BEFORE THE PUBLIC SERVICE COMMISSION
OF MARYLAND

IN THE MATTER OF THE
APPLICATION OF BALTIMORE GAS AND ELECTRIC COMPANY
FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY
FOR THE BAGLEY 230KV TRANSMISSION LINE BYPASS

APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

Baltimore Gas and Electric Company (“Applicant” or “BGE”) submits this Application for a Certificate of Public Convenience and Necessity (“CPCN”) for the modification of an existing 230 kV overhead transmission line, as described below and in the attached Environmental Review Document (the “Project”), pursuant to Md. Code Ann., Pub. Util. Cos. Art. § 7-207 and the provisions of Section 20.79.01, et seq., of the Code of Maryland Regulations (“COMAR”) (“Application”). This Project was previously presented to the Commission on October 14, 2009 as a “Request for Waiver of CPCN Requirements for Planned Transmission Modification” (“Waiver Request”). The Waiver Request was denied by Commission Letter Order on September 9, 2010.

BGE respectfully requests expedited review of this Application and, in support thereof, notes that (1) the Project involves limited construction activities; (2) the Project is contained primarily within the existing right-of-way; (3) the Project has already undergone review by the Power Plant Research Program and Commission Staff, and neither objected to authorization of the Project in the form of a CPCN waiver; (4) the Project is already beyond the planned construction start date of March 2010; and (5) BGE now seeks authorization by early March 2011 to allow construction activities to begin in
coordination with Spring 2011 outages, and to support Project completion before the 2011 summer peak. The consequences of delaying the Project are described in greater detail in Paragraph K, below.

BGE submits the following and the attached Environmental Review Document, which is incorporated herein, in accordance with the COMAR filing requirements:

A. **APPLICANT'S NAME**

The name of the Applicant is Baltimore Gas and Electric Company.

B. **ADDRESS OF PRINCIPAL BUSINESS OFFICE**

The address of the principal business office of the Applicant is 2 Center Plaza, 110 West Fayette Street, Baltimore, MD 21201.

C. **PERSONS AUTHORIZED TO RECEIVE NOTICES**

The names, titles, and address of the persons authorized to receive notices and communications with respect to the application are as follows:

- F. William DuBois, Esquire
  Saul Ewing LLP
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  Baltimore, Maryland 21202
  Phone: (410) 332-8626
  wdubois@saul.com

- Damon L. Krieger, Senior Counsel
  Baltimore Gas and Electric Company
  2 Center Plaza
  110 West Fayette Street
  Phone: (410) 470-1402
  damon.krieger@constellation.com

D. **LOCATION AT WHICH A COPY OF THIS APPLICATION IS AVAILABLE**

The location at which the public may inspect the Application and maps:

Baltimore Gas and Electric Company
2 Center Plaza – 13th Floor
110 West Fayette Street
Baltimore, MD 21201

E. **LOCAL, STATE, OR FEDERAL GOVERNMENT AGENCIES HAVING AUTHORITY TO APPROVE OR DISAPPROVE CONSTRUCTION OR OPERATION OF THE PROJECT**
A CPCN is required for the Project. Additional required approvals are described in Table 1.0-2 of the Environmental Review Document.

F. PROPOSED PLAN, ALTERNATIVE PLANS CONSIDERED, AND PURPOSE AND JUSTIFICATION

1. Proposed Plan

This Project involves the modification of existing 230 kV overhead transmission lines and associated structures within a short segment of the existing right-of-way in Harford County northeast of Baltimore near the intersection of Fallston Road (Maryland Route 152) and Harford Road (Maryland Route 147). The work is necessary to facilitate construction of the Bagley New 230 kV-to-34.5 kV Master Substation, which is needed to address load growth in BGE’s service territory. BGE plans to complete construction of the Bagley substation by June 2012. The modification of the existing transmission line is planned to be completed in spring 2011. The activities are necessary to provide needed 34 kV electric capacity in Harford County to supply load growth expected from the base realignment and closure (BRAC) expansions in and around Aberdeen Proving Grounds.

Two existing lattice structures will be removed as part of the Project. Replacement structures will be two H-frame structures and four tapered weathering steel poles. The Project will also include the installation of transmission leads from the existing right-of-way into the new substation abutting the right-of-way. A circuit breaker bullpen will also be constructed within the existing right-of-way as part of the project. The bullpen will consist of a fenced-in area containing a 230 kV circuit breaker and two disconnect switches that will improve the reliability for the single-circuit 230 kV line between the Raphael Road and Graceton substations. The breaker will give BGE the capability of sectionalizing the line into two distinct circuits – the Graceton to Bagley circuit and the Bagley to Raphael Road circuit.

