

## TABLE OF CONTENTS

### VOLUME I

<u>Section</u>	<u>Page</u>
PROJECT INFORMATION	
Matter of the Application	
Service List	
Public Notice and Affidavit of Publication	
EXHIBIT 1: GENERAL INFORMATION REGARDING APPLICATION .....	1-1
1.1    The Name of the Applicant.....	1-1
1.2    The Applicant's Address .....	1-1
1.3    The Applicant's Telephone .....	1-1
1.4    The Principal Officer of the Applicant.....	1-1
1.5    Documents and Correspondence to be Served Upon .....	1-2
EXHIBIT 2: LOCATION OF FACILITIES.....	2-1
2.1    General Description of Facility Location .....	2-1
2.1.1    Proposed Pipeline Route .....	2-1
2.1.2    Associated Facilities .....	2-3
2.2    Location Maps .....	2-4
2.3    Aerial Photographs .....	2-4
2.4    Supplemental Right-of-Way Information.....	2-5
EXHIBIT 3: ALTERNATIVES .....	3-1
3.1    Purpose and Need .....	3-1
3.2    Proposed Route .....	3-1
3.3    Alternative Routes .....	3-2
3.3.1    Alternative Route A .....	3-3
3.3.2    Alternative Route B .....	3-3
3.4    Energy Alternatives .....	3-4
EXHIBIT 4: ENVIRONMENTAL EFFECTS .....	4.1-1
4.1    Introduction .....	4.1-1
4.2    Project Description .....	4.2-1
4.2.1    Right-of-Way and Other Land Requirements.....	4.2-1
4.2.2    Pipeline Construction Methods.....	4.2-2
4.2.2.1    Clearing and Installation of Erosion Control Best Management Practices .	4.2-7
4.2.2.2    Installation of Temporary Access Roads and Work Areas.....	4.2-8
4.2.2.3    Underground Installation of Pipeline .....	4.2-10
4.2.2.4    Hydrostatic Testing.....	4.2-14
4.2.2.5    Restoration and Revegetation.....	4.2-14
4.2.3    Aboveground Facility Construction Methods.....	4.2-15
4.2.4    Project Schedule.....	4.2-16

4.3	Land Use .....	4.3-1
4.3.1	Introduction and Summary of Results .....	4.3-1
4.3.2	Laws, Policies and Regulations .....	4.3-2
4.3.2.1	Public Service Law .....	4.3-2
4.3.2.2	Article VII Regulations .....	4.3-2
4.3.2.3	New York State Coastal Zone Management Program.....	4.3-3
4.3.2.4	Local Land Use Planning and Policies .....	4.3-3
4.3.3	Existing Land Use.....	4.3-3
4.3.4	Floodplains.....	4.3-5
4.3.5	State and Local Parks/Public Lands.....	4.3-6
4.3.6	Agricultural Districts .....	4.3-6
4.3.6.1	Vineyards.....	4.3-6
4.3.7	Consistency with Local Land Use Planning and Policies.....	4.3-7
4.3.7.1	Chautauqua 20/20 Comprehensive Plan.....	4.3-7
4.3.7.2	Town of Pomfret Comprehensive Agricultural Protection Plan .....	4.3-9
4.3.8	Potential Impacts and Mitigation .....	4.3-11
4.4	Visual Resources .....	4.4-1
4.4.1	Introduction and Summary of Results .....	4.4-1
4.4.2	Laws, Policies and Regulations .....	4.4-2
4.4.2.1	Public Service Law .....	4.4-2
4.4.2.2	Article VII Regulations .....	4.4-2
4.4.2.3	NYSDEC Visual Policy.....	4.4-2
4.4.3	Existing Conditions.....	4.4-3
4.4.3.1	Visual Setting .....	4.4-3
4.4.3.2	Aesthetic and Visual Resources .....	4.4-3
4.4.4	Potential Impacts and Mitigation .....	4.4-6
4.5	Cultural Resources .....	4.5-1
4.5.1	Introduction and Summary of Results .....	4.5-1
4.5.2	Laws, Policies and Regulations .....	4.5-1
4.5.2.1	Public Service Law .....	4.5-1
4.5.2.2	Article VII Regulations .....	4.5-1
4.5.2.3	National Historic Preservation Act of 1966 (Public Law 89-665; 80 Stat 915, 16 United States Code (“USC”) 470 as amended).....	4.5-2
4.5.2.4	New York State Historic Preservation Act of 1980 – Article 14 of the Parks, Recreation and Historic Preservation Law .....	4.5-2
4.5.3	Existing Archaeological and Historic Resources.....	4.5-3
4.5.3.1	Archaeological Sites .....	4.5-3
4.5.3.2	Historic Properties .....	4.5-3
4.5.4	Cultural Resource Assessment Methodology .....	4.5-3
4.5.5	Potential Impacts and Mitigation .....	4.5-4
4.5.5.1	Archaeological Resources .....	4.5-4
4.5.5.2	Historic Properties .....	4.5-5
4.6	Geology, Topography and Soils.....	4.6-1
4.6.1	Introduction and Summary of Results .....	4.6-1
4.6.2	Laws, Policies and Regulations .....	4.6-1
4.6.2.1	Public Service Law .....	4.6-1

