

Introduction

The Maine Power Reliability Program (MPRP) is a project by Central Maine Power Company (CMP) to upgrade Maine's bulk power transmission system. As described in more detail below, the proposed project consists of a network of 345 kV (kilovolt) and 115 kV transmission lines and associated substations to be constructed throughout CMP's service territory where particular needs have been identified. In Winslow, the existing transmission corridor runs from the Winslow-Albion town boundary in a northwesterly direction toward the Winslow-Benton town boundary (See Exhibit 2 for a Project Overview Map). In Winslow, the MPRP proposes to add a new 345 kV H-Frame line; rename and rebuild portions (only Pole 242, which will become Pole 27) of the existing 115 kV line (Section 67); and remove, replace, and rename the existing 115 kV line, Section 84.

The project described in the following application materials is located in the Town of Winslow's Rural District, as well as within the Shoreland Zone. The project activities within the Rural District as defined in Article 4 § 14-46 of the Winslow Land Use Ordinance ("Ordinance") are classified as essential services, which is considered a principal use and does not require a permit from the Planning Board. Those portions of the project within Shoreland Zoning Districts require approval pursuant to Article 7 of the Ordinance. These application materials are divided into the following parts:

- Part A: Project Overview and Description, beginning on page 1
- Part B: Shoreland Zoning Permit Application, beginning on page 4
- Exhibits: Beginning on page 19

Part A: Project Overview and Description

Maine Power Reliability Program

The MPRP is being proposed to upgrade Maine's bulk power transmission system. A majority of this system was placed into service in the early 1970s and is now reaching the limits of its ability to reliably meet the growing electrical demand of Maine customers. Since the completion of the current system nearly forty years ago, changes in both the patterns of available generation and customer loads have occurred in Maine. For example, the population has become more concentrated in the southern part of the State, while the generation needed to serve that load is more distant and dispersed. When these pattern changes are combined with the increasing peak demand, the current transmission infrastructure in Maine will be inadequate within a few years to meet the needs of Maine customers. In addition, reliability and security standards mandated by law and administered by the North American Electric Reliability Corporation (NERC), the Northeast Power Coordinating Council, Inc. (NPCC), and ISO New England (ISO-NE) have changed significantly in recent years. CMP must upgrade its bulk power transmission system with this proposed project in order to meet the mandatory standards and to provide reliable electric service to Maine customers in the future.

In January of 2007, the MPRP began a comprehensive needs assessment of CMP's bulk power transmission system. The study included a 10-year forecast to evaluate the system in Maine, including a review of system reliability and performance under various system conditions and operating scenarios, as well as a needs assessment to ensure a reliable transmission system in the

most cost-effective manner possible. The study identified a number of significant reliability issues with Maine's bulk transmission system, including insufficient 345 kV transmission capacity, insufficient 115/345 kV transformation capacity, and insufficient transmission support and/or infrastructure in all regions served by CMP. After completing the needs assessment, the MPRP studied potential solutions, including both transmission and non-transmission alternatives, before designating its preferred solution.

CMP ultimately selected a primarily transmission solution (a small geographic area known as the South Portland loop will be addressed through non-transmission alternatives) based on a number of factors, including electrical performance, cost effectiveness, and impacts to landowners and Maine's environment under various forecasts of future conditions. The proposed solution consists of a network of 345 kV and 115 kV transmission lines and associated substations throughout CMP's service territory where particular needs were identified. The proposed transmission solution ranges from Eliot in the south, Rumford in the west, Warren and Searsport in the east, and Orrington and Pittsfield in the north. In all, MPRP will encompass nearly 80 Maine towns, and will require approvals from the Maine Public Utilities Commission, the Maine Department of Environmental Protection, the Army Corps of Engineers, and numerous municipalities. Currently, CMP has received more than half of the required municipal permits, as well as a permit from the Department of Environmental Protection and approval from the Maine Public Utilities Commission.

Project Description in Winslow

The proposed upgrades in Winslow are an important part of the program to improve the reliability, safety, and security of the bulk power transmission system in Maine, while at the same time meeting the increasing demands for electrical power. In Winslow, the MPRP proposes to add a new 345 kV H-frame line in the existing transmission line corridor that traverses the Town from the Winslow-Albion border in a northwesterly direction towards the Winslow-Benton town boundary. Within this corridor, the MPRP also proposes to remove the existing Section 84, 115 kV H-frame transmission line, and rebuild it utilizing single-pole structures. This section will become Section 258 and the existing 115 kV single-pole Section 67 will become Section 257 (and one pole, 242 (257-27) will be replaced and the lines may need to be restrung along this Section). The corridor in this area will need to be widened in order to safely and reliably accommodate the necessary transmission line upgrades (See Exhibit 3 for a Transmission Line Configuration Cross Section).

