CENTRAL MAINE POWER

June 29, 2018

Mr. James R. Beyer
Maine Department of Environmental Protection
Division of Land Resources Regulation
106 Hogan Road
Bangor, ME 04401

Ms. Naomi Kirk-Lawlor
Land Use Planning Commission
Department of Agriculture, Conservation and Forestry
18 Elkins Lane
Augusta, Maine 04330

RE: New England Clean Energy Connect Project
Requested and Revised Photosimulations

Dear Mr. Beyer and Ms. Kirk-Lawlor:

Central Maine Power Company (CMP) is pleased to provide the attached photosimulations for the New England Clean Energy Connect (NECEC) project. The photosimulations, as detailed below, are being submitted in response to respective requests by the Maine Department of Environmental Protection (MDEP) and the Land Use Planning Commission (LUPC).

In MDEP's November 20, 2017 Environmental Information Request (Questions 5-7), MDEP requested additional photosimulations of Outstanding River Segments. CMP is providing the following photosimulations:

- Photosimulation 34: Carrabassett River, Anson
- Photosimulation 35: Sandy River, Farmington
- Photosimulation 36 and 37: West Branch Sheepscot River, Windsor

As a follow-up to MDEP and LUPC's May 7, 2018 Letter, and in subsequent consultation with MDEP and LUPC, CMP is submitting the following materials for the Brookfield Alternative:

- Photosimulations 38 through 41: Four views of the Brookfield Alternative from viewpoints recommended by the LUPC.
- Cross Section A: As requested by LUPC, this cross section depicts a location along the alternative route, where the corridor runs parallel and is within close proximity to the Kennebec River. Cross Section A shows that there will be no visibility of the transmission line by recreational rafters on the river.
- A viewshed is also provided for the Brookfield Alternative, as requested by LUPC.

83 Edison Drive, Augusta, ME 04660
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info@necleanenergyconnect.com
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Additional updates to existing photosimulations:

- Photosimulation 32: Kennebec Gorge Picnic Area. This photosimulation, dated June 21, 2018, was updated to show the panoramic view looking south-southwest from the river. This photosimulation differs from the January 22, 2018 panoramic view, as the January panoramic view depicts the 'normal' view output from the modeling software over the merged panoramic image, while the June panoramic image shows the angle of the conductors as distorted, similar to the effect of a fish eye lens. It should be noted that the proposed project visibility is best assessed by reviewing the normal views because there is no distortion. The normal views in both the January 22, 2018 and June 21, 2018 remain the same.
- Photosimulation 33: North of Picnic Area. This photosimulation is an update to the December 12, 2017 Kennebec Gorge 3 Structure Option. There are no substantive changes to the simulations; the only change is a correction to the titles in the upper left corner (33A through 33D).
- Photosimulations 13-15: Moxie Pond. CMP has redesigned the transmission line section along the west side of Moxie Pond. The monopole structures are 30 feet shorter than the original design. The redesign reduces the span length, with the addition of structures, to reduce structure heights to 70 feet.

CMP will be submitting a comprehensive response to the MDEP and LUPC's May 7, 2018 letter in the near future. If you have any questions regarding this analysis, please give me a call at (207) 629-9717 or email gerry.mirabile@cmpco.com.

Sincerely,

Gerry J. Mirabile

Gerry J. Mirabile
Manager – Environmental Projects
Environmental Permitting
AVANGRID Networks, Inc.

Enclosures

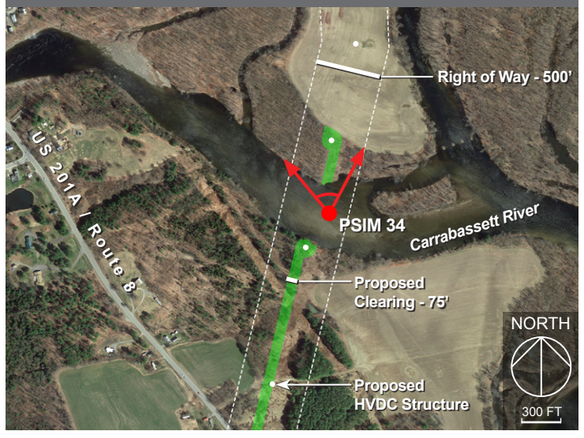
cc: Jay Clement, USACE; Samantha Horn, LUPC; Bill Hinkel, LUPC; Christopher Lawrence, USDOE; Melissa Pauley, USDOE; Bernardo Escudero, CMP; Mark Goodwin, Burns & McDonnell; Matt Manahan, Pierce Atwood; Jared des Rosiers, Pierce Atwood
File: New England Clean Energy Connect

PHOTOSIMULATION 34: CARRABASSETT RIVER, Anson

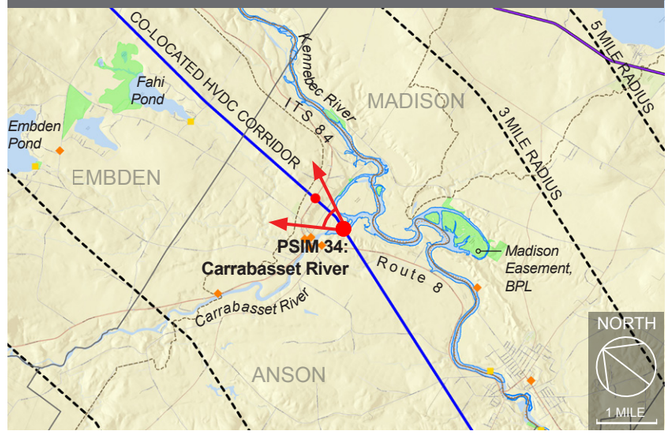
NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Panoramic view looking north to northwest from the Carrabassett River in Anson toward the proposed co-located HVDC transmission line. The existing 225’ wide cleared corridor will be widened by 75’ on the western side to accomodate the proposed HVDC transmission line. Five proposed HVDC structures and conductors will be visible at distances of 540 feet to 3,160 feet from this viewpoint.

LOCATION MAP

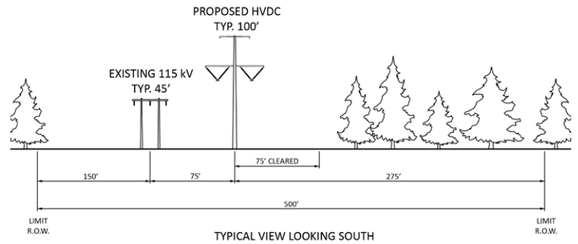


CONTEXT MAP



TECHNICAL INFORMATION

Typical Cross Section



Photograph / Photosimulation Information

Location	44.851508°, -69.885937°
Viewing Direction	North to Northeast
Horizontal Angle of View	67°
Date and Time	04/24/18 at 2:07 pm
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	5
Approximate Distance to Nearest Visible Structure	540 ft

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tjd&a

EXISTING CONDITIONS 34A: CARRABASSETT RIVER, Anson

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking north from the Carrabassett River in Anson toward the existing 115 kV transmission line.

PHOTOSIMULATION 34B: CARRABASSETT RIVER, Anson

NEW ENGLAND CLEAN ENERGY CONNECT

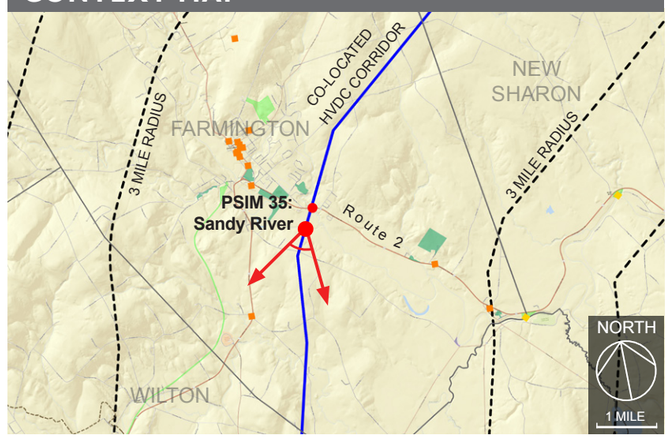
Proposed Conditions: Normal view looking north from the Carrabassett River in Anson toward the proposed co-located HVDC transmission line. The existing 225' wide cleared corridor will be widened by 75' on the western side to accomodate the proposed HVDC transmission line. Five proposed HVDC structures and conductors will be visible at distances of 540 feet to 3,160 feet from this viewpoint.

PHOTOSIMULATION 35: SANDY RIVER, Farmington

Proposed Conditions: Panoramic view looking south to west from the Sandy River in Farmington toward the proposed co-located HVDC transmission line. The existing 225’ wide cleared corridor will be widened by 75’ on the western side to accommodate the proposed HVDC transmission line. Two proposed HVDC structures and conductors will be visible at distances of 825 to 1,600 feet from this viewpoint.

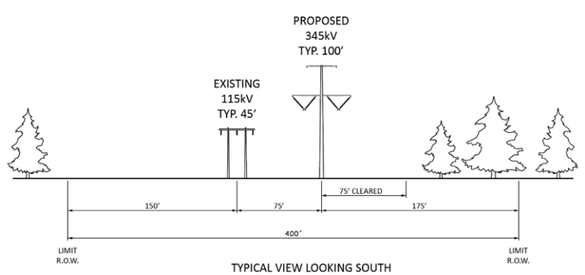
LOCATION MAP

CONTEXT MAP



TECHNICAL INFORMATION

Typical Cross Section



Photograph / Photosimulation Information

Location	44.649027°, -69.131998°
Viewing Direction	South to West
Horizontal Angle of View	71°
Date and Time	04/24/18 at 3:32 pm
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	2
Approximate Distance to Nearest Visible Structure	825 ft

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EXISTING CONDITIONS 35A: SANDY RIVER, Farmington

Existing Conditions: Normal view looking south from the Sandy River in Farmington toward the existing 115 kV transmission line.