4.6.2.2	Article VII Regulations .....	4.6-1
4.6.2.3	New York State General Business Law Article 36 and Public Service Law Section 119-b .....	4.6-2
4.6.3	Existing Conditions.....	4.6-2
4.6.3.1	Geologic Setting .....	4.6-2
4.6.3.2	Topography.....	4.6-3
4.6.3.3	Soils .....	4.6-3
4.6.3.4	Surficial Geology.....	4.6-5
4.6.3.5	Bedrock Geology.....	4.6-6
4.6.3.6	Seismic Hazard .....	4.6-6
4.6.4	Potential Impacts and Mitigation .....	4.6-7
4.7	Terrestrial Ecology and Wildlife.....	4.7-1
4.7.1	Introduction and Summary of Results .....	4.7-1
4.7.2	Laws, Policies and Regulations .....	4.7-2
4.7.2.1	Public Service Law .....	4.7-2
4.7.2.2	Article VII Regulations .....	4.7-2
4.7.2.3	Clean Water Act .....	4.7-2
4.7.2.4	Endangered Species Act of 1973.....	4.7-3
4.7.2.5	Environmental Conservation Law of New York .....	4.7-3
4.7.3	Vegetation .....	4.7-3
4.7.3.1	Existing Vegetation along Pipeline Right-of-Way.....	4.7-4
4.7.3.2	Existing Vegetation at Associated Facilities .....	4.7-7
4.7.3.3	Threatened or Endangered Plant Species .....	4.7-7
4.7.3.4	Unique, Sensitive or Protected Plant Communities .....	4.7-9
4.7.3.5	Invasive Species .....	4.7-10
4.7.4	Wetlands .....	4.7-11
4.7.4.1	Existing Wetland Resources along Pipeline Right-of-Way .....	4.7-11
4.7.4.2	Existing Wetland Resources at Associated Facilities.....	4.7-16
4.7.5	Wildlife .....	4.7-16
4.7.5.1	Existing Wildlife Resources along Pipeline Right-of-Way.....	4.7-16
4.7.5.2	Existing Wildlife Resources at Associated Facilities .....	4.7-19
4.7.5.3	Threatened or Endangered Wildlife Species .....	4.7-20
4.7.6	Potential Effects and Mitigation .....	4.7-23
4.7.6.1	Vegetation.....	4.7-24
4.7.6.2	Wetlands .....	4.7-25
4.7.6.3	Wildlife .....	4.7-26
4.8	Water Resources.....	4.8-1
4.8.1	Introduction and Summary of Results .....	4.8-1
4.8.2	Laws, Policies and Regulations .....	4.8-1
4.8.2.1	Public Service Law .....	4.8-1
4.8.2.2	Federal/State Laws .....	4.8-2
4.8.3	Existing Conditions.....	4.8-3
4.8.3.1	Surface Waters.....	4.8-3
4.8.3.2	Aquatic Resources .....	4.8-5
4.8.3.3	Groundwater .....	4.8-6
4.8.4	Potential Impacts and Mitigation .....	4.8-7

4.8.4.1	Surface Waters.....	4.8-7
4.8.4.2	Aquatic Resources .....	4.8-8
4.8.4.3	Groundwater .....	4.8-8
4.8.4.4	Stormwater Management.....	4.8-9
4.9	Traffic and Transportation .....	4.9-1
4.9.1	Introduction and Summary of Results .....	4.9-1
4.9.2	Laws, Policies and Regulations .....	4.9-2
4.9.2.1	Public Service Law.....	4.9-2
4.9.2.2	Article VII Regulations .....	4.9-2
4.9.2.3	New York State Guidelines .....	4.9-2
4.9.2.4	Local Standards and Guidelines .....	4.9-3
4.9.3	Existing Conditions.....	4.9-4
4.9.3.1	Roadways.....	4.9-4
4.9.3.2	Railroads.....	4.9-5
4.9.3.3	Other .....	4.9-5
4.9.4	Potential Impacts and Mitigation.....	4.9-5
4.9.4.1	Roadways.....	4.9-5
4.9.4.2	Railroads.....	4.9-7
4.9.4.3	Other .....	4.9-7
4.10	Noise .....	4.10-1
4.10.1	Introduction and Summary of Results .....	4.10-1
4.10.2	Laws, Policies and Regulations .....	4.10-1
4.10.2.1	Public Service Law.....	4.10-2
4.10.2.2	Article VII Regulations .....	4.10-2
4.10.2.3	Local Standards and Guidelines .....	4.10-2
4.10.3	Existing Conditions.....	4.10-3
4.10.4	Potential Impacts and Mitigation.....	4.10-4
4.10.4.1	Pipeline .....	4.10-4
4.10.4.2	Associated Facilities.....	4.10-6
4.11	Public Health .....	4.11-1
4.12	References .....	4.12-1
4.13	Figures .....	4.13-1
<b>EXHIBIT 5: DESIGN DRAWINGS .....</b>		<b>5-1</b>
5.1	Design Standards.....	5-1
5.1.1	General Description of the Proposed Natural Gas Pipeline.....	5-1
5.1.2	Pipeline Construction Standards.....	5-1
5.1.3	Right-of-Way Width .....	5-2
5.1.4	Associated Facilities .....	5-2
5.1.5	Compressor Station.....	5-3
5.1.6	Other Structures .....	5-3
5.2	Design Drawings .....	5-3