In summary, the project involves:

- Installing a new 345 kV transmission line, Section 3024. The new Section 3024, 345 kV transmission line will run on H-frame structures on the western side of the corridor that runs through the Town of Winslow from the Winslow-Albion border in a northwesterly direction towards the Winslow-Benton town boundary. These H-frame structures have a typical above ground height of 75 feet¹, not unlike the single-pole structures already found within the corridor.

¹ Please note that pole heights will vary due to topographic constraints and the need to achieve spans that will avoid or minimize impacts to natural resources. While typical aboveground heights have been provided above, some poles may exceed those heights due to terrain differences and the existence of sensitive natural resources. See the attached table (Exhibit 5) for specific information on the heights and types of each proposed pole.

- Remove the existing Section 84, 115 kV transmission line and add a new 115 kV line, utilizing single-pole construction. This new line will become Section 258.
- Maintain most of Section 67; however, it will be renamed Section 257. Additionally, one pole, 242 (257-27) will be replaced. This may require the line to be restrung.
- Widen the corridor in order to accommodate the MPRP proposed upgrades. CMP will need to acquire approximately 50 additional feet on the western side of the corridor.

Additional clearing in some portions of the existing corridor is required, especially in those areas where the corridor is being expanded. Permanent clearing, as explained in more detail later in these application materials, is limited to the selective removal of so-called “capable species” that are capable of reaching unsafe heights within the transmission corridor. CMP will need to acquire additional lands in Winslow. This will involve purchasing approximately 50 feet of land from neighboring property owners. Currently, CMP has options to purchase all needed properties.

PART B: TOWN OF WINSLOW SHORELAND ZONING APPLICATION

DECD/OCP 1/91
 NOTE: THIS SAMPLE PERMIT APPLICATION FORM
 SHOULD BE MODIFIED TO COMPLIMENT YOUR
 LOCAL SHORELAND ZONING ORDINANCE

FOR OFFICE USE ONLY:
PERMIT NO.: _____
ISSUE DATE: _____
FEE AMOUNT: _____

GENERAL INFORMATION

1. APPLICANT Central Maine Power Co. c/o Mary Smith	2. APPLICANTS ADDRESS 83 Edison Drive Augusta, Maine 04336	3. APPLICANTS TEL. # 207-626-4006
4. PROPERTY OWNER Central Maine Power Co.	5. OWNER'S ADDRESS Same as Applicant	6. OWNER'S TEL. # Same as Applicant
7. CONTRACTOR (agent) TRC c/o Deirdre Schneider	8. CONTRACTOR'S (agent) ADDRESS 14 Gabriel Drive Augusta, Maine 04330	9. CONTRACTOR'S (agent) TEL. # 207-620-3851
10. LOCATION/ADDRESS OF PROPERTY Existing transmission corridor running from the Winslow-Albion town boundary in a northwesterly direction towards the Winslow-Benton town boundary (See attached exhibits)	11. TAX MAP/PAGE & LOT# AND DATE LOT WAS CREATED Map 12, Lot 27A Map 12, Lot 28A See Exhibits 6 & 7	12. ZONING DISTRICTS Limited Residential Rural District
13. DESCRIPTION OF PROPERTY INCLUDING A DESCRIPTION OF ALL PROPOSED CONSTRUCTION, (E.G. LAND CLEARING, ROAD BUILDING, SEPTIC SYSTEMS, AND WELLS – PLEASE NOTE THAT A SITE PLAN SKETCH IS REQUIRED ON PAGE 3) The Maine Power Reliability Program (MPRP) is a project by Central Maine Power Company (CMP) to upgrade Maine's bulk power transmission system. In Winslow, the MPRP proposes to add a new 345 kV H-Frame line; rename and rebuild portions (pole 242) of the existing 115 kV line (Section 67); and remove, replace, and rename the existing 115 kV line, Section 84. All work is to occur within or directly adjacent to the existing transmission line corridor. The proposed construction is more fully described in the attached text, drawings and maps.		
14. PROPOSED USE OF PROJECT Essential Services- Electric Power Transmission	15. ESTIMATED COST OF CONSTRUCTION Approximately \$ 6.12 million	

