

**Submission of Indicated New York Transmission
Owners
For Authority to Construct and Operate Electric
Transmission Facilities in Multiple Counties in
New York**

Case 13-M-0457

**Part A
Additional Environmental and Cost Information
Required at the Order of the PSC**

March 2, 2015 Submittal

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PART A
ADDITIONAL ENVIRONMENTAL AND COST INFORMATION
REQUIRED AT THE ORDER OF THE PSC
MARCH 2, 2015

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RARE, THREATENED AND ENDANGERED SPECIES REPORT

INTRODUCTION

This filing supplements the information submitted on January 20, 2015 by providing the additional environmental and cost information requested.

1.0 Additional Environmental Information

The Commission's December 16, 2014 Order ("Order") requests additional tabular and summary information, and description of facility impacts and compatibility with existing environmental conditions and land uses for: Land Cover and Land Use; Natural and Ecosystem Resources; Cultural Resources; Visual Resource; Sound Environment and Noise Assessment; and Storm Resiliency and Climate Change. In addition, the Order requests a confidential report addressing the nature and location of Rare, Threatened or Endangered ("RT&E") species habitats identified, potential impacts to RT&E species, feasible mitigation measures and the nature and probable impacts and avoidance strategies and mitigation measures.

The additional tabular and summary information is provided separately for each of the nine project alternatives proposed. The confidential RT&E Report collectively represents all nine project alternatives.

The Additional Environmental Information provided herein is based wholly or predominately on desktop review, and thus should be considered preliminary pending further review in the field. Data used to populate the various tables and figures are based on conceptual design and represent estimated impacts within project areas.

Potential temporary impacts were calculated using a conceptual layout of the project centerlines with assumptions for access road width and temporary work area size. Potential permanent impacts were calculated using assumptions for foundation diameters. Potential visibility of the proposed project facilities from cultural and visual resources was based on the conceptual layout of the project centerlines, preliminary structure locations and typical structure heights. The projects require no additional rights-of-way, so overall impacts and disturbance that would result from use of new rights-of-way are absent. During final design, the Project will minimize impacts to resources to the maximum extent practicable.

Precise calculation of impacts from access roads, work areas, pulling sites and foundations cannot be calculated based on preliminary design. In addition, locations of resources such as wetlands and rare, threatened, and endangered species habitats are speculative until formal field surveys are completed.

Further cataloging and categorization of potential impacts to sensitive resources, including field survey information and potential construction methods to minimize or avoid impacts resulting from the proposed project(s), will be summarized in the Part B Article VII Application and will supersede much of the information provided herein. The Part B Article VII Application will provide additional information on anticipated temporary and permanent environmental impacts as well as the approach for addressing environmental impacts with the appropriate agencies and stakeholders.

Once the Article VII Certificate of Environmental Compatibility and Public Need (“Certificate”), if required by the project, is issued, an Environmental Management and Construction Plan (“EM&CP”) will be submitted. The EM&CP will incorporate the environmental protection measures contained in the Certificate that will be issued for the project selected. The EM&CP will also incorporate design plans and mitigation measures required by the Certificate and by federal, state and local regulations and permits, and intended to address adjacent landowner concerns.

2.0 Additional Cost Information

The Order also requests additional cost information, consistent with what would similarly be required to satisfy the provisions in the NYISO tariff.¹ The Order states:

Each developer is to provide credible capital cost estimates stated in nominal (year of occurrence) dollars, with itemized supporting work sheets that identify material and labor cost assumptions. The work sheets are to include estimated quantification of cost variance, providing an assumed plus and minus range around the capital cost estimate. The work sheets are to itemize: material and labor cost by equipment, engineering and design work, permitting, site acquisition, procurement and construction work, and commissioning needed, all in accordance with Good Utility Practices.

For each of the above cost categories, the developer is to specify the nature and estimated cost of all major project components, and estimate the cost of the work to be done at each substation and/or on each feeder to physically and electrically connect each facility to the existing system. The work sheet should itemize, to the extent applicable, all equipment for: (i) the proposed project, (ii) interconnection facilities, and (iii) System Upgrade Facilities.

Order at pp. 42-43.

The requested additional cost work sheets and assumptions are being provided separately for each of the nine project alternatives proposed.

¹ NYISO Open Access Transmission Tariff, Attachment Y, §31.4.8.1.

2.1 Summary of Capital Cost Estimates

A summary of the capital costs estimates for the proposed projects in 2014 dollars was submitted as Table 1.1 in Attachment 3 of the January 7, 2015 submittal. In preparing the cost backup information for this submittal, several adjustments and corrections were made to the estimates. As part of this submittal, the Applicant provides a revised summary of capital cost estimates in nominal year dollars for each of the proposed projects in Table 2.1.

Table 2.1: Summary of Proposed Project Estimated Cost*

Project	Base Cost (x\$1,000)	Risk & Contingency		Other (x\$1,000)	Total Cost (nominal x\$1,000)
		(%)	(x\$1,000)		
Enhanced O-F/ED-PV Project	1,105,764	-	283,268	68,475	1,457,507
O-F Component	136,558	30%	40,967	68,475	246,000
ED-NS/KB-PV Component	969,206	25%	242,301	-	1,211,507
KB-PV Project	424,812	25%	106,203	-	531,015
LD-PV (R) Project	185,155	30%	55,547	-	240,702
HA Project	77,640	30-50%	31,755	-	109,395
NS-LD (R) & LD-PV Project	421,581	30%	126,474	-	548,055
ED-NS & KB-PV Project	969,206	25%	242,301	-	1,211,507
ED-NS & NS-LD-PV (R) Project	860,007	27%	232,202	-	1,092,209
ED-NS/HA Project	620,444	-	167,456	-	787,900
ED-NS Component	542,804	25%	135,701	-	678,505
HA Component	77,604	30-50%	31,755	-	109,395
ED-NS, NS-LD (R) & LD-PV Project	971,978	27%	262,434	-	1,234,412

*Total costs are in nominal year of occurrence dollars.

2.2 Description of Estimates

Individual project estimates were developed independently by the various transmission owners and are presented in varying formats within this submittal. The “Base Cost” identified above in Table 2.1 includes direct and indirect costs, subject to the assumptions set forth in the Detailed Cost Information sections of this submission. The “Total Cost” estimates are in nominal year of occurrence dollars and assume an escalation rate of three percent per year. Risk & Contingency is provided for each project reflecting the degree of preliminary scoping, planning, engineering, and field review that have been performed for each project.

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