2. Alternative Plans Considered

Alternative plans were not considered due to the fact that this Project involves the modification of an existing 230 kV transmission line as opposed to the construction of a new transmission line.
3. Purpose and Justification

The Project will support substation changes to provide load relief for the Otter Point and Harford Master Substations. The load relief is required to address projected load estimates associated with BRAC expansions in and around Aberdeen Proving Grounds (“APG”). APG is experiencing significant growth due to the Army’s BRAC initiative. This initiative will create approximately 9,000 new Federal jobs and 8,000 new households in the APG Harford County area. 1.8 million square feet of new buildings will be added at APG due to functions moving from Fort Monmouth. Because of this, Harford County will experience an above average load growth (~3%) through 2015. Two new business parks outside the gates to APG, the St. John Properties G.A.T.E. Business Park and the COPT North Gate Business Park, have already started construction. In December 2008, the first building within the G.A.T.E. Business Park was placed in service. In total, BGE anticipates approximately 45 MW of additional load associated with BRAC.

In addition, the Project will result in improved reliability for customers served in area.

4. Stability and Reliability Impacts

This Project is intended to support the stability and reliability of the electrical system. The reliability benefit of this Project is the enhancement of BGE’s ability to serve load in the area.

G. DESCRIPTION OF TRANSMISSION LINE

The Project consists of the modification of existing 230 kV overhead transmission lines and associated structures, primarily within a short segment of the existing right-of-way in Harford County northeast of Baltimore near the intersection of Fallston Road (Maryland Route 152) and Harford Road (Maryland Route 147). Specifically, the Project will require the installation of two H-frame structures and four tapered weathering steel poles. The Project will also include the installation of transmission leads from the existing right-of-way into the new substation abutting the right-of-way. A circuit breaker bullpen will also be constructed within the existing right-of-way as part of the project.

1. Engineering and Construction Features

   a. Width, Length and Total Acreage of Right-of-Way

   The right-of-way affected by the Project is 150 ft wide and approximately 1,500 ft long, for a total approximate right-of-way area of 5.165 acres. Some additional clearing will be required, as
depicted in Figure 3.1-1, to accommodate the transmission leads into the new substation and to provide required buffer.

b. Line Voltage

The line will be energized at 230 kilovolts (kV).

c. Number of Circuits

Following the planned modification, there will be one circuit, designated as Circuit 2313.

d. Number of Circuits per Structure

Following the planned modification, there will be one circuit per structure.

e. Structure Type and Dimensions

The planned modification encompasses the installation of two H-frame type structures and four tapered weathering steel poles. Exact structure dimensions have not been determined but all structures will be at least 100 ft tall.

f. Conductor Configuration and Size

The Project will use a single bundle conductor that will be 1,590 MCM 45/7 ACSR (Lapwing), 0.512-inch diameter fiber optic cable, and 3/8-inch alumoweld static wire.

g. Nominal Capacity (MVA)

The project is designed to provide a nominal summer capacity of 488 MVA. This capability can be increased to 604 MVA during the winter and for short durations to respond to emergency operating conditions.

h. Nominal Length of Span between Structures

The nominal span length of the project is 300 feet with a maximum length of 465 feet and a minimum length of 125 feet.

2. Property and Property Rights Acquired

There are two parcels directly affected by this project and BGE owns both in fee.
The Project area is approximately three miles south/southwest of Bel Air and two miles southeast of Fallston.

3. Access Roads for Construction or Maintenance

See Environmental Review Document, § 3.7

4. Location and Identification of the Followings Sites, from which the Project Would be Clearly Visible

   a. Historical
      See Environmental Review Document, § 2.3 & 4.6.4
   b. Institutional Land
      See Environmental Review Document, § 2.4 & 4.6
   c. Recreational Areas
      See Environmental Review Document, § 2.4 & 4.6
   d. Aesthetic Areas
      See Environmental Review Document, § 2.4 & 4.6
   e. Archeological
      See Environmental Review Document, § 2.3 & 4.6.4
   f. Wildlife Management Areas
      See Environmental Review Document, § 2.4 & 4.6
   g. Parks or Forests
      See Environmental Review Document, § 2.4 & 4.6

5. Location of All Right-of-Way Requiring Construction Within the 100-year Floodplain

See Environmental Review Document, § 2.2.3, 4.3 and Figure 2.2-3
6. Location of Public Airports Within One Mile

There is one public use airport located within one mile of the Project; see Environmental Review Document § 2.4.4 and Appendix B.

7. Depiction of Line Route on Topographic Map

See Environmental Review Document, Figure 2.1-4

H. Cost and Financing

1. Capital Cost

The capital cost of the Project is estimated to be approximately $3,500,000.

