	DATE	DATE	DATE				
ENV-ATS-D-17-3.88-001	AIR PERMITTING – PLAN			A	10/04/19	INITIAL REVIEW	RJR	NRB	NRB	KVS	NRB	10/04/19	10/04/19							
ENV-ATS-D-17-3.88-002	AIR PERMITTING – TABLES			B	10/21/19	ISSUED FOR REVIEW	RJR	NRB	NRB	KVS	NRB	10/04/19	10/04/19							
C-ATS2-D-C-001	SITE CIVIL/PERMIT – DRAWING INDEX			C	12/16/19	ISSUED FOR 30% REVIEW – Exc PROJECT	RJR	NRB	NRB	KVS	NRB	10/04/19	10/04/19							
				D	01/31/20	ISSUED FOR PERMIT – Exc PROJECT	RJR	NRB	NRB	KVS	NRB	10/04/19	10/04/19							
				E	02/14/20	ISSUED FOR PERMIT – Exc PROJECT	RJR	NRB	NRB	KVS	NRB	10/04/19	10/04/19							

PLOT DATE: 2/13/20



Athens Air Permit 3D Model
Iroquois Pipeline Operating Company
Athens Compressor Station
Enhancement by Compression (ExC) Project
November 24, 2020



PLOT DATE: 10/28/20

REFERENCE DRAWINGS		PERMIT	ENGINEER'S STAMP	REVISIONS							M M MOTT MACDONALD 134 CAPITAL DRIVE , SUITE D WEST SPRINGFIELD, MA 01089	 Iroquois GAS TRANSMISSION SYSTEM IROQUOIS PIPELINE OPERATING COMPANY, OPERATOR	APPROVED BY: — ENGINEERING MANAGER	DRAWN BY RJR	DATE 10/04/19	AIR PERMITTING – PLAN Exc PROJECT ATHENS COMPRESSOR STATION			
DRAWING NO.	TITLE			REV.	DATE	DESCRIPTION	BY	CHK'D	ENG	APP				CHECKED BY	DATE	DRAFT. SUP.	DATE	ENGR.	DATE
ENV-ATS-D-17-3.88-002	AIR PERMITTING – TABLES		11/17/2020	A	10/04/19	INITIAL REVIEW	RJR	NRB	NRB	KVS	AF# —	FILE NO. —	SCALE 1" = 40'	10/04/19	10/04/19	10/04/19	10/04/19	10/04/19	
ENV-ATS-D-17-3.88-003	AIR PERMITTING – OVERVIEW MAP			B	10/21/19	ISSUED FOR REVIEW	RJR	NRB	NRB	KVS									
ENV-ATS-D-17-3.88-000	AIR PERMIT – DRAWING INDEX			C	12/16/19	ISSUED FOR 30% REVIEW – Exc PROJECT	RJR	NRB	NRB	KVS									
				D	01/31/20	ISSUED FOR PERMIT – Exc PROJECT	RJR	NRB	NRB	KVS									
				E	02/14/20	ISSUED FOR PERMIT – Exc PROJECT	RJR	NRB	NRB	KVS									
				F	10/23/20	RE-ISSUED FOR PERMIT – Exc PROJECT	KAM	NRB	NRB	MAF									
				—	—	—	—	—	—	—									