## LIST OF TABLES

### VOLUME I

<u>Table No.</u>		<u>Page</u>
Table 2-1.	Municipalities Crossed by the Proposed Pipeline.....	2-1
Table 3-1.	Comparison of Route Alternatives.....	3-3
Table 4.2-1.	Streams Within Project Area Right-of-Way.....	4.2-6
Table 4.2-3.	Construction Overview Schedule .....	4.2-16
Table 4.4-1.	Visual, Recreational and Historical Resources Located within a Three-mile Radius .....	4.4-4
Table 4.5-1.	Archaeological Sites within a 1-Mile Radius of the Project .....	4.5-3
Table 4.6-1.	Soil Characteristics – Construction Suitability.....	4.6-3
Table 4.7-1.	State-Listed Threatened and Endangered Plant Species .....	4.7-8
Table 4.7-2.	Delineated Wetlands in Project Area .....	4.7-12
Table 4.7-3.	Federally-Listed Threatened and Endangered Species.....	4.7-20
Table 4.7-4.	New York State-Listed Species of Special Concern .....	4.7-22
Table 4.8-1.	Streams Delineated in Project Area.....	4.8-3
Table 4.9-1.	Roadways Crossed along the Project Route.....	4.9-4
Table 4.10-1.	Maximum Noise Levels of Major Construction Equipment (dBA).....	4.10-5
Table 4.10-2.	Typical Range of Sound Levels by Construction Phase .....	4.10-5

## LIST OF FIGURES

### VOLUME I

<u>Figure No.</u>		<u>Page</u>
Figure 2-1.	Facility Location Map (Sheets 1 through 2) .....	2-7
Figure 2-2.	Facilities Location Map .....	2-9
Figure 2-3.	Aerial Location Map (Sheets 1 through 12) .....	2-10
Figure 3-1.	Alternative Routes Location Map.....	3-5
Figure 4.3-1.	General Land Use within One-Mile (Sheets 1 through 3) .....	4.13-2
Figure 4.3-2.	Flood Hazards, Coastal Zone & Significant Coastal Habitat (Sheets 1 through 3) .....	4.13-5
Figure 4.3-3.	Agricultural Districts within One-Mile (Sheets 1 through 3) .....	4.13-8
Figure 4.6-1.	Surficial Geology Map 4.6-8 .....	4.13-11
Figure 4.6-2.	Bedrock Geology Map.....	4.13.12
Figure 4.7-1.	Vegetation Communities (Sheets 1 through 29).....	4.13-13
Figure 4.7-2.	Wetlands Within One-Mile (Sheets 1 through 3) .....	4.13-42
Figure 5-1.	Typical Trench (Sheets 1 through 4) .....	5-5
Figure 5-2.	Typical Trench Details (Sheets 1 through 6) .....	5-9
Figure 5-3.	Conceptual Metering Station and Regulating Station Drawings (Sheets 1 through 2).....	5-15
Figure 5-4.	Typical 16" Isolation Detail.....	5-17
Figure 5-5.	Typical Marker Post Installation.....	5-18
Figure 5-6.	Typical Access Road Detail .....	5-19
Figure 5-7.	Preliminary Plan and Profile Drawings (Sheet 1 through 13) .....	5-20