SHORELAND AND PROPERTY INFORMATION					
<p>16. LOT AREA (Sq. ft.) Approximately 57 acres</p>	<p>17. FRONTAGE ON ROAD (FT.) The transmission line corridor crosses three public roadways.</p> <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 50%;">Albion Road</td> <td style="width: 50%;">Approximately 595 ft.</td> </tr> <tr> <td>Heywood Road</td> <td>Approximately 500 ft.</td> </tr> </table>	Albion Road	Approximately 595 ft.	Heywood Road	Approximately 500 ft.
Albion Road	Approximately 595 ft.				
Heywood Road	Approximately 500 ft.				
<p>18. SQ. FT. OF LOT TO BE COVERED BY NON-VEGETATED SURFACES The transmission poles will occupy less than 0.07% of the project area. The remainder will remain vegetated.</p>	<p>19. ELEVATION ABOVE 100 YR. FLOOD The project area is not within any 100-year floodplain areas.</p>				
<p>20. FRONTAGE ON WATERBODY (FT.) See attached maps (Exhibit 4)</p>	<p>21. HEIGHT OF PROPOSED STRUCTURE 345 kV H-frame - range between 75 ft. and 93 ft 115 kV Single-pole - range between 66.5 & 95 ft. (See Pole Table at Exhibit 5)</p>				
<p>22. EXISTING USE OF PROPERTY Electric power transmission</p>	<p>23. PROPOSED USE OF PROPERTY Electric power transmission</p>				
<p><i>Note: Questions 24 & 25 apply only to expansions of portions of existing structures which are less than the required setback.</i></p>					
<p>24. A) TOTAL FLOOR AREA OF PORTION OF STRUCTURE WHICH IS LESS THAN REQUIRED SETBACK AS OF 1/1/89: _____ Not applicable (A-D) SQ.FT.</p> <p>B) FLOOR AREA OF EXPANSION OF PORTION OF STRUCTURE WHICH IS LESS THAN REQUIRED SETBACK FROM 1/1/89 TO PRESENT: _____ Not applicable (A-D) SQ.FT.</p> <p>C) FLOOR AREA OF PROPOSED EXPANSION OF PORTION OF STRUCTURE WHICH IS LESS THAN REQUIRED SETBACK: _____ Not applicable (A-D) SQ.FT.</p> <p>D) % INCREASE OF FLOOR AREA OF ACTUAL AND PROPOSED EXPANSIONS OF PORTION OF STRUCTURE WHICH IS LESS THAN REQUIRED SETBACK SINCE 1/1/89: $(\% \text{ INCREASE} = \frac{B + C}{A} \times 100)$ _____ Not applicable (A-D) % </p>	<p>25. A) TOTAL VOLUME OF PORTION OF STRUCTURE WHICH IS LESS THAN REQUIRED SETBACK AS OF 1/1/89: _____ Not applicable (A-D) CUBIC FT.</p> <p>B) VOLUME OF EXPANSION OF PORTION OF STRUCTURE WHICH IS LESS THAN REQUIRED SETBACK FROM 1/1/89: _____ Not applicable (A-D) CUBIC FT.</p> <p>C) VOLUME OF PROPOSED EXPANSION OF PORTION OF STRUCTURE WHICH IS LESS THAN REQUIRED SETBACK: _____ Not applicable (A-D) CUBIC FT.</p> <p>D) % INCREASE OF VOLUME OF ACTUAL AND PROPOSED EXPANSIONS OF PORTION OF STRUCTURE WHICH IS LESS THAN REQUIRED SETBACK SINCE 1/1/89: $(\% \text{ INCREASE} = \frac{B + C}{A} \times 100)$ _____ Not applicable (A-D) % </p>				
<p><i>Note: It is imperative that each municipality define what constitutes a structure, floor area and volume and apply those definitions uniformly when calculating existing and proposed sq. ft. and cu. Ft.</i></p>					

Front or Rear Elevation

Please see the attached Exhibit for transmission line corridor cross sections showing existing and proposed structures and their typical aboveground heights

Side Elevation

Draw a simple sketch showing the existing and proposed structures and dimensions.