ATHENS C.S. EXISTING STRUCTURES								
(2) ITEM #	(2) PERMIT ID #	(3) EXIT FLOW AREA	(4) STRUCTURE	DISTANCE TO NEAREST PROPERTY LINE	(5) HEIGHT	(5) WIDTH OR DIA.	(5) LENGTH	(6) FINISHED GRADE ELEV.
COMPRESSOR A-1								
1	00001	40.00 SQ. FT. *	TURBINE EXHAUST STACK	238.86'	62.4'	45.75"	14.1'	142.19'
2	00003	2.95 SQ. INCH *	PRIMARY SEAL GAS VENT	276.91'	22.8'	2.38"	N/A	142.00'
3	00004	2.95 SQ. INCH *	SECONDARY SEAL GAS VENT	278.73'	22.8'	2.38"	N/A	142.36'
4	00005	7.07 SQ. FT. *	BLOWDOWN SILENCER	420.62'	15.4'	36"	N/A	137.84'
5	00006	12.7 SQ. INCH *	EMERGENCY VENT	418.71'	15.4'	4.50"	N/A	137.98'
6	00007	N/A	COMPRESSOR BUILDING	204.07'	25.7' EAVE 34.0' PEAK	50.0'	72.0'	141.87'
16	00016	N/A	TURBINE AIR INTAKE	406.89'	19.3'	10.7'	23.8'	141.39'
STATION								
7	00008	5.59 SQ. FT. *	BOILER EXHAUST STACK	247.31'	N/A	16.0"	N/A	141.72'
8	APU-1	1.1 SQ. FT. **	APU EXHAUST STACK	264.71'	20.0'	14"	N/A	141.55'
9	00010	4.5 SQ. INCH *	WATER HEATER, HVAC, AND STOVE EXHAUST STACK	257.52'	N/A	2.38"	N/A	142.11'
10	00011	N/A	CONTROL / UTILITY BUILDING	244.35'	15.3' EAVE 22.0' PEAK	40.0'	162.0'	141.86'
11	00012	N/A	DOMESTIC GAS BUILDING	370.01'	10.6' EAVE 13.3' PEAK	19.2'	19.2'	140.75'
12	00013	N/A	STORAGE BUILDING *	247.29	16.3' EAVE 23.0' PEAK	40.3'	51.9'	142.39'
13	00014	N/A	COOLERS	361.60'	20.7'	38.6'	57.6'	140.09'
14	00015	28.9 SQ. INCH *	SUCTION EMERGENCY VENT	314.49'	10.0'	6.63"	N/A	138.36'
15	00016	28.9 SQ. INCH *	DISCHARGE EMERGENCY VENT	307.00'	10.0'	6.63"	N/A	138.18'

ATHENS C.S. PROPOSED STRUCTURES								
(2) ITEM #	(2) PERMIT ID #	(3) EXIT FLOW AREA	(4) STRUCTURE	DISTANCE TO NEAREST PROPERTY LINE	(5) HEIGHT	(5) WIDTH OR DIA.	(5) LENGTH	(7) FINISHED GRADE ELEV.
COMPRESSOR A-2								
21	00002	26.30 SQ. FT.*	TURBINE EXHAUST STACK	320.21'	69.2'	10.0'	68.0'	141.39'
22	00022	2.95 SQ. INCH *	PRIMARY SEAL GAS VENT	312.91'	22.8'	2.38"	N/A	141.97'
23	00023	2.95 SQ. INCH *	SECONDARY SEAL GAS VENT	312.85'	22.8'	2.38"	N/A	141.73'
24	00024	7.07 SQ. FT. *	BLOWDOWN SILENCER	415.98'	15.9'	36"	N/A	139.80'
25	00025	12.7 SQ. INCH *	EMERGENCY VENT	416.42'	26.5'	4.50"	N/A	139.76'
26	00026	N/A	COMPRESSOR BUILDING	247.29'	25.7' EAVE 34.0' PEAK	64.0'	105.0'	142.34'
27	00027	N/A	COMPRESSOR MCC BUILDING	231.39'	10.6' EAVE 13.3' PEAK	12.0'	30.0'	142.21'
28	00028	N/A	COOLERS	367.03'	18.0'	37.0'	43.0'	138.18'
34	00034	N/A	TURBINE AIR INTAKE	256.49'	29.8'	9.0'	10.7'	142.00'
STATION								
29	00029	N/A	INLET FILTER-SEPARATOR	359.99'	11.1'	5.2'	18.6'	140.23'
30	00030	N/A	INLET FILTER-SEPARATOR	362.93'	11.1'	5.2'	18.6'	140.17'
31	00031	N/A	PIPELINE LIQUIDS TANK	361.77'	8.8' EAVE 9.3' PEAK	6.88'	N/A	140.43'
32	00032	12.7 SQ. INCH ****	PIPELINE LIQUIDS TANK VENT	366.19'	11.3'	4.50"	N/A	140.20'
33	00033	N/A	H.A.S. BUILDING (NOTE 8)	253.44'	10.0'	18.0'	20.5'	141.59'

NOTES:

- TABLE CONTENT PER IGT'S RESPONSE TO EXC RFI-P1-001 RECEIVED 7/19/2019, UNLESS OTHERWISE NOTED.
- ITEM# AND PERMIT ID # BY MOTT MACDONALD. PERMIT ID# 9 NOT USED.
- EXIT FLOW AREA IS:
 - VERTICAL IF NOTED WITH *
 - HORIZONTAL IF NOTED WITH **
 - SLOPED 45° IF NOTED WITH ***
 - VERTICAL DOWNWARDS IF NOTED WITH ****
- EXISTING STRUCTURE TO BE REMOVED IF NOTED WITH *
- EXISTING DIMENSIONS ARE APPROXIMATE, PROPOSED DIMENSIONS ARE PRELIMINARY.
- EXISTING FINISHED GRADE ELEVATIONS PER MOTT MACDONALD SURVEY DATA COLLECTED JULY 29 TO AUGUST 10, 2019.
- PROPOSED FINISHED GRADE ELEVATIONS PER PRELIMINARY DESIGN.
- HYDROCARBON ABATEMENT SYSTEM (H.A.S.) WILL ABSORB 90% FLOW OF PRIMARY SEAL GAS REDUCING OVERALL SITE EMISSIONS.
- PROPOSED TURBINE EXHAUST STACK DESIGN WAS VERIFIED BY SOLAR TURBINES INC. ON NOVEMBER 26, 2019
- IT IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DOCUMENT UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

REFERENCE DRAWINGS		PERMIT	ENGINEER'S STAMP	REVISIONS					MOTT MACDONALD 134 CAPITAL DRIVE , SUITE D WEST SPRINGFIELD, MA 01089	 GAS TRANSMISSION SYSTEM IROQUOIS PIPELINE OPERATING COMPANY, OPERATOR	DRAWN BY		DATE	AIR PERMITTING – TABLES ExC PROJECT ATHENS COMPRESSOR STATION TOWN OF ATHENS, GREENE COUNTY, NEW YORK DWG. NO.: ENV-ATS-D-17-3.88-002 REVISION H		
DRAWING NO.	TITLE			REV.	DATE	DESCRIPTION	BY	CHK'D	ENG	APP	CHECKED BY	RJR	DATE			
ENV-ATS-D-17-3.88-001	AIR PERMITTING – PLAN			B	10/21/19	ISSUED FOR REVIEW	RJR	NRB	NRB	KVS		NRB	10/04/19			
ENV-ATS-D-17-3.88-003	AIR PERMITTING – OVERVIEW MAP			C	12/05/19	RE – ISSUED FOR REVIEW	DWS	SS	NRB	KVS		RJR	10/04/19			
C-ATS2-D-C-001	SITE CIVIL/PERMIT – DRAWING INDEX			D	12/09/19	RE – ISSUED FOR REVIEW	JUL	MAF	NRB	KVS		KVS	10/04/19			
				E	12/16/19	ISSUED FOR 30% REVIEW – EXC PROJECT	JUL	MAF	NRB	KVS		–	10/04/19			
				F	01/31/20	ISSUED FOR PERMIT – EXC PROJECT	JUL	MAF	NRB	KVS						
				G	02/14/20	ISSUED FOR PERMIT – EXC PROJECT	RJR	NRB	NRB	KVS						
				H	10/26/20	RE-ISSUED FOR PERMIT – EXC PROJECT	KAM	NRB	NRB	MAF						

Refined Air Quality Modeling Analysis

- Originally submitted February 28, 2020
- November 16, 2020 updated sulfur dioxide impacts submitted as a separate document with these amendments



Existing Sources Potential to Emit (PTE) Tons/Year (TPY)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A1 (no restrictions)	39.29	47.87	0.05	16.43	0.006	0.40	43,118
Existing Emergency Generator (500 hours per year without oxidation catalyst) EXEMPT	0.88	0.57	0.01	0.02	0.002	0.11	184
Existing Compressor Building Water Glycol Boiler (no restrictions) EXEMPT	2.84	0.60	0.11	0.34	0.017	0.00	3,069
Existing Office/Control Room Heat Furnace (no restrictions) EXEMPT	0.24	0.05	0.01	0.03	0.001	0.00	256
Existing Compressor Seal Gas Leakage (no restrictions or recovery) EXEMPT	0.00	0.00	1.48	0.00	0.00	0.00	3,351
Existing Domestic Water Heater (no restrictions) EXEMPT	0.06	0.01	0.002	0.01	0.000	0.00	63.9
Station Blowdowns and ESD (3-year average)	0.00	0.00	0.30	0.00	0.00	0.00	670
Total	43.30	49.10	1.95	16.82	0.03	0.52	50,710