PHOTOSIMULATION 35B: SANDY RIVER, Farmington

Proposed Conditions: Normal view looking south from the Sandy River in Farmington toward the proposed co-located HVDC kV transmission line. The existing 225’ wide cleared corridor will be widened by 75’ on the western side to accommodate the proposed HVDC transmission line. Two proposed HVDC structures and conductors will be visible at distances of 825 to 1,600 feet away from this viewpoint.

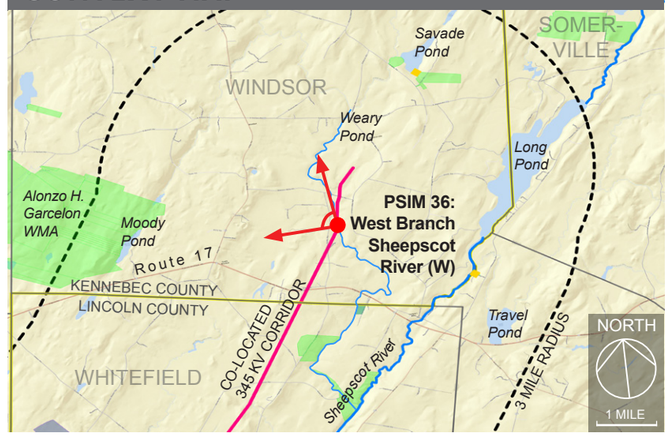
PHOTOSIMULATION 36: WEST SHEEPSCOT RIVER (LOOKING WEST), Windsor

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Panoramic view looking west to north from the West Branch Sheepscot River in Windsor toward the proposed co-located 345 kV transmission line (see continuation of this view to the north, Photosimulation 36). The existing 345 kV transmission line will be relocated 40' to the west to accommodate the proposed 345 kV transmission line. One proposed 345 kV structure and conductors will be visible approximately 112 feet from this viewpoint. No additional vegetation will be removed in this area directly adjacent to the river.

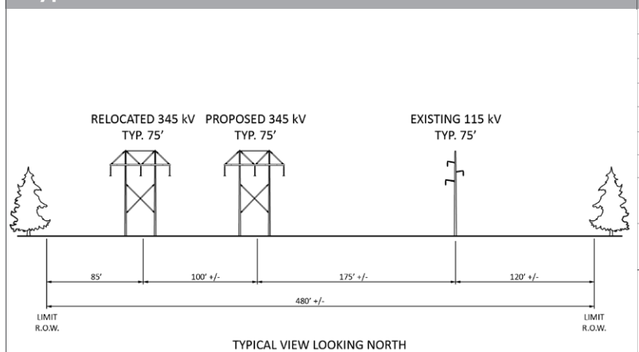
LOCATION MAP

CONTEXT MAP



TECHNICAL INFORMATION

Typical Cross Section



TYPICAL VIEW LOOKING NORTH

Photograph / Photosimulation Information

Location	44.282987°, -69.56534
Viewing Direction	West to North
Horizontal Angle of View	80°
Date and Time	04/24/18 at 5:06 pm
Camera Focal Length	35 mm
Camera Make/Model	Nikon D7100
Photo Source	TJD&A
Proposed Structures Visible	1
Approximate Distance to Nearest Visible Structure	112 feet

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EXISTING CONDITIONS 36A: WEST SHEEPSCOT RIVER (LOOKING WEST), Windsor

Existing Conditions: Normal view looking west from the West Branch Sheepscot River in Windsor toward the existing 345 kV transmission line.

PHOTOSIMULATION 36B: WEST SHEEPSCOT RIVER (LOOKING WEST), Windsor

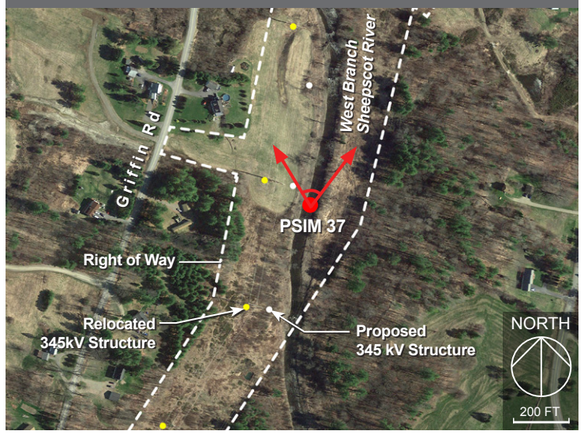
Proposed Conditions: Normal view looking west from the West Branch Sheepscot River in Windsor toward the proposed co-located 345 kV transmission line. The existing 345 kV transmission line will be relocated 40' to the west to accommodate the new proposed 345 kV transmission line. One proposed 345 kV structure and conductors will be visible approximately 112 feet from this viewpoint. No additional vegetation will be removed in this area directly adjacent to the river.

PHOTOSIMULATION 37: WEST BRANCH SHEEPSCOT RIVER (LOOKING NORTH), Windsor

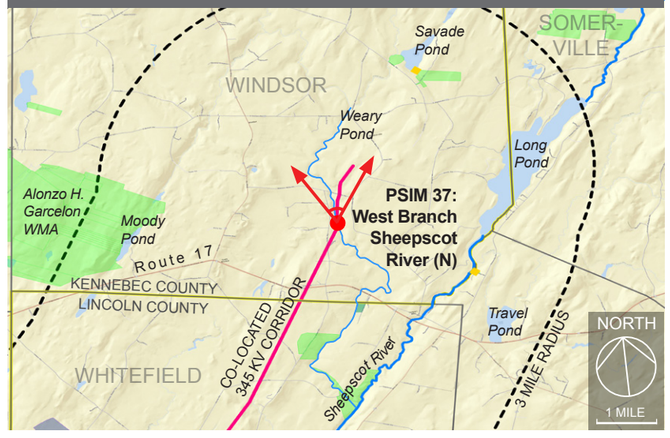
NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Panoramic view looking northwest to northeast from the West Branch Sheepscot River in Windsor toward the proposed co-located 345 kV transmission line (this view is a continuation of Photosimulation 35). The existing 345 kV transmission line will be moved 40' to the west to accommodate the new proposed 345 kV transmission line. Three proposed 345 kV structures and conductors will be visible at distances of 450 to 1,250 feet from this viewpoint. Minimal vegetation removal will be required for one of the proposed 345 kV transmission structures.

LOCATION MAP

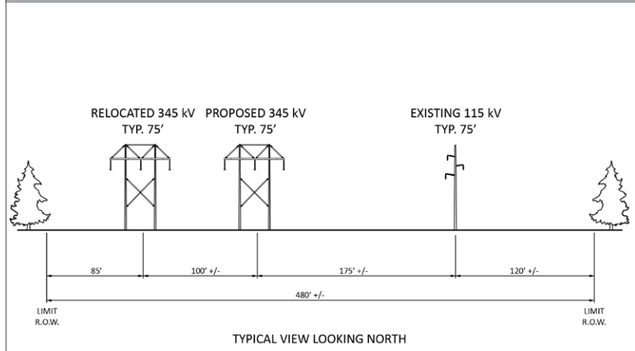


CONTEXT MAP



TECHNICAL INFORMATION

Typical Cross Section



TYPICAL VIEW LOOKING NORTH

Photograph / Photosimulation Information

Location	44.282987°, -69.56534°
Viewing Direction	Northwest to Northeast
Horizontal Angle of View	61°
Date and Time	04/24/18 at 5:26 pm
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	3
Approximate Distance to Nearest Visible Structure	450 feet

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EXISTING CONDITIONS 37A:WEST BRANCH SHEEPSCOT RIVER (LOOKING NORTH), Windsor

Existing Conditions: Normal view looking north from the Sheepscot River in Windsor toward the existing 345 kV transmission line.

PHOTOSIMULATION 37B: WEST BRANCH SHEEPSCOT RIVER (LOOKING NORTH), Windsor

Proposed Conditions: Normal view looking north from the Sheepscot River in Windsor toward the proposed co-located 345 kV transmission line. The existing 345 kV transmission line will be moved 40' to the west to accommodate the new proposed 345 kV transmission line. Three proposed 345 kV structures and conductors will be visible at distances of 450 to 1,250 feet from this viewpoint. Minimal vegetation removal will be required for one of the proposed 345 kV transmission structures.

EXISTING CONDITIONS 37C:WEST BRANCH SHEEPSCOT RIVER (LOOKING NORTH), Windsor

Existing Conditions: Normal view looking north from the West Branch Sheepscot River in Windsor toward the existing 115 kV and 345 kV transmission lines.

PHOTOSIMULATION 37D:WEST BRANCH SHEEPSCOT RIVER (LOOKING NORTH), Windsor

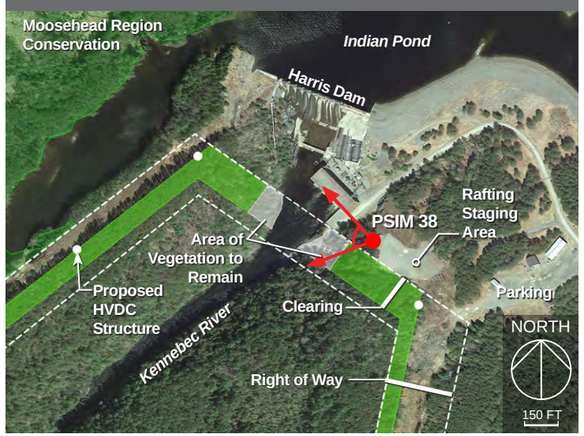
Proposed Conditions: Normal view looking north from the Sheepscot River in Windsor toward the proposed co-located 345 kV transmission line. The existing 345 kV transmission line will be moved 40’ to the west to accommodate the new proposed 345 kV transmission line. Three proposed 345 kV structures and conductors will be visible at distances of 450 to 1,250 feet from this viewpoint. No additional vegetation will be removed on the east side of the river.

PHOTOSIMULATION 38: BROOKFIELD OPTION - Top of Access Stair at Harris Dam, Indian Stream Township

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Panoramic view looking west to northwest from the top of the Kennebec River access stair adjacent to the Harris Dam. The roof of the powerhouse, a concrete sluiceway, and a portion of the Jackman Tie Line are visible in this image. One proposed 85' HVDC structure would be visible across the river approximately 880 feet from this location. The conductors would be approximately 180' above the water level. Shield wires and conductors with marker balls would pass directly over the access stairs. Approximately 325' of vegetation below the visible structure within the 150' wide corridor would be removed to maintain clearance for the conductor safety zone. Approximately 105' of vegetation would remain adjacent to the river on the northwest side, and 150' on the southeast side.

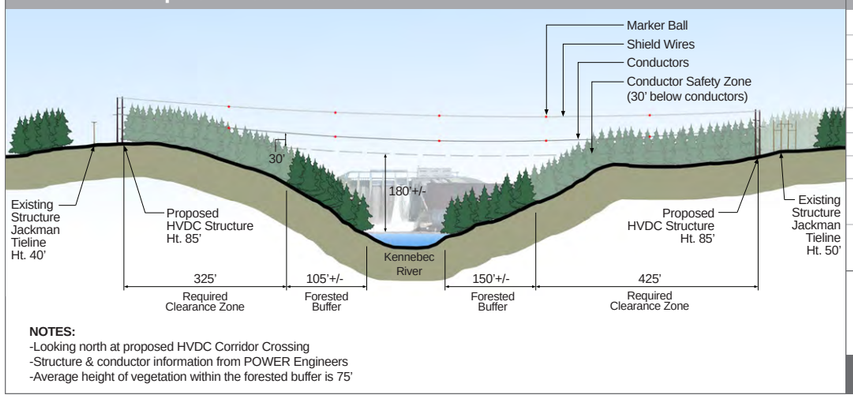
LOCATION MAP



CONTEXT MAP

TECHNICAL INFORMATION

Brookfield Option Near Harris Dam



NOTES:
-Looking north at proposed HVDC Corridor Crossing
-Structure & conductor information from POWER Engineers
-Average height of vegetation within the forested buffer is 75'

Photograph / Photosimulation Information

Location	45.458607°, -69.864533
Viewing Direction	West to Northwest
Horizontal Angle of View	87°
Date and Time	05/29/18 at 10:39am
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	1
Approximate Distance to Nearest Structure	880 feet

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EXISTING CONDITIONS 38A: BROOKFIELD OPTION - Top of Access Stair at Harris Dam, Indian Stream Township

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking northwest from the top of the Kennebec River access stair adjacent to the Harris Dam.

PHOTOSIMULATION 38B: BROOKFIELD OPTION - Top of Access Stair at Harris Dam, Indian Stream Township

Proposed Conditions: Normal view looking northwest from the top of the Kennebec River access steps adjacent to Harris Dam. Due to the steep topography and required clearing, one 85' HVDC structure would be entirely visible on the north side of the river, 880 feet from this viewpoint. The proposed clearing would reveal an additional portion of the existing Jackman Tie Line transmission corridor behind the proposed structure.

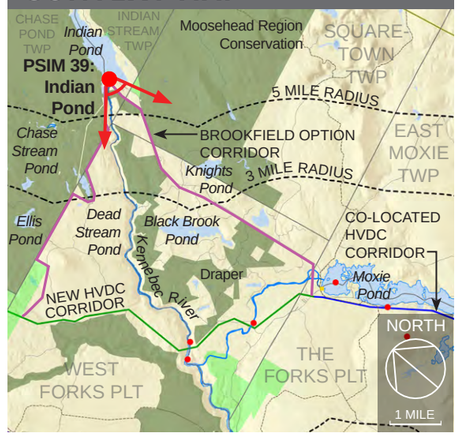
PHOTOSIMULATION 39: INDIAN POND - IMPOUNDMENT, Indian Stream Township

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Panoramic view looking south to west from Indian Pond Impoundment toward the Harris Dam and existing Jackman Tie Line transmission corridor. Portions of five proposed HVDC structures would be visible at distances of approximately 1,810 to 3,100 feet from this location.

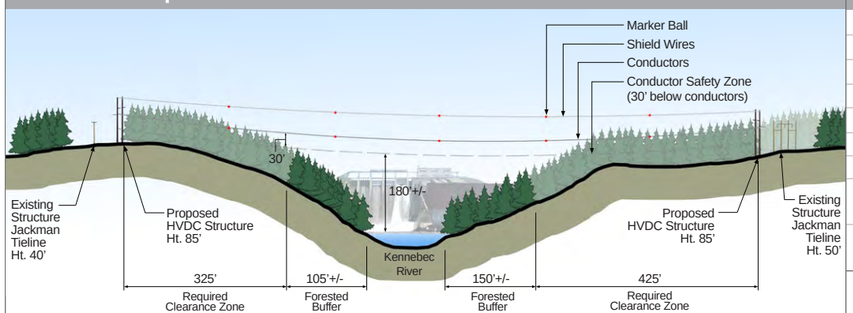
LOCATION MAP

CONTEXT MAP



TECHNICAL INFORMATION

Brookfield Option Near Harris Dam



NOTES:
-Looking north at proposed HVDC Corridor Crossing
-Structure & conductor information from POWER Engineers
-Average height of vegetation within the forested buffer is 75'

Photograph / Photosimulation Information

Location	45.462768°, -69.862345
Viewing Direction	South to West
Horizontal Angle of View	72°
Date and Time	05/29/18 at 11:31am
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	5
Approximate Distance to Nearest Structure	1,810 feet

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EXISTING CONDITIONS 39A: INDIAN POND - IMPOUNDMENT, Indian Stream Township

Existing Conditions: Normal view looking southwest from Indian Pond Impoundment toward the Harris Dam.

PHOTOSIMULATION 39B: INDIAN POND - IMPOUNDMENT, Indian Stream Township

Proposed Conditions: Normal view looking southwest from Indian Pond Impoundment toward the Harris Dam. Two proposed HVDC structures, corridor clearing, and conductors with marker balls would be visible looking in this direction from the southern end of Indian Pond.

EXISTING CONDITIONS 38C: INDIAN POND - IMPOUNDMENT, Indian Stream Township

Existing Conditions: Normal view looking west from Indian Pond Impoundment toward the Harris Dam and the existing Jackman Tie Line transmission corridor.

PHOTOSIMULATION 39D: INDIAN POND - IMPOUNDMENT, Indian Stream Township

Proposed Conditions: Normal view looking west from Indian Pond toward the Harris Dam and the existing Jackman Tie Line transmission corridor. Three proposed HVDC structures, corridor clearing, and conductors with marker balls would be visible looking in this direction from the southern end of Indian Pond.

PHOTOSIMULATION 40: BROOKFIELD OPTION - Rafting Put-In Location on Kennebec River, Indian Stream Township

NEW ENGLAND CLEAN ENERGY CONNECT

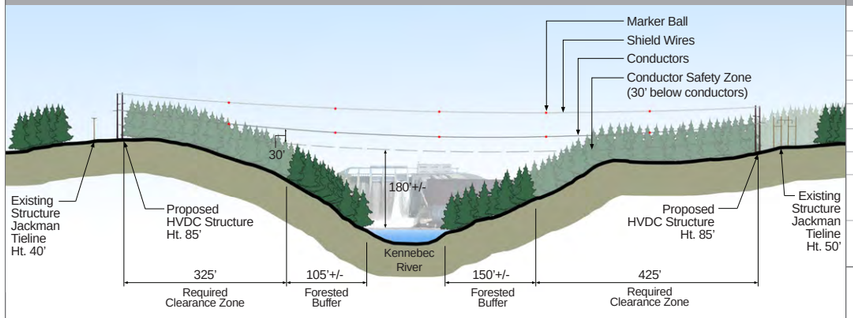
Proposed Conditions: Panoramic view looking northwest to north from the rafting launch area on the Kennebec River below Harris Dam. Due to the steep terrain and clearing limits of the proposed corridor, the closest structure on the northwest side of the river will be screened from view by existing foreground trees. The closest structure on the southeast side of the river will not be visible. Conductors with marker balls will be visible approximately 180 feet above the river. The required vegetation removal will be minimally noticeable from this location.

LOCATION MAP

CONTEXT MAP

TECHNICAL INFORMATION

Brookfield Option Near Harris Dam



NOTES:
-Looking north at proposed HVDC Corridor Crossing
-Structure & conductor information from POWER Engineers
-Average height of vegetation within the forested buffer is 75'

Photograph / Photosimulation Information

Location	45.458423°, -69.865933
Viewing Direction	Northwest to North
Horizontal Angle of View	68°
Date and Time	05/29/18 at 10:03am
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	0
Approximate Distance to Nearest Structure	620 feet

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EXISTING CONDITIONS 40A: BROOKFIELD OPTION

Rafting Put-In Location on Kennebec River - Indian Stream Township

Existing Conditions: Vertical normal view looking northwest from the rafting launch area on the Kennebec River below Harris Dam.

PHOTOSIMULATION 40B: BROOKFIELD OPTION

Rafting Put-In Location on Kennebec River - Indian Stream Township

Proposed Conditions: Vertical normal view looking northwest from the rafting launch area on the Kennebec River below Harris Dam. Due to the steep terrain and clearing limits of the proposed corridor, the closest structure on the northwest side of the river will be screened from view by existing foreground trees. The closest structure on the southeast side of the river will not be visible. Conductors with marker balls will be visible approximately 180 feet above the river. The required vegetation removal will be minimally noticeable from this location.

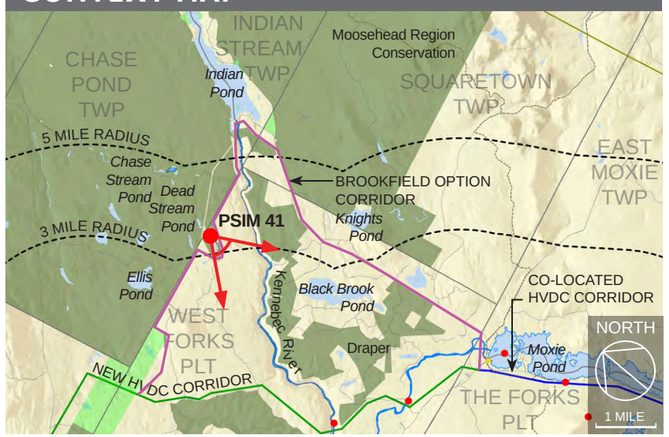
PHOTOSIMULATION 41: BROOKFIELD OPTION - Dead Stream Pond, West Forks Plt

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Panoramic view looking southeast to southwest toward the Brookfield Alternate Route HVDC transmission line from Dead Stream Pond in West Forks Plt. The existing Jackman Tie Line is visible from the pond looking to the north (opposite direction of this view). The top of one HVDC structure would be visible to the southeast at a distance of 1,250 feet from this viewpoint. Portions of shield wires and conductors would be visible to southwest approximately 2,700 feet from this viewpoint.

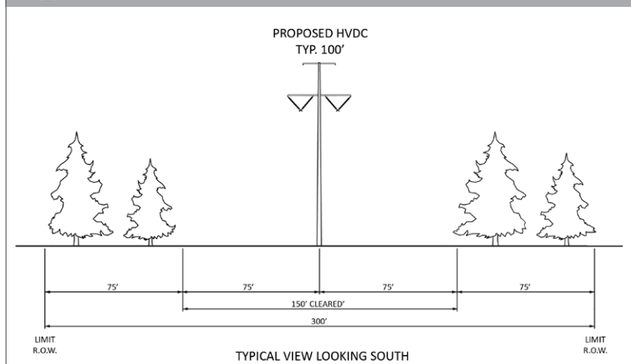
LOCATION MAP

CONTEXT MAP



TECHNICAL INFORMATION

Typical Cross Section



Photograph / Photosimulation Information

Location	45.442243°, -69.913175°
Viewing Direction	Southeast to Southwest
Horizontal Angle of View	87°
Date and Time	05/29/18 at 2:02pm
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	1
Approximate Distance to Nearest Structure	1,250 feet

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EXISTING CONDITIONS 41A: BROOKFIELD OPTION - **Dead Stream Pond,** West Forks Plt

Existing Conditions: Normal view looking southeast from Dead Stream Pond in West Forks Plt. Approximately five camps are located on the southeast shoreline of the pond adjacent to the publicly accessible water put-in location.

PHOTOSIMULATION 41B: BROOKFIELD OPTION - Dead Stream Pond, West Forks Plt

Proposed Conditions: Normal view looking southeast toward the Brookfield Alternate Route HVDC transmission line corridor from Dead Stream Pond in West Forks Plt. The top of one HVDC structure would be visible at a distance of 1,250 feet from this viewpoint.

EXISTING CONDITIONS 41C: BROOKFIELD OPTION - **Dead Stream Pond,** West Forks Plt

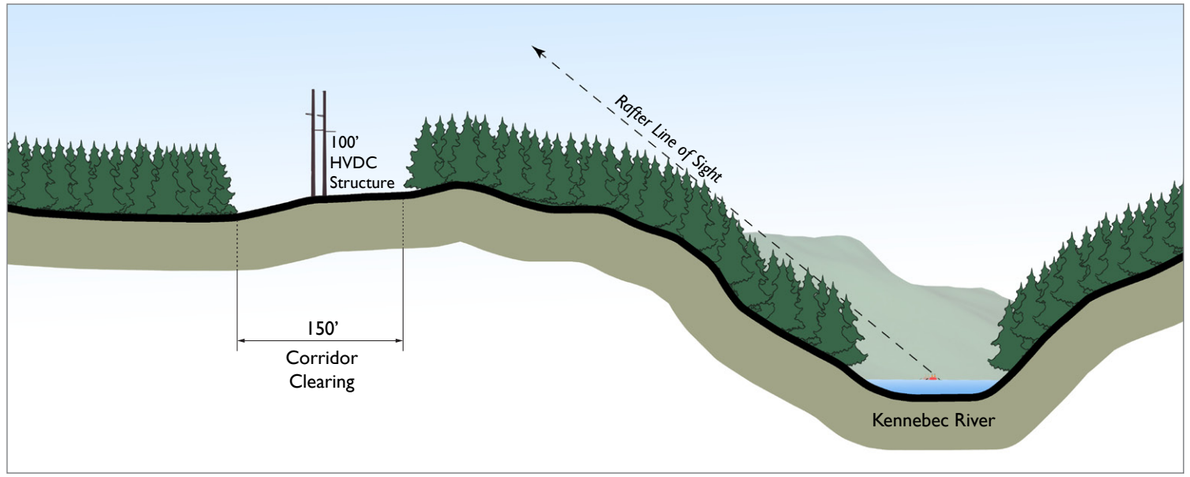
Existing Conditions: Normal view looking southwest from Dead Stream Pond in West Forks Plt.

PHOTOSIMULATION 41D: BROOKFIELD OPTION - Dead Stream Pond, West Forks Plt

Proposed Conditions: Normal view looking southwest toward the Brookfield Alternate Route HVDC transmission line corridor from Dead Stream Pond in West Forks Plt. Portions of shield wires and conductors would be visible approximately 2,700 feet from this viewpoint.

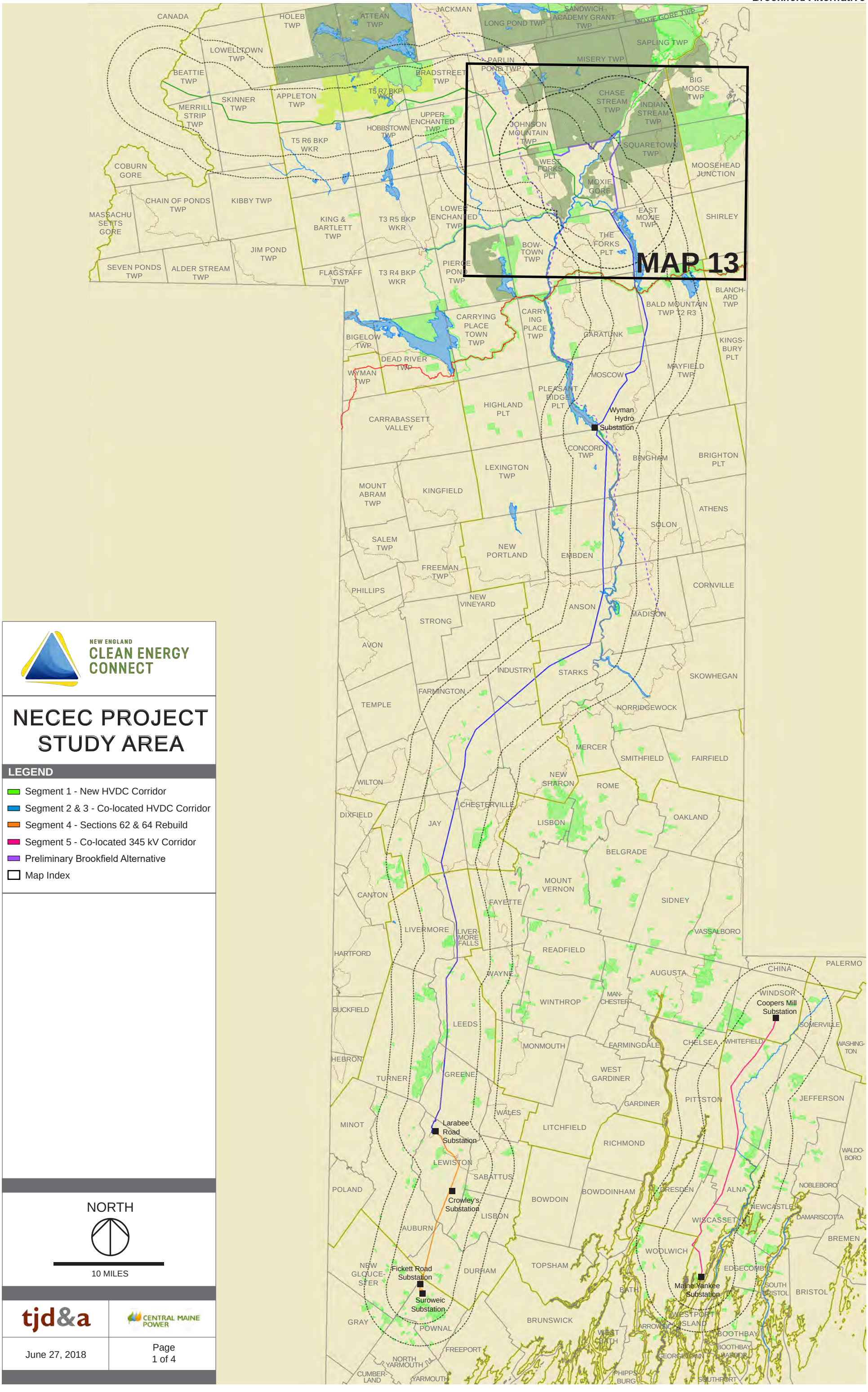
BROOKFIELD OPTION - AERIAL & CROSS SECTION

CROSS SECTION A



June 25, 2018

tjd&a



NEW ENGLAND CLEAN ENERGY CONNECT

NECEC PROJECT STUDY AREA

LEGEND

- Segment 1 - New HVDC Corridor
- Segment 2 & 3 - Co-located HVDC Corridor
- Segment 4 - Sections 62 & 64 Rebuild
- Segment 5 - Co-located 345 kV Corridor
- Preliminary Brookfield Alternative
- Map Index

NORTH

10 MILES

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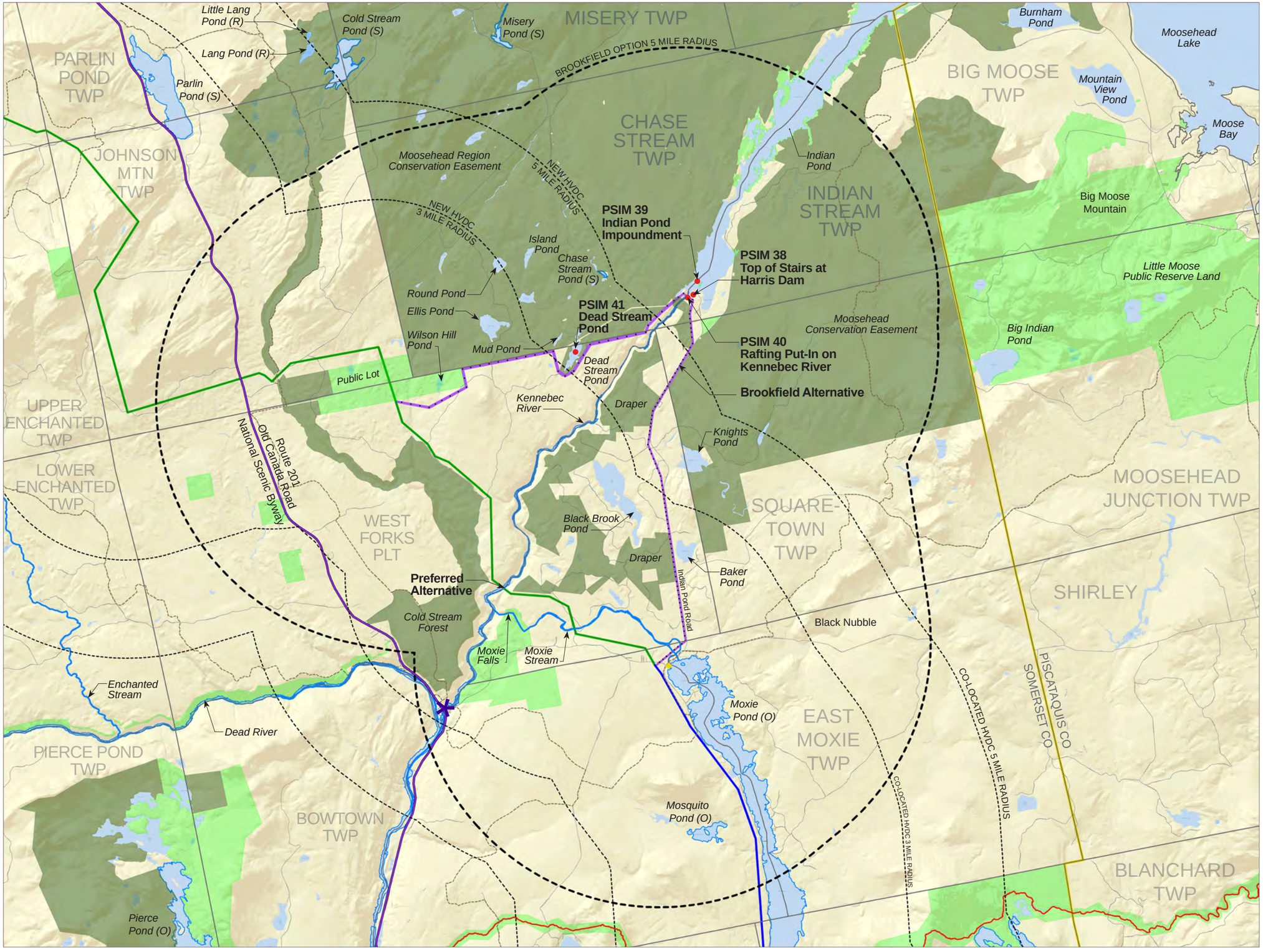
June 27, 2018



NEW ENGLAND CLEAN ENERGY CONNECT

Map 13

Preliminary Study Area Map

LEGEND

- New HVDC Corridor
- Co-located HVDC Corridor
- Preliminary Brookfield Alternative
- Municipal Boundaries
- County Boundaries
- Conservation Lands
- Conservation Lands - Harvesting permitted
- The Nature Conservancy Lands
- Boat Launch
- Structures on National Register of Historic Places
- Structures eligible for National Register of Historic Places
- Appalachian Trail
- ITS - Interconnected Trail System
- Old Canada Road National Scenic Byway
- Scenic Byway Pull-Offs / Overlooks
- Remote Pond (R)
- Great pond (rated as “Outstanding” or “Significant”), scenic rivers and streams
- Photosimulation Location

NOTE

This preliminary viewshed analysis is based on a conceptual layout by TJD&A generated from the potential Brookfield Option corridor provided by Central Maine Power. POWER Engineers provided locations and height of structures immediately adjacent to the Harris Dam crossing only. TJD&A assigned a typical structure height of 100’ and spaced the structures 500 to 1,000 feet apart along the remainder of the proposed center line for purposes of this analysis. The structure base elevations are based on topographic information generated with DEM data from National Mapper.

MAP INDEX

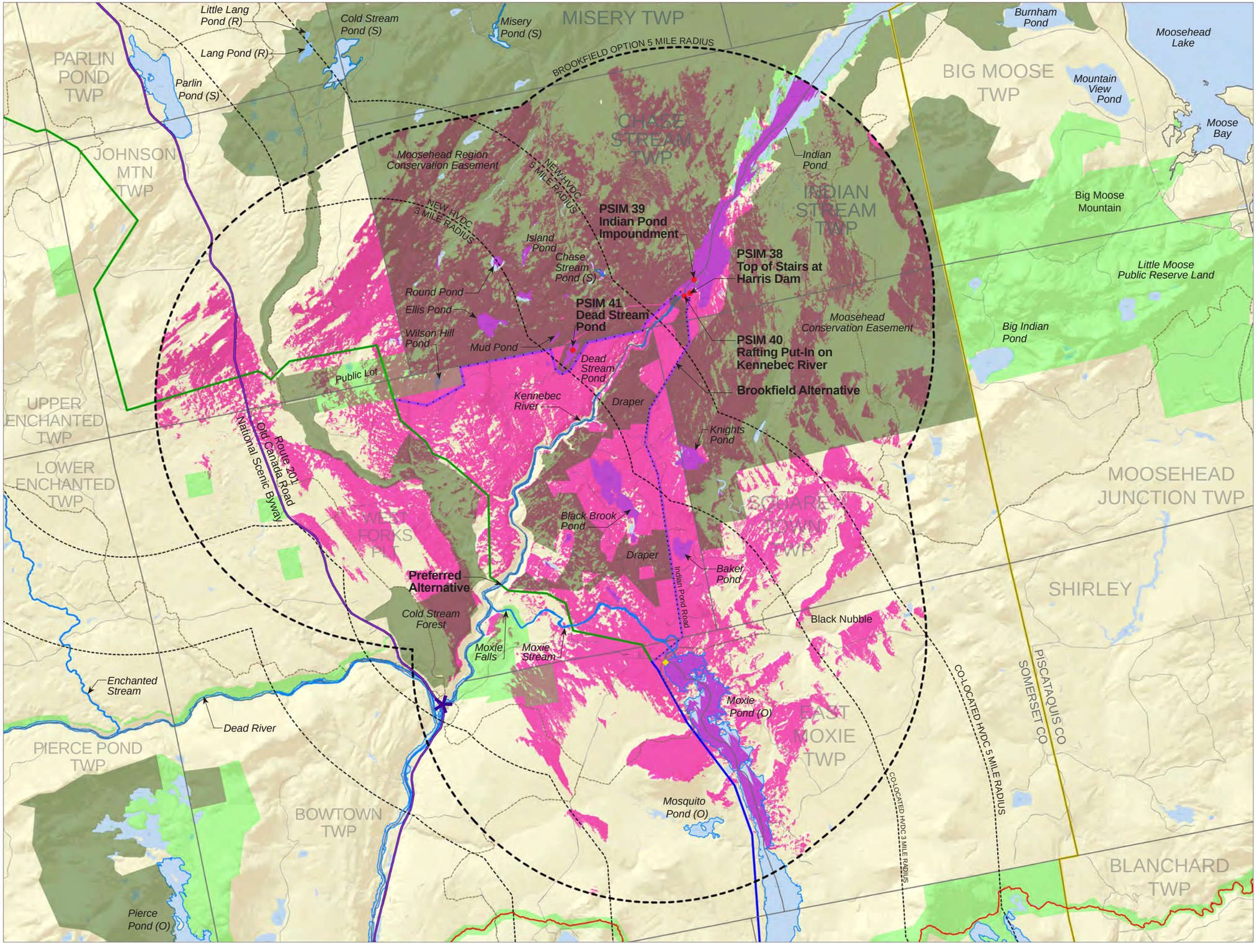
NORTH

1 MILE

tjd&a

CENTRAL MAINE POWER

June 27, 2018



NEW ENGLAND CLEAN ENERGY CONNECT

Map 13

Preliminary Topographic Viewshed

LEGEND

- New HVDC Corridor
- Co-located HVDC Corridor
- Preliminary Brookfield Alternative
- Municipal Boundaries
- County Boundaries
- Conservation Lands
- Conservation Lands - Harvesting permitted
- The Nature Conservancy Lands
- Boat Launch
- Structures on National Register of Historic Places
- Structures eligible for National Register of Historic Places
- Appalachian Trail
- ITS - Interconnected Trail System
- Old Canada Road National Scenic Byway
- Scenic Byway Pull-Offs / Overlooks
- Remote Pond (R)
- Great pond (rated as “Outstanding” or “Significant”), scenic rivers and streams
- Photosimulation Location

VISIBILITY

Area of potential project visibility where any portion of any structure may be visible within 5 miles.

NOTES

This viewshed map accounts for the screening effects of topography only and shows where the viewer may see any portion of a transmission structure.

This preliminary viewshed analysis is based on a conceptual layout by TJD&A generated from the potential Brookfield Option corridor provided by Central Maine Power. POWER Engineers provided locations and height of structures immediately adjacent to the Harris Dam crossing only. TJD&A assigned a typical structure height of 100’ and spaced the structures 500 to 1,000 feet apart along the remainder of the proposed center line for purposes of this analysis. The structure base elevations are based on topographic information generated with DEM data from National Mapper.

MAP INDEX

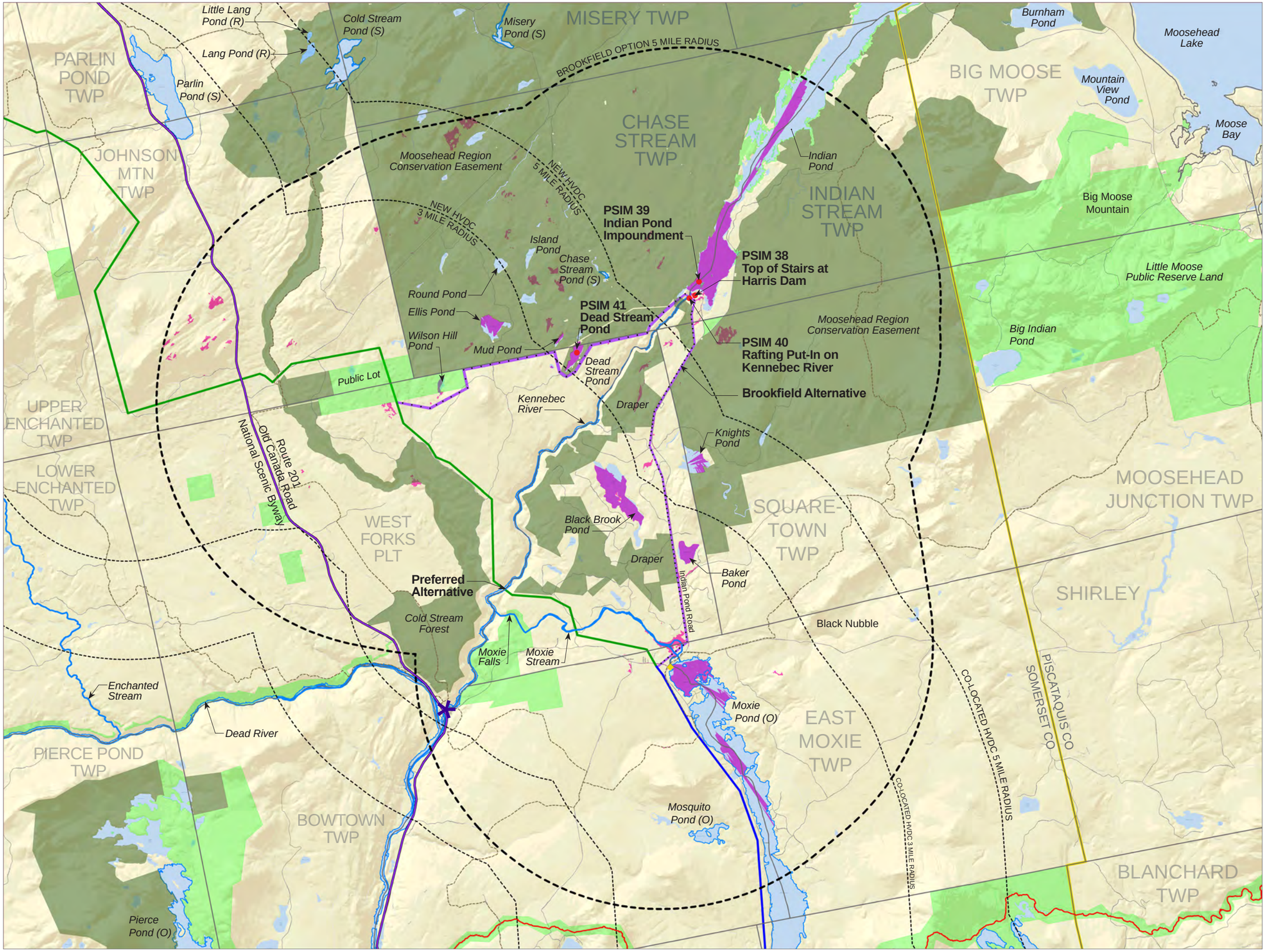
NORTH

1 MILE

tjd&a

CENTRAL MAINE POWER

June 27, 2018



NEW ENGLAND CLEAN ENERGY CONNECT

Map 13

Preliminary Landcover Viewshed

LEGEND

- New HVDC Corridor
- Co-located HVDC Corridor
- Preliminary Brookfield Alternative
- Municipal Boundaries
- County Boundaries
- Conservation Lands
- Conservation Lands - Harvesting permitted
- The Nature Conservancy Lands
- Boat Launch
- Structures on National Register of Historic Places
- Structures eligible for National Register of Historic Places
- Appalachian Trail
- ITS - Interconnected Trail System
- Old Canada Road National Scenic Byway
- Scenic Byway Pull-Offs / Overlooks
- Remote Pond (R)
- Great pond (rated as “Outstanding” or “Significant”), scenic rivers and streams
- Photosimulation Location

VISIBILITY

Area of potential project visibility where any portion of any structure may be visible within 5 miles.

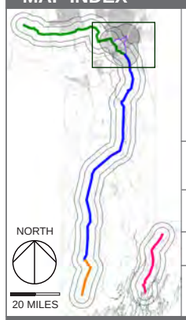
NOTES

This viewshed map:

- Accounts for the screening effects of topography as well as 8 types of existing vegetation. Landcover data from Maine OGIS. The heights for the forest cover types are as follows.
  - Decidious: 40’
  - Evergreen: 40’
  - Mixed: 40’
  - Scrub Shrub: 10’
  - Forested Wetland: 20’
  - Light Partial Cut: 40’
  - Heavy Partial Cut: 40’
  - Forest Regeneration: 20’
- Shows where the viewer may see any portion of a transmission structure.

This preliminary viewshed analysis is based on a conceptual layout by TJD&A generated from the potential Brookfield Option corridor provided by Central Maine Power. POWER Engineers provided locations and height of structures immediately adjacent to the Harris Dam crossing only. TJD&A assigned a typical structure height of 100' and spaced the structures 500 to 1,000 feet apart along the remainder of the proposed center line for purposes of this analysis. The structure base elevations are based on topographic information generated with DEM data from National Mapper.

MAP INDEX



NORTH

1 MILE

tjd&a

CENTRAL MAINE POWER

June 27, 2018

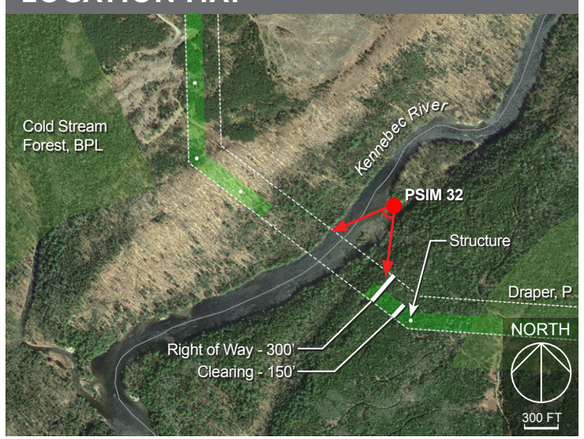
PHOTOSIMULATION 32: KENNEBEC GORGE PICNIC AREA Looking Southwest, 3 Structure Option

NEW ENGLAND CLEAN ENERGY CONNECT

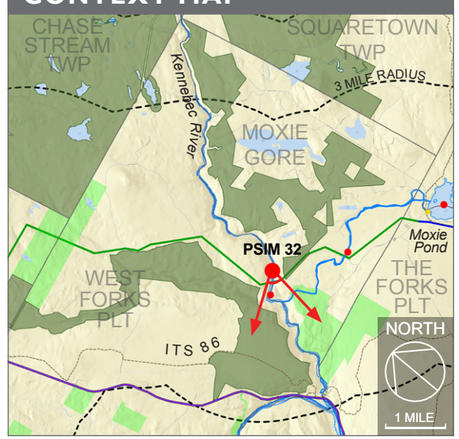
Proposed Conditions: Panoramic view looking from south to southwest from a point 750’ +/- north of the proposed HVDC transmission line crossing of the Kennebec River near a rafting company picnic area. The closest structure, screened by vegetation in this view, is 850’ +/- to the south. Conductors, approximately 200’ above the river, will be visible to recreational boaters for approximately 1,600’ approaching the crossing. Marker balls will be visible on the shield wires and conductors.

Note: The angle of the conductors shown is distorted in this panoramic view due to close proximity of viewer, similar to effect of a fish eye lens. See normal views on pages 2-7.

LOCATION MAP

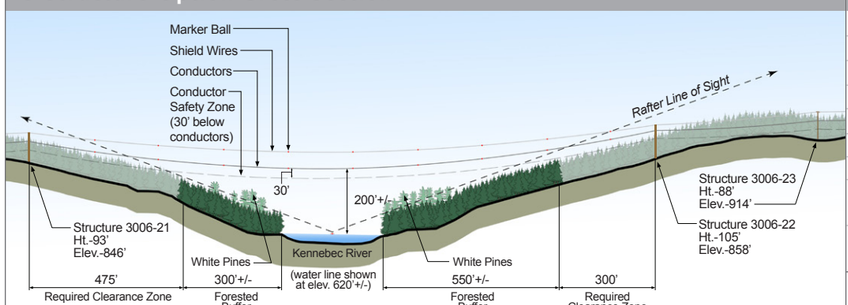


CONTEXT MAP



TECHNICAL INFORMATION

3 Structure Option Cross Section



NOTES:
-Looking south at proposed HVDC Corridor Crossing
-Base information from POWER Engineers
-Average height of vegetation within the forested buffer is 75’ however, sentinel White Pines are shown as 100’ to 125’ in height to more closely represent vegetation observed along the river’s edge.

Photograph / Photosimulation Information

Location	45.374158°, -69.940566°
Viewing Direction	South to Southwest
Horizontal Angle of View	80°
Date and Time	11/09/17 at 12:41 pm
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	0
Approximate Distance to Nearest Structure	850 feet

CENTRAL MAINE POWER

tjd&a

June 21, 2018

EXISTING CONDITIONS 32A: KENNEBEC GORGE PICNIC AREA Looking Southwest, 3 Structure Option

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking south from a picnic area on the Kennebec River.

PHOTOSIMULATION 32B: KENNEBEC GORGE PICNIC AREA Looking Southwest, 3 Structure Option

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking south from a point 750’ +/- north of the proposed HVDC transmission line crossing of the Kennebec River near a picnic area. The closest structure, screened by vegetation in this view, is 850’ +/- to the south. Conductors over the river will be visible to recreational boaters for approximately 1,600’ approaching the crossing.

EXISTING CONDITIONS 32C: KENNEBEC GORGE PICNIC AREA Looking Southwest, 3 Structure Option

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking southwest from a picnic area on the Kennebec River.

PHOTOSIMULATION 32D: KENNEBEC GORGE PICNIC AREA Looking Southwest, 3 Structure Option

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking southwest from a point 750’ +/- north of the proposed HVDC transmission line crossing of the Kennebec River near picnic area. The closest structure, screened by vegetation in this view, is 850’ +/- to the south. Conductors over the river will be visible to recreational boaters for approximately 1,600’ approaching the crossing.

EXISTING CONDITIONS 32E: KENNEBEC GORGE PICNIC AREA Looking Southwest, 3 Structure Option

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking southwest from a picnic area on the Kennebec River.

PHOTOSIMULATION 32F: KENNEBEC GORGE PICNIC AREA Looking Southwest, 3 Structure Option

NEW ENGLAND CLEAN ENERGY CONNECT

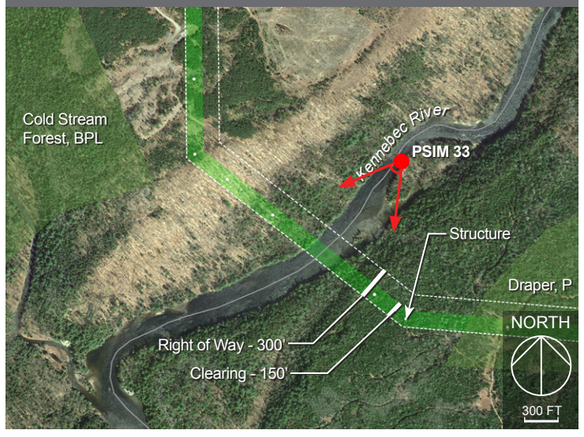
Proposed Conditions: Normal view looking southwest from a point 750’ +/- north of the proposed HVDC transmission line crossing of the Kennebec River near picnic area. The closest structure, screened by vegetation in this view, is 850’ +/- to the south. Conductors over the river will be visible to recreational boaters for approximately 1,600’ approaching the crossing.

PHOTOSIMULATION 33: NORTH OF PICNIC AREA, 3 Structure Option

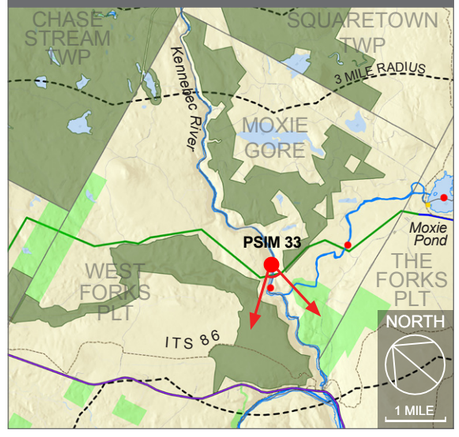
NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Panoramic view looking southwest from a point 1,150’ +/- north of the proposed HVDC transmission line crossing of the Kennebec River, north of a picnic area. The closest structure, screened by vegetation in this view, is 1,250’ +/- to the southwest. Conductors, approximately 200’ above the river, will be visible to recreational boaters for approximately 1,600’ approaching the crossing. Marker balls will be visible on the shield wires and conductors.

LOCATION MAP

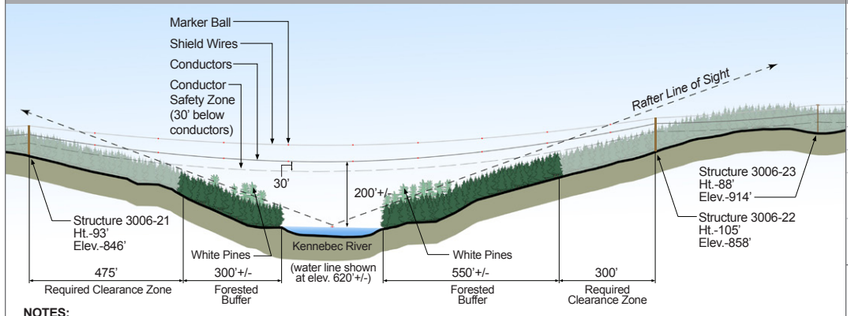


CONTEXT MAP



TECHNICAL INFORMATION

3 Structure Option Cross Section



NOTES:
-Looking south at proposed HVDC Corridor Crossing
-Base information from POWER Engineers
-Average height of vegetation within the forested buffer is 75’ however, sentinel White Pines are shown as 100’ to 125’ in height to more closely represent vegetation observed along the river’s edge.

Photograph / Photosimulation Information

Location	45.375273°, -69.939843°
Viewing Direction	Southwest
Horizontal Angle of View	49°
Date and Time	11/09/17 at 1:40 pm
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	0
Approximate Distance to Nearest Structure	1,250 Feet

CENTRAL MAINE POWER

tjd&a

EXISTING CONDITIONS 33A: NORTH OF PICNIC AREA, 3 Structure Option

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking southwest on the Kennebec River, north of the picnic area.

PHOTOSIMULATION 33B: NORTH OF PICNIC AREA, 3 Structure Option

Proposed Conditions: Normal view looking southwest from a point 1,150’ +/- north of the proposed HVDC transmission line crossing of the Kennebec River, north of the picnic area. The closest structure, screened by vegetation in this view, is 1,250’ +/- to the southwest. Conductors over the river will be visible to recreational boaters for approximately 1,600’ approaching the crossing.

EXISTING CONDITIONS 33C: NORTH OF PICNIC AREA, 3 Structure Option

Existing Conditions: Normal view looking southwest from the Kennebec River, north of the picnic area.

PHOTOSIMULATION 33D: FROM NORTH OF PICNIC AREA, 3 Structure Option

Proposed Conditions: Normal view looking southwest from the Kennebec River toward the proposed HVDC transmission line conductors and marker balls. Structures would be screened from view by vegetation. Conductors over the river will be visible to recreational boaters for approximately 1,600’ approaching the crossing.

PHOTOSIMULATION 13: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

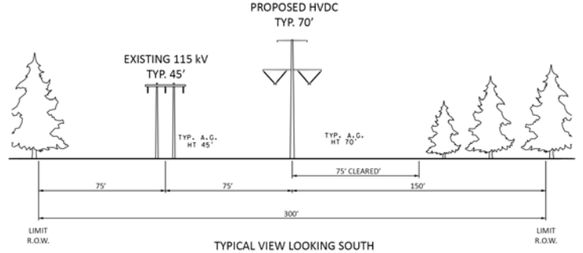
Proposed Conditions: Panoramic view looking southwest to west from the northern end of Moxie Pond toward the proposed co-located HVDC transmission line. The existing 150' wide corridor clearing will be widened by 75' on the western side to accommodate the new transmission line. As a result of the proposed structure height changes in the co-located HVDC transmission line, the tops of three structures and conductors will be visible at distances of 2,400 to 2,800 feet from this viewpoint. Moxie Pond is a designated scenic resource with an 'Outstanding' rating in the Maine Wildlands Lake Assessment. See Appendix B: Study Area Photographs for images.

LOCATION MAP

CONTEXT MAP

TECHNICAL INFORMATION

Typical Cross Section



Photograph / Photosimulation Information

Location	45.347455°, -69.866723°
Viewing Direction	South to West
Horizontal Angle of View	75°
Date and Time	07/25/17 at 10:32 am
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	3
Approximate Distance to Nearest Visible Structure	2,400 feet

CENTRAL MAINE POWER

tjd&a

PHOTOSIMULATION 13A: MOXIE POND - North, East Moxie Twp

Existing Conditions: Normal view looking southwest from the northern area of Moxie Pond toward existing 115 kV transmission line. Mosquito Mountain is visible on the left side of the image.

PHOTOSIMULATION 13A: MOXIE POND - North, East Moxie Twp

Proposed Conditions: Normal view looking southwest from the northern area of Moxie Pond toward the proposed co-located HVDC transmission line. The tops of two structures and conductors will be visible from this viewpoint at distances of 2,500 to 2,800 feet . The existing 150' wide corridor clearing will be widened by 75' on the western side to accommodate the new transmission line.

PHOTOSIMULATION 13A: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking southwest from the northern area of Moxie Pond toward the proposed co-located HVDC transmission line. The tops of two structures and conductors will be visible from this viewpoint at distances of 2,500 to 2,800 feet . The existing 150’ wide corridor clearing will be widened by 75’ on the western side to accommodate the new transmission line.

PHOTOSIMULATION 13B: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking southwest from the northern area of Moxie Pond toward existing 115 kV transmission line.

PHOTOSIMULATION 13B: MOXIE POND - North, East Moxie Twp

Proposed Conditions: Normal view looking southwest from the northern area of Moxie Pond toward the proposed co-located HVDC transmission line. The tops of two structures and conductors will be visible from this viewpoint at distances of 2,400 to 2,500 feet. The existing 150’ wide corridor clearing will be widened by 75’ on the western side to accommodate the new transmission line.

PHOTOSIMULATION 13B: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking southwest from the northern area of Moxie Pond toward the proposed co-located HVDC transmission line. The tops of two structures and conductors will be visible from this viewpoint at distances of 2,400 to 2,500 feet. The existing 150’ wide corridor clearing will be widened by 75’ on the western side to accommodate the new transmission line.

PHOTOSIMULATION 14: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

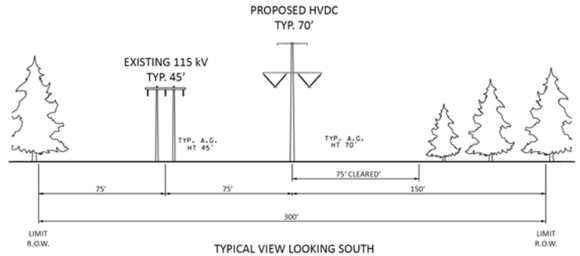
Proposed Conditions: Panoramic view looking west to northwest from the northern end of Moxie Pond toward the proposed co-located HVDC transmission line. The existing 150' wide corridor clearing will be widened by 75' on the western side to accommodate the new transmission line. As a result of the proposed structure height changes in the co-located HVDC transmission line, two structures and conductors will be visible at distances of 2,600 to 3,400 feet from this viewpoint. Moxie Pond is a designated scenic resource with an 'Outstanding' rating in the Maine Wildlands Lake Assessment.
See Appendix B: Study Area Photographs for images.

LOCATION MAP

CONTEXT MAP

TECHNICAL INFORMATION

Typical Cross Section



Photograph / Photosimulation Information

Location	45.347455°, -69.866723°
Viewing Direction	West to Northwest
Horizontal Angle of View	75°
Date and Time	07/25/17 at 10:32 am
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	2
Approximate Distance to Nearest Visible Structure	2,600 feet

CENTRAL MAINE POWER

tjd&a

PHOTOSIMULATION 14A: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking west from the northern area of Moxie Pond. The existing 115 kV transmission line is screened by vegetation.

PHOTOSIMULATION 14A: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking west from the northern area of Moxie Pond toward the proposed co-located HVDC transmission line. One structure and conductors will be visible from this viewpoint at a distance of 2,600 feet. The existing 150’ wide corridor clearing will be widened by 75’ on the western side to accommodate the new transmission line.

PHOTOSIMULATION 14A: MOXIE POND - North, East Moxie Twp

Proposed Conditions: Normal view looking west from the northern area of Moxie Pond toward the proposed co-located HVDC transmission line. One structure and conductors will be visible from this viewpoint at a distance of 2,600 feet. The existing 150’ wide corridor clearing will be widened by 75’ on the western side to accommodate the new transmission line.

PHOTOSIMULATION 14B: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking northwest from the northern area of Moxie Pond toward existing 115 kV transmission line. The boat launch at the north end of Moxie Pond and Coburn Mountain are visible on the right side of the image.

PHOTOSIMULATION 14B: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking southwest from the northern area of Moxie Pond toward the proposed co-located HVDC transmission line. One structure and conductors will be visible from this viewpoint at a distance of 3,400'. The existing 150' wide corridor clearing will be widened by 75' on the western side to accommodate the new transmission line.

PHOTOSIMULATION 14B: MOXIE POND - North, East Moxie Twp

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking southwest from the northern area of Moxie Pond toward the proposed co-located HVDC transmission line. One structure and conductors will be visible from this viewpoint at a distance of 3,400'. The existing 150' wide corridor clearing will be widened by 75' on the western side to accommodate the new transmission line.

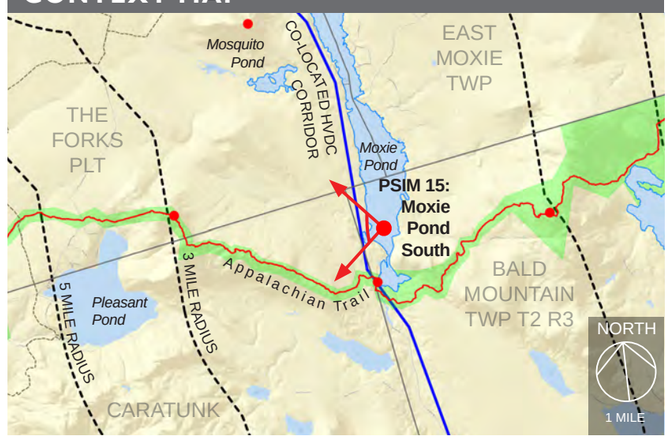
PHOTOSIMULATION 15: MOXIE POND - South, Bald Mountain Twp T2 R3

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Panoramic view looking southwest to northwest from the southern area of Moxie Pond toward the proposed co-located HVDC transmission line. The clearing will be widened by 75' on the western side of the existing 150' wide 115 kV transmission line corridor to accommodate the new transmission line. Portions of the widened corridor will be visible in two areas of the pond where the existing corridor is already visible; at the southern end north of Joes Hole as shown in this image and near Black Narrows. As a result of the proposed height changes in the co-located HVDC transmission line, one structure is visible through a clearing and the tops of two structures will be visible above the tree line from this viewpoint at distances of 2,000 to 2,700 feet. The majority of the structures and conductors will be screened by shoreline vegetation. Moxie Pond is a designated scenic resource with an 'Outstanding' rating in the Maine Wildlands Lake Assessment. See Appendix B: Study Area Photographs for additional images.

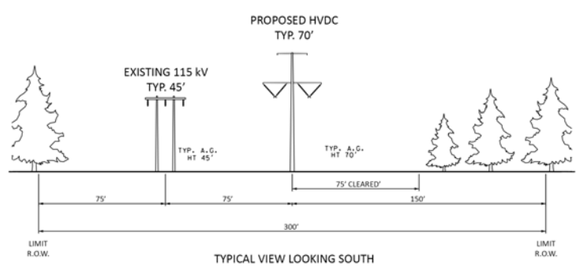
LOCATION MAP

CONTEXT MAP



TECHNICAL INFORMATION

Typical Cross Section



Photograph / Photosimulation Information

Location	45.264145°, -69.826440°
Viewing Direction	Southwest to Northwest
Horizontal Angle of View	82°
Date and Time	07/25/17 at 8:46 am
Camera Focal Length	35 mm
Camera Make/Model	Nikon D5500
Photo Source	TJD&A
Proposed Structures Visible	3
Approximate Distance to Nearest Visible Structure	2000 feet

CENTRAL MAINE POWER

tjd&a

PHOTOSIMULATION 15A: MOXIE POND - South, Bald Mountain Twp T2 R3

Existing Conditions: Normal view looking west from the southern area of Moxie Pond towards the existing 115 kV transmission line.

PHOTOSIMULATION 15A: MOXIE POND - South, Bald Mountain Twp T2 R3

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking west from the southern area of Moxie Pond toward the proposed co-located HVDC transmission line. The clearing will be widened by 75' on the western side of the existing 150' wide 115 kv transmission line corridor to accommodate the new HVDC transmission line. One structure and the top of another structure are visible above the existing transmission line structures and conductors at distances of 2,000 to 2,200 feet.

PHOTOSIMULATION 15A: MOXIE POND - South, Bald Mountain Twp T2 R3

Proposed Conditions: Normal view looking west from the southern area of Moxie Pond toward the proposed co-located HVDC transmission line. The clearing will be widened by 75’ on the western side of the existing 150’ wide 115 kv transmission line corridor to accommodate the new HVDC transmission line. One structure and the top of another structure are visible above the existing transmission line structures and conductors at distances of 2,000 to 2,200 feet.

PHOTOSIMULATION 15B: MOXIE POND - South, Bald Mountain Twp T2 R3

NEW ENGLAND CLEAN ENERGY CONNECT

Existing Conditions: Normal view looking northwest from the southern area of Moxie Pond.

PHOTOSIMULATION 15B: MOXIE POND - South, Bald Mountain Twp T2 R3

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking northwest from the southern area of Moxie Pond toward the proposed co-located transmission line. The change in vegetation due to the widening of the cleared corridor will be slightly less visible looking in this direction. A portion of the top of one structure will be visible at a distance of 2,700 feet, but mostly screened by vegetation.

PHOTOSIMULATION 15B: MOXIE POND - South, Bald Mountain Twp T2 R3

NEW ENGLAND CLEAN ENERGY CONNECT

Proposed Conditions: Normal view looking northwest from the southern area of Moxie Pond toward the proposed co-located transmission line. The change in vegetation due to the widening of the cleared corridor will be slightly less visible looking in this direction. A portion of the top of one structure will be visible at a distance of 2,700 feet, but mostly screened by vegetation.