ADDITIONAL PERMITS, APPROVAL, AND/OR REVIEWS REQUIRED

CHECK IF REQUIRED:

- PLANNING BOARD REVIEW APPROVAL (e.g. Subdivision, Site Plan Review)
- BOARD OF APPEALS REVIEW APPROVAL
- FLOOD HAZARD DEVELOPMENT PERMIT
- EXTERIOR PLUMBING PERMIT (approved HHE 200 Application Form)
- INTERIOR PLUMBING PERMIT
- DEP PERMIT (Site Location, Natural resources Protection Act)
- ARMY CORPS OF ENGINEERS PERMIT (e.g. Sec. 404 Clean Waters Act)

OTHERS:

- MAINE PUBLIC UTILITIES COMMISSION – Certificate of Public Convenience and Necessity
- MUNICIPAL PERMITS
- _____
- _____

NOTE: APPLICANT IS ADVISED TO CONSULT WITH THE CODE ENFORCEMENT OFFICER AND APPROPRIATE STATE AND FEDERAL AGENCIES TO DETERMINE WHETHER ADDITIONAL PERMITS, APPROVALS, AND REVIEWS ARE REQUIRED

I CERTIFY THAT ALL INFORMATION GIVEN IN THIS APPLICATION IS ACCURATE. ALL PROPOSED USES SHALL BE IN CONFORMANCE WITH THIS APPLICATION AND THE WINSLOW SHORELAND ZONING ORDINANCE. I AGREE TO FUTURE INSPECTIONS BY THE CODE ENFORCEMENT OFFICER AT REASONABLE HOURS.

APPLICANT'S SIGNATURE

DATE

AGENT'S SIGNATURE (if applicable)

DATE

APPROVAL OR DENIAL OF APPLICATION

_____MAP _____LOT

(For Office Use Only)

THIS APPLICATION IS: _____APPROVED

_____DENIED

IF DENIED, REASON FOR DENIAL:

IF APPROVED, THE FOLLOWING CONDITIONS ARE PRESCRIBED:

NOTE: IN APPROVING A SHORELAND ZONING PERMIT, THE PROPOSED USE SHALL COMPLY WITH THE PURPOSES AND REQUIREMENTS OF THE SHORELAND ZONING ORDINANCE FOR THE TOWN OF WINSLOW.

INSPECTION CHECK LIST	
<input type="checkbox"/>	Prior to Clearing and Excavation
<input type="checkbox"/>	Prior to Foundation Pour
<input type="checkbox"/>	Prior to Final Landscaping
<input type="checkbox"/>	Prior to Occupancy

PERMIT #
FEE AMOUNT

NOTE: THIS CHECKLIST IS INTENDED TO ASSIST THE CEO IN TRACKING A SHORELAND ZONING PERMIT THROUGH THE REVIEW PROCESS

Appendix 1

SHORELAND ZONING PERMIT CHECKLIST

CHECK OFF FOR ALL STRUCTURES:

- COMPLETE SHORELAND ZONING PERMIT APPLICATION
- PAY APPROPRIATE FEE
- LOT AREA
- % OF LOT COVERED BY NON-VEGETATED SURFACES
- HEIGHT OF STRUCTURE
- SETBACK FROM HIGH WATER LINE
- ELEVATION SETBACK FROM SIDE AND REAR LOT LINES
- % INCREASE OF EXPANSIONS OF PORTION OF STRUCTURE WHICH IS LESS THAN REQUIRED SETBACK
- COPY OF INTERIOR AND EXTERIOR PLUMBING PERMITS
- COPY OF DEED
- ELEVATION OF LOWEST FLOOR TO 100 YEAR FLOOD ELEVATION
- COPY OF ADDITIONAL PERMIT(S) AS REQUIRED
(See Page 5 of Application Form)
- SOIL EROSION CONTROL PLAN PROVIDED

CHECK OFF FOR FURTHER REVIEW:

- COPY OF FILE TO BOARD OF APPEALS IF VARIANCE OR SPECIAL EXCEPTION IS REQUIRED
- COPY OF FILE TO PLANNING BOARD IF PLANNING BOARD REVIEW IS REQUIRED

CHECK OFF FOR SITE VISIT BY CEO:

- PRIOR TO CLEARING AND EXCAVATION
- PRIOR TO FOUNDATION POUR
- PRIOR TO FINAL LANDSCAPING
- PRIOR TO OCCUPANCY

Applicable Shoreland Zoning Districts

The proposed project will have very limited impacts within the Shoreland Zone. It will involve the addition of approximately 10 transmission structures in the shoreland zone, passing through two Limited Residential Districts.

- **Limited Residential District – in the vicinity of the Winslow-Albion town boundary**
 - Five new transmission structures associated with the MPRP are proposed in this district (3024-172, 3024-173, 258-33, 258-34 and 258-35). Capable species will be removed from less than 1.5 acres of land within this district.
- **Limited Residential District – See Maps 1 and 2 at Exhibit 4**
 - Five new transmission structures associated with the MPRP are proposed in this district (3024-176, 3024-177, 258-28, 258-29, 258-30). Capable species will be removed from less than approximately 1.85 acres of land within this district.
 - The placement of structures 3024-176, 3024-177, 258-28, and 258-29 will occur within an area designated by the Maine Department of Inland Fisheries and Wildlife as moderate-value waterfowl and wading bird habitat. While, this habitat is 28.8 acres in size it only occurs on approximately 5.3 acres within the transmission corridor in the Town of Winslow. Moreover, only approximately 1.52 acres of habitat conversion (forested to scrub-shrub) will occur within the Town of Winslow.
 - Areas of clearing within this district are also within a Deer Wintering Area (DWA). The Maine Department of Inland Fisheries and Wildlife (MDIF&W) classifies this DWA as being “indeterminate in value,” meaning its value has not yet been evaluated in the field. The deeryard is approximately 1,113 acres in size. The MPRP will not have a significant impact on the DWA within this district because the removal of vegetation will be minimal and limited to capable species. The DWA associated with the transmission line corridor, once clearing is completed will be characterized by scrub-shrub growth, thereby maintaining the current character found within transmission corridors.

Permitted Land Uses

The MPRP meets the definition of “essential services” as defined in Article 8 of the Ordinance. According to Article 7 §14-79 of the Ordinance, essential services projects are permitted in all Shoreland Zoning districts with the approval of the Planning Board. Essential Services projects are also subject to the specific requirements of Article 7 § 14-80(m)(2) of the Ordinance, which is addressed below.

Land Use Standards (From Article 7 § 14-80 of the Shoreland Zoning Ordinance)

a. Minimum Lot Standards

The new structures will be placed within an existing transmission corridor in Winslow. Minimum lot standards are not applicable to the MPRP because the transmission structures

associated with this project are not residential dwelling units, principle structures, nor public/private recreational facilities.

b. Principal and Accessory Structures

Not applicable

c. Piers, Docks, Wharfs, Bridges, and Other Structures and Uses Extending Over or Beyond the Normal High-Water Line of a Water Body or Within a Wetland

Not applicable

d. Campgrounds

Not applicable

e. Individual Private Campsites

Not applicable

f. Commercial and Industrial Uses

Not applicable

g. Parking Areas

Not applicable. There will be no parking areas associated with the MPRP.

h. Roads and Driveways

There will be no new permanent roads or driveways associated with the MPRP. Existing CMP-maintained access points and ways suitable for routine and urgent maintenance by its own vehicles will remain within the corridor. The MPRP will involve only the creation of temporary access ways for the purpose of constructing the new Section 3024 and removing and replacing Section 84 and portions of Section 67.

Temporary access ways, which do not meet the definitions of roads or driveways pursuant to Article 8 § 14-83 of the Town's ordinances, will not add any impervious surface area, will be established only for use during the construction phase (see Exhibit 4), and will be in place for no more than 18 months. Access to pole site for either removal or construction, will also be achieved through the use of these temporary access ways. In Winslow, all access ways will be constructed solely for project access and will be restored to original grade upon project completion. All areas that are disturbed by the construction of the temporary access ways will be stabilized, including the access way's ditches, travel way, and slopes, back to vegetated conditions. The establishment of these temporary access ways will be an ongoing process as access will be established to areas undergoing immediate construction. Determinations surrounding the exact nature of the construction of these temporary access ways will be made by the contractor in consultation with an environmental representative.