## TABLE OF CONTENTS

### VOLUME II

<u>Section</u>		<u>Page</u>
EXHIBIT 6: ECONOMIC EFFECTS OF PROPOSED FACILITY .....		6-1
6.1    Introduction and Summary of Findings .....		6-1
6.2    Demographics .....		6-1
6.3    Construction Effects and Mitigation.....		6-2
6.3.1    Construction Schedule and Major Phases.....		6-2
6.3.2    Number of Construction Workers by Discipline .....		6-3
6.3.3    Mitigation.....		6-3
6.4    Operational Effects and Mitigation.....		6-3
EXHIBIT 7: LOCAL ORDINANCES .....		7-1
7.1    Introduction.....		7-1
7.2    Chautauqua County Code .....		7-4
7.2.1    Sanitary Code.....		7-4
7.3    City of Dunkirk.....		7-4
7.3.1    Chapter 4 – Air Pollution .....		7-4
7.3.2    Chapter 15 – Building Construction .....		7-4
7.3.3    Chapter 32 – Fire Prevention .....		7-5
7.3.4    Chapter 34A – Flood Damage Prevention .....		7-6
7.3.5    Chapter 47 – Noise.....		7-7
7.3.6    Chapter 65 – Sidewalks and Streets.....		7-8
7.3.7    Chapter 76 – Vehicles and Traffic .....		7-8
7.3.7    Chapter 77 – Waterworks .....		7-9
7.3.8    Chapter 79 - Zoning .....		7-10
7.4    Town of Dunkirk .....		7-11
7.4.1    Ordinance 1976 Regulating Use and Excavation within the Highways of the Town of Dunkirk .....		7-11
7.4.2    Local Law #3 – 1985 – NYS Uniform Fire and Building Code .....		7-12
7.4.3    Local Law #1 – 1987 – Flood Damage Prevention Law .....		7-12
7.4.4    Local Law #3 – 2006 – To Administer NYS Uniform Fire and Building Code .....		7-13
7.4.3    Local Law #1 – 1998 and Amended by Local Law #2 – 2002 – Zoning Law ..		7-14
7.5    Town of Pomfret .....		7-15
7.5.1    Town of Pomfret Zoning Law .....		7-15
EXHIBIT 8: OTHER PENDING FILINGS .....		8-1
8.1    Federal Reviews and Approvals .....		8-1
8.1.1    U.S. Army Corps of Engineers – Section 404 Permit.....		8-1
8.2    State Reviews and Approvals .....		8-2
8.2.1    New York State Public Service Commission .....		8-2
8.2.2    New York State Department of Environmental Conservation – SPDES Permit for Construction Stormwater .....		8-2

8.2.3	New York State Department of Environmental Conservation – Water Withdrawal Permit.....	8-2
8.2.4	New York State Department of Environmental Conservation – Petroleum Bulk Storage Registration .....	8-3
8.2.5	New York State Department of Transportation – Utility Work Permit.....	8-3
8.2.6	New York State Thruway Authority – Work Permit .....	8-3
8.2.7	New York State Department of State – Coastal Zone Consistency Determination .....	8-3
8.3	Local and Other Reviews and Approvals .....	8-4
8.3.1	Local Railroad Companies – Easement Requests and Utility Crossings.....	8-4
8.3.2	County and Local Highway Departments – Road Occupancy and Crossings.....	8-5
	<b>EXHIBIT 9: COST OF PROPOSED FACILITIES .....</b>	<b>9-1</b>
9.1	Capital Costs .....	9-1
9.2	Sources of Information .....	9-1
	<b>EXHIBIT G-1: TOTAL GAS SUPPLY .....</b>	<b>G-1-1</b>
G-1.1	General.....	G-1-1
G-1.2	Maximum Daily and Annual Volumes .....	G-1-1
	<b>EXHIBIT G-2: MARKET DATA .....</b>	<b>G-2-1</b>
	<b>EXHIBIT G-3: REVENUES; EXPENSES; INCOME.....</b>	<b>G-3-1</b>
	<b>EXHIBIT G-4: CONSTRUCTION OF THE FACILITY .....</b>	<b>G-4-1</b>
G-4.1	Flow Diagram .....	G-4-1
G-4.2	Construction of the Facility .....	G-4-1

## **LIST OF TABLES**

### **VOLUME II**

<b><u>Table No.</u></b>		<b><u>Page</u></b>
Table 6-1.	Population of Communities Along the Proposed Pipeline .....	6-2
Table 7-1.	Compliance Summary Table.....	7-2
Table 9-1.	Summary of Capital Costs .....	9-2
Table G-4-1.	Proposed Pipeline Design Specifications.....	G-4-2

## **LIST OF FIGURES**

### **VOLUME II**

#### **Figure No.**

	<b><u>Page</u></b>
Figure 5-7. Preliminary Plan and Profile Drawings (Sheet 14 through 26) .....	5-33
Figure G-4-1. Flow Diagram of Proposed Facility .....	G-4-3

## **LIST OF APPENDICES**

### **VOLUME II**

- Appendix A Public Involvement Plan
- Appendix B Pre-Filed Direct Testimony
- Appendix C Consistency with New York State Coastal Zone Management Programs and Policies
- Appendix D Wetland Delineation Report
- Appendix E Bat Mist-net Survey Summary
- Appendix F Agency Correspondence
- Appendix G Summary of Easement Negotiations