New Sources Potential to Emit (PTE) Tons/Year (TPY)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A2 (unlimited operation with oxidation catalyst)	13.45	0.91	0.03	3.73	0.58	0.38	45,346
Existing Emergency Generator (500 hours per year with oxidation catalyst) EXEMPT	0.88	0.17	0.01	0.02	0.002	0.11	184
Pipeline Liquids Tank (300 gallons per year) EXEMPT	0.00	0.00	1.00	0.00	0.00	0.00	0.0
Proposed Compressor Seal Gas Leakage (no restrictions but with 90% recovery) EXEMPT	0.00	0.00	0.15	0.00	0.00	0.00	335
Incremental Station Blowdowns and ESD (same 3-year average as existing station)	0.00	0.00	0.03	0.00	0.00	0.00	66.97
2023 Minor Modification	14.33	1.08	1.21	3.75	0.58	0.50	45,932
Major Source Thresholds	100	100	50	100	100	25	100,000
% Major Source	14.3%	1.1%	2.4%	3.7%	0.6%	2.0%	0.5

Total Facility Potential to Emit (PTE) Tons/Year (TPY)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Existing Station	43.30	49.10	1.95	16.82	0.03	0.52	50,710
Proposed Turbine	13.45	0.91	0.03	3.73	0.58	0.38	45,346
Changes due to adding CO oxidation catalyst to existing emergency engine	0.00	-0.40	0.00	0.00	0.00	0.00	0.00
Proposed pipeline liquids collection tank	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Proposed compressor's seal gas emissions	0.00	0.00	0.15	0.00	0.00	0.00	335
Changes due to recovering existing facility blowdown and seal gas emissions	0.00	0.00	-1.60	0.00	0.00	0.00	-3,618
Combined Post-Project Emissions	56.75	49.61	1.53	20.55	0.60	0.90	92,773
Major Source Thresholds	100	100	50	100	100	25	100,000
% Major Source	56.8%	49.6%	3.1%	20.6%	0.6%	3.6%	92.8%

Application Package Page 48 of 49
Iroquois Pipeline Operating Company
Athens Compressor Station
ExC Project
Table 2 - PTE PPY

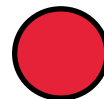


Existing Sources Potential to Emit (PTE) Pounds/Year (PPY)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A1 (no restrictions)	78,577	95,747	96.74	32,857	12.10	806	86,236,081
Existing Emergency Generator (500 hours per year without oxidation catalyst) EXEMPT	1,764	1,146	10.58	31.70	4.63	227	367,664
Existing Compressor Building Water Glycol Boiler (no restrictions) EXEMPT	5,676	1,192	217	681	34.06	0.00	6,137,069
Existing Office/Control Room Heat Furnace (no restrictions) EXEMPT	473	99.33	18.11	56.76	2.84	0.00	511,422
Existing Compressor Seal Gas Leakage (no restrictions or recovery) EXEMPT	0.00	0.00	2,964	0.00	0.00	0.00	6,701,290
Existing Domestic Water Heater (no restrictions) EXEMPT	118	24.83	4.53	14.19	0.71	0.00	127,856
Station Blowdowns and ESD (3-year average)	0.00	0.00	592.34	0.00	0.00	0.00	1,339,353.52
Total	86,608	98,209	3,903	33,641	54	1,033	101,420,735

New Sources Potential to Emit (PTE) Pounds/Year (PPY)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A2 (unlimited operation with oxidation catalyst)	26,893	1,816	55.03	7,461	1,151	767	90,692,000
Existing Emergency Generator (500 hours per year with oxidation catalyst) EXEMPT	1,764	344	10.58	31.70	4.63	227	367,664
Pipeline Liquids Tank (300 gallons per year) EXEMPT	0.00	0.00	1,999	0	0.00	0.00	0
Proposed Compressor Seal Gas Leakage (no restrictions but with 90% recovery) EXEMPT	0.00	0.00	296	0.00	0.00	0.00	670,129
Incremental Station Blowdowns and ESD (same 3-year average as existing station)	0.00	0.00	59.23	0.00	0.00	0.00	133,935
2023 Minor Modification	28,657	2,160	2,420	7,493	1,156	993.8	91,863,728