2. Operating Cost

The marginal operating cost associated with the Project is expected to be equivalent to or slightly less than existing equipment.

3. Source of Funds

This Project is expected to be financed primarily through internally generated funds.

I. ALTERNATIVE TRANSMISSION LINE ROUTES CONSIDERED

See Environmental Review Document, § 3.2

J. ENVIRONMENTAL INFORMATION

1. General Description of the Physical, Biological, and Cultural Features, and Conditions of the Site and Adjacent Areas

The Project site is located on a short segment of the existing right-of-way in Harford County northeast of Baltimore near the intersection of Fallston Road (Maryland Route 152) and Harford Road (Maryland Route 147).¹

¹ Section 2.1 of the ECT Environmental Review (appended hereto), provides a complete description of the physical location of the Project, as well as maps, aerial photographs, and figures depicting the transmission line route.
The Project, which is located within an existing ROW accommodating an existing 230 kV transmission line and associated structures, is located in a developed area of Harford County.\(^2\) There are certain cultural resources located within the vicinity of the Project, however, these resources will not be impacted by the Project.\(^3\)

2. **Summary of Environmental and Socioeconomic Effects of Construction and Operation of the Project**

The construction of the Project will have minimal effect on the natural environment because existing, maintained rights of way will be used. The Project will have a positive, although minimal, socioeconomic impact on the Baltimore area. The Project will generate tax revenue for state and local governments and will create temporary local construction jobs.\(^4\)

3. **Environmental Impact Studies**

An assessment of existing environmental conditions and an analysis of potential Project impacts were performed by Environmental Consulting & Technology, Inc. The assessment of conditions included compiling existing information and collecting site information during visits in October 2007 and May 2010. The Environmental Review Document is appended to this Application as Exhibit 1.

4. **Ability to Conform to Applicable Environmental Standards**

Construction and operation of transmission line will conform to all environmental standards.

\(^2\) Section 2.2 of the ECT Environmental Review provides a description of the biophysical environment around the Project site, including the meteorology, air quality, geohydrology, surficial hydrology, ecology, and environmental acoustics. Section 2.4 of the ECT Environmental Review provides a description of how the lands that surround the Project site are currently being used.

\(^3\) Section 2.3 of the ECT Environmental Review Document addresses cultural resources located within the vicinity of the Project, including certain archeological, architectural, and historical resources that may be impacted by the Project.

K. CONSEQUENCES OF DELAY

Based on projected load estimates associated with BRAC expansion in and around the construction of the Bagley substation must be completed and the substation must be in service by the summer of 2012 to avoid the threat of a loss of load. Specifically, if the substation is not in service and a transformer is lost at either Harford or Otter Point during 2012 peak summer conditions, BGE would be required to shed load. Under this scenario, approximately 1-2 feeders worth of load would be shed. A typical residential customer feeder serves approximately 1,200 customers. The amount of load that would need to be shed under this scenario will increase as new load is added to the system.

In order to support a summer 2012 operation date for the substation, this Project must be completed in spring 2011 and in service no later than June 2011. Construction is estimated to require approximately 3 months to complete.

L. DESCRIPTION OF APPLICANT'S OTHER MAJOR UNDERTAKINGS DURING THE CONSTRUCTION OF THE PROJECT

BGE filed its ten-year plan for transmission construction activities with the Commission in October 2009. The plan outlines other transmission activities that will be undertaken during construction of the Project.

WHEREFORE, the Applicant requests that the Commission issue a Certificate of Public Convenience and Necessity authorizing the construction of the Project proposed by the Applicant as described herein and shown in the appended Environmental Review Document.

Respectfully submitted,

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VERIFICATION

State of Maryland )
County of Baltimore )

I, Ralph H. Bourquin, Jr., Vice President, Transmission Interconnection Management of Baltimore Gas and Electric Company, on behalf of the Applicant named in the foregoing Application for a Certificate of Public Convenience and Necessity being duly sworn, say that the facts and allegations therein are true, except so far as they are therein stated to be on information, and that, so far as they are stated to be on information, believes them to be true.

[Signature]
Ralph H. Bourquin, Jr.

Taken, sworn to and subscribed before me this 17th day of September, 2010.

[Signature]
Notary Public

My commission expires on the 1st day of Jan., 20__.

[Seal]
Marguerite F. Strobel
My Commission Expires
January 1, 2011
I HEREBY CERTIFY that on this 20th day of September, 2010, pursuant to COMAR 20.79.02.02, the foregoing Application of Baltimore Gas and Electric Company for a Certificate of Public Convenience and Necessity was mailed, postage prepaid, to the following:

Shari T. Wilson, Secretary
Maryland Department of the Environment (four copies)
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