Measures will be taken to avoid and minimize impacts to streams and wetlands through the use of crane mats, temporary bridges, geo-textile fabrics, and culverts, when necessary. Appropriate erosion controls will be installed wherever needed. If necessary, mats will be placed parallel to the upland edge as abutments to establish and further protect bank stability. No extensive grubbing (grading to remove root systems) within wetland crossing areas will be done prior to mat placement. However, some minor grading may be required to ensure mat stability and construction access safety. Streams that are too wide to cross with crane mats or temporary bridges will be avoided.

i. Signs

Not applicable. There will be no permanent signage associated with the MPRP in Winslow.

j. Storm Water Runoff

With the exception of the immediate area occupied by the support poles, there is no increase in impervious surface area associated with the transmission line; therefore, there will be no significant storm water run-off generated from the project. All new construction will be designed to minimize storm water runoff from the site in excess of the natural predevelopment conditions. See also Section Q and Section R beginning on page 14.

k. Septic Waste Disposal

There will be no wastewater generated from the project site; therefore, the requirements of this section are no applicable.

l. Holding Tank Ordinance

Not applicable

m. Essential Services

(1) Where feasible, the installation of essential services shall be limited to existing public ways and existing service corridors.

Within the Town of Winslow, the construction of the new 345 kV transmission line and the removal and reconstruction of the 115 kV line will occur entirely within or adjacent to the existing transmission line corridor. Some additional clearing of capable species within and adjacent to the existing corridor will be required.

A guiding principle on the design of the MPRP transmission line upgrades has been to utilize the existing transmission line corridors to the maximum extent possible. Only where existing corridors cannot accommodate the proposed upgrades while meeting safety and reliability standards is CMP seeking to widen the existing corridor. Creating an entirely new corridor is a last resort. As a result, a vast majority of the transmission line upgrades proposed as part of the

MPRP are located within or immediately adjacent to existing corridors. Co-location of the transmission line upgrades, as opposed to the creation of new corridors, has multiple benefits, including the minimization of impacts to communities, individual property owners, and the environment. In Winslow, additional lands will need to be acquired in order to expand the corridor. The expansion of the corridor in this area is necessary in order to safely and reliably configure the placement of the new structures proposed for this project.

(2) The installation of essential services other than roadside distribution lines is not permitted in a Resource Protection or Stream Protection District, except to provide services to a permitted use within said district, or except where the applicant demonstrated that no reasonable alternative exists. Where allowed, such structures and facilities shall be located so as to minimize any adverse impacts on surrounding uses and resources, including visual impacts.

The corridor along which the new transmission line will run does not cross any Stream Protection Districts or Resource Protection Districts.

n. Mineral Exploration and Extraction

Not applicable

o. Agriculture

Not applicable

p. Timber Harvesting

Not applicable. Clearing of vegetation will be limited to that which is necessary to construct the permitted project, as explained below.

q. Clearing of Vegetation for Development

Some clearing of vegetation will be required within the existing service corridor to accommodate the project and ensure that the project meets federal reliability and safety standards. The amount of clearing in all Shoreland Zoning Districts will be limited to that which is necessary for development of the project, and is generally limited to removal of species that are capable of growing tall enough to interfere with the transmission lines (so-called "capable species"). Non-capable species are allowed to remain to ensure that the corridor is vegetated, which prevents erosion and provides wildlife habitat. Grubbing (*i.e.*, stump removal) will be limited.

Equipment typical of logging operations, such as cable and hook skidders, forwarders, tree movers, chain saws and logging trucks may be utilized to remove vegetation. In general, all trees, saplings of capable species, and sometimes tall shrubs are cut at ground level. The majority of root systems are left intact, as grubbing is limited to that which is necessary to ensure safe equipment operation. All slash (such as limbs, tree trunks, wood chips, etc.) from the cutting operation is disposed of in accordance with the Maine Slash Law (12 M.R.S.A. §

9333). The vegetation that remains is typically a scattered growth of small shrubs and herbaceous plants. Initially, the condition of these newly cleared areas resembles that of a high quality forestry operation. While very little height structure to the vegetation remains, great care is taken to prevent rutting and erosion. (See also Exhibit 8)

After construction is completed, non-capable species are allowed to grow to ensure that the corridor is vegetated to the greatest extent allowable, which helps prevent erosion and provides wildlife habitat. Over a relatively short period of time (generally within one year), the newly cleared portions of the corridors will exhibit the early-successional habitat type that is typical of existing transmission line corridors in Maine.

See attached maps (Exhibit 4), and the sections related to specific Shoreland Zone Districts, starting on page 10, for more detailed information.

r. Erosion and Sedimentation Control

With the exception of the immediate area surrounding the base of the support poles, there will be no increase in the impervious surface area associated with the transmission line. The amount of ground disturbance associated with this project will be limited to the immediate vicinity of the pole placements and the impacts associated with temporary access roads. CMP has developed a standard manual, “Environmental Guidelines for Construction and Maintenance Activities on Transmission Line and Substation Projects” (2010), which it uses as a routine part of all transmission and substation projects. (A copy of this manual is attached as Exhibit 8). This manual contains erosion and sedimentation control requirements, standards, and methods that will be used to protect soil and water resources during construction of the various MPRP components. The manual was developed in consultation with the Maine Department of Environmental Protection (DEP) and is largely based on DEP’s *Maine Erosion and Sediment Control BMP’s*, dated March 2003, and DEP’s Chapter 500, and contains specific Best Management Practices appropriate for electric transmission line and substation construction. These guidelines will be followed in the construction of transmission lines.

s. Soils

Based on the applicants’ analysis of the Soil Survey Geographic Database compiled by the United States Department of Agriculture, Natural Resources Conservation Services, soils within the transmission line corridor will accommodate the proposed MPRP construction activities. Soil constraints with the transmission line corridor will be managed and mitigated through implementation of erosion and sediment control measures, proper site and project design, and special construction procedures. If concrete foundations for specific poles should be constructed, soil borings will be conducted and the foundation will be designed in accordance with soil characteristics.

t. Water quality

The proposed project will not pose a threat to water quality or impair the water classification of any water body. To protect ground water quality, CMP will implement guidelines that aim to minimize any spill potential associated with construction activities or the application of herbicides (See Exhibit 9 for CMP's Environmental Control Guidelines for Contractors and Subcontractors). To minimize spill potential during construction, no fuel storage, parking and maintenance of vehicles and equipment; or refueling activities may take place within 100 feet of a protected wetland or other waterbody, within 200 feet of a private water supply, or within 400 feet of a public water supply.

After construction, the electrical transmission line corridor is maintained to encourage the growth of scrub-shrub vegetation. CMP uses a selective herbicide program to treat an area once every four years to maintain an early successional stage of growth. Herbicide is selectively applied (using a low-pressure backpack applicator and nozzles to minimize drift) to capable species to prevent growth (or re-growth of a cut plant) of individual plants. In sensitive resource areas, CMP uses only products with low potential for mobility and low persistence in the environment. CMP does not use herbicides within 25 feet of any waterbody, wetland with standing water, significant vernal pool depressions, or certain other sensitive resource areas. In addition, CMP does not use herbicide within 100 feet of springs and known private wells and intakes, or within 200 feet from public water supply wells and intakes. No herbicides are stored, mixed, or loaded within 100 feet of any wetland or surface water. Crew forepersons are certified by the Maine Pesticide Control Board, and all herbicides are EPA registered and DEP approved. The selective use of herbicides within the transmission line corridor does not pose a threat to groundwater quality. For more information, see the Vegetation Management Plan for the MPRP at Exhibit 10. The selective use of herbicides within the transmission line corridor does not pose a threat to water quality. Construction and maintenance of MPRP transmission lines will not require the use of groundwater; therefore, there will be no impact to groundwater quantity.

u. Archaeological Sites

During the past several years, CMP has engaged in extensive consultation with the Maine Historic Preservation Commission (MHPC) regarding the investigation of precontact archeological, postcontact archeological, and historic architectural resources within the MPRP area of potential effect (APE) that are listed on or eligible for listing on the National Register of Historic Places (NRHP). During the period 2008-2009, CMP's consultants conducted reconnaissance level precontact and postcontact cultural resource surveys to identify resources that might be impacted by project related activities within the MPRP APE. After consultation with the MHPC regarding the results of the reconnaissance level surveys, CMP conducted more intensive level surveys to determine site significance (eligibility for listing in the National Register of Historic Places) on a number of potentially eligible archaeological sites within the APE. Similarly, during the period 2008-2009, CMP's consultants conducted architectural surveys in accordance with MHPC guidelines to identify any potential historic above-ground structures that are listed on or eligible for listing on the NRHP that are located within the APE and to determine any adverse impacts on those properties from MPRP.

As a result of these surveys, the MHPC determined that MPRP would not have an adverse effect on any precontact or postcontact archaeological sites that are listed on or eligible for

listing on the NRHP in Winslow. The MHPC also determined that MPRP would not have an adverse effect on any historic architectural structures in Winslow that are listed on or eligible for listing on the NRHP

Approval Standards (From Section 14-81(d) of the Shoreland Zoning Ordinance)

The proposed use will:

1. Maintain safe and healthful conditions.

The proposed project will maintain the same safe and healthful conditions that are already present in the transmission line corridor. The transmission line corridor and the poles within it are maintained to established industry standards so as to ensure the safety of utility workers and the general public. Maintaining sufficient clearances around the conductors is paramount to the safe operation of the line. These clearances are achieved through appropriate siting of the poles themselves and through vegetation maintenance practices as described above. All construction will be in accordance with CMP's transmission standards, general industry standards, and "Good Utility Practice," including all necessary liveline working clearances, strength factors, and reliability factors as governed by the National Electrical Safety Code (NESC). In all instances, the line will be designed to meet or exceed the NESC and other standards, as applicable. The transmission line and all facilities will be operated in full compliance with CMP safety standards, which fully comply with Federal Occupational Safety & Health Administration requirements.

2. Not result in water pollution, erosion, or sedimentation to surface waters.

As described above with respect to Ordinance Sections 14-80 (j), (r) and (t), the MPRP will not result in water pollution, erosion, or sedimentation to surface waters.

3. Adequately provide for the disposal of all wastewater.

There will be no wastewater disposal required for this project; therefore, this standard is not applicable.

4. Not have an adverse impact on spawning grounds, fish, aquatic life, bird, or other wildlife habitat.

Impacts to spawning grounds, fish, aquatic life, or other wildlife habitat will be largely avoided through the use of the existing service corridor, which has been in place for several decades. In general, given the existing landscape characteristics of the site, construction and maintenance of the project is expected to result in conditions that are already common to the project area. It is fully anticipated that local wildlife populations will adapt and respond to any additional alterations much as they already do to ongoing land uses within the vicinity of the proposed project. Therefore, impacts to wildlife are expected to be minimal to non-existent.

Identified significant wildlife habitats and natural areas, such as vernal pools and rare plant locations, have been avoided and minimized to the extent practicable through careful siting and placement of poles.

In deer wintering areas (DWA), where clearing is required, the percentage of habitat removed will not be significant. Transmission poles will be located within wetlands only when

avoidance would cause a greater impact (such as taller structures impacting visual and aesthetic values, or the creation of a new corridor). Once installed the transmission line poles, due to the minimal amount of ground surface area they occupy, will have no significant impact on these critical natural areas.

Significant wildlife habitats and natural areas will be avoided to the greatest extent practicable during construction, including measures that are taken to ensure any impacts will be minimal and temporary. This includes the Waterfowl and Wading Bird Habitat area as designated by the MDIFW located by the Limited Residential District referenced on page 11 above. This area as seen on Maps 1 and 2 of Exhibit 4 is rated as moderate-value habitat for inland waterfowl and wading birds. In the area designated as habitat there will be minimal clearing of vegetation. All access ways will be temporary. Thus, this standard has been met. See attached maps, (Exhibit 4), and the sections related to specific Shoreland Zone Districts, beginning on Page 10, for more detailed information.

5. Conserve shore cover and visual, as well as actual, points of access to inland waters.

The proposed project will take place entirely within the existing corridor, and since the corridor already contains poles of a similar nature, the proposed project will not significantly affect visual points of access to inland waters, and will have no impact on actual points of access to inland waters. The corridor will continue to be maintained in a vegetated state with non-capable species, thereby preserving a similar degree of shore cover, which currently exists.

6. Protect archaeological and historic resources as designated in the comprehensive plan.

The MPRP does not pose a threat to archaeological and historic resources as designated in the comprehensive plan.

7. Will avoid problems associated with flood plain development and use.

As depicted in the attached maps, none of the proposed transmission poles are planned to be within the 100-year floodplain. Since the program will not affect runoff/infiltration relationships and no structures are within the floodplain, the project will avoid problems associated with floodplain development and use.

8. Be in conformance with the provisions of Section 14-80, Land Use Standards.

As discussed above with respect to Ordinance Sections 14-80(a) through (u), this project complies with all of the provisions Section 14-80 of the Ordinance.

Exhibit 1

State Corporate Registration