Total Facility Potential to Emit (PTE) Pounds/Year (PPY)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Existing Station	86,608	98,209	3,903	33,641	54.33	1,033	101,420,735
Proposed Turbine	26,893	1,816	55	7,461	1,151	767	90,692,000
Changes due to adding CO oxidation catalyst to existing emergency engine	0.00	-802	0.00	0.00	0.00	0.00	0.00
Proposed pipeline liquids collection tank	0.00	0.00	1,999	0.00	0.00	0.00	0.00
Proposed compressor's seal gas emissions	0.00	0.00	296	0.00	0.00	0.00	670,129
Changes due to recovering existing facility blowdown and seal gas emissions	0	0	-3,200	0	0	0	-7,236,579
Combined Post-Project Emissions	113,501	99,223	3,053	41,102	1,205	1,799	185,546,285

Application Package Page 49 of 49
Iroquois Pipeline Operating Company
Athens Compressor Station
ExC Project
Table 3 - PTE PPH



Existing Sources Potential to Emit (PTE) Pounds/Hours (PPH)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A1 (no restrictions)	8.97	10.93	0.01	3.75	0.00	0.09	9,844
Existing Emergency Generator (500 hours per year without oxidation catalyst) EXEMPT	3.53	2.29	0.02	0.06	0.01	0.45	735
Existing Compressor Building Water Glycol Boiler (no restrictions) EXEMPT	0.65	0.14	0.02	0.08	0.00	0.00	701
Existing Office/Control Room Heat Furnace (no restrictions) EXEMPT	0.05	0.01	0.00	0.01	0.00	0.00	58.38
Existing Compressor Seal Gas Leakage (no restrictions or recovery) EXEMPT	0.00	0.00	0.34	0.00	0.00	0.00	765
Existing Domestic Water Heater (no restrictions) EXEMPT	0.01	0.003	0.001	0.002	0.0001	0.00	14.60
Station Blowdowns and ESD (3-year average)	0.00	0.00	0.07	0.00	0.00	0.00	153
Total	13.21	13.37	0.47	3.90	0.01	0.55	12,271

New Sources Potential to Emit (PTE) Pounds/Hour (PPH)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Turbine Unit A2 (unlimited operation with oxidation catalyst)	3.07	0.21	0.01	0.85	0.13	0.09	10,353
Existing Emergency Generator (500 hours per year with oxidation catalyst) EXEMPT	3.53	0.69	0.02	0.06	0.01	0.45	735.33
Pipeline Liquids Tank (300 gallons per year) EXEMPT	0.00	0.00	0.23	0.00	0.00	0.00	0.00
Proposed Compressor Seal Gas Leakage (no restrictions but with 90% recovery) EXEMPT	0.00	0.00	0.03	0.00	0.00	0.00	76.50
Incremental Station Blowdowns and ESD (same 3-year average as existing station)	0.00	0.00	0.01	0.00	0.00	0.00	15.29
2023 Minor Modification	6.60	0.90	0.30	0.92	0.14	0.54	11,180

Total Facility Potential to Emit (PTE) Pounds/Hour (PPH)							
	NOx	CO	VOC	PM	SO2	HAPs	GHG
Existing Station	13.2	13.37	0.47	3.90	0.01	0.55	12,271
Proposed Turbine	3.07	0.21	0.01	0.85	0.13	0.09	10,353
Changes due to adding CO oxidation catalyst to existing emergency engine	0.00	-1.60	0.00	0.00	0.00	0.00	0.00
Proposed pipeline liquids collection tank	0.00	0.00	0.23	0.00	0.00	0.00	0.00
Proposed compressor's seal gas emissions	0.00	0.00	0.03	0.00	0.00	0.00	76.50
Changes due to recovering existing facility blowdown and seal gas emissions	0.00	0.00	-0.37	0.00	0.00	0.00	-826
Combined Post-Project Emissions	16.28	11.98	0.37	4.75	0.15	0.63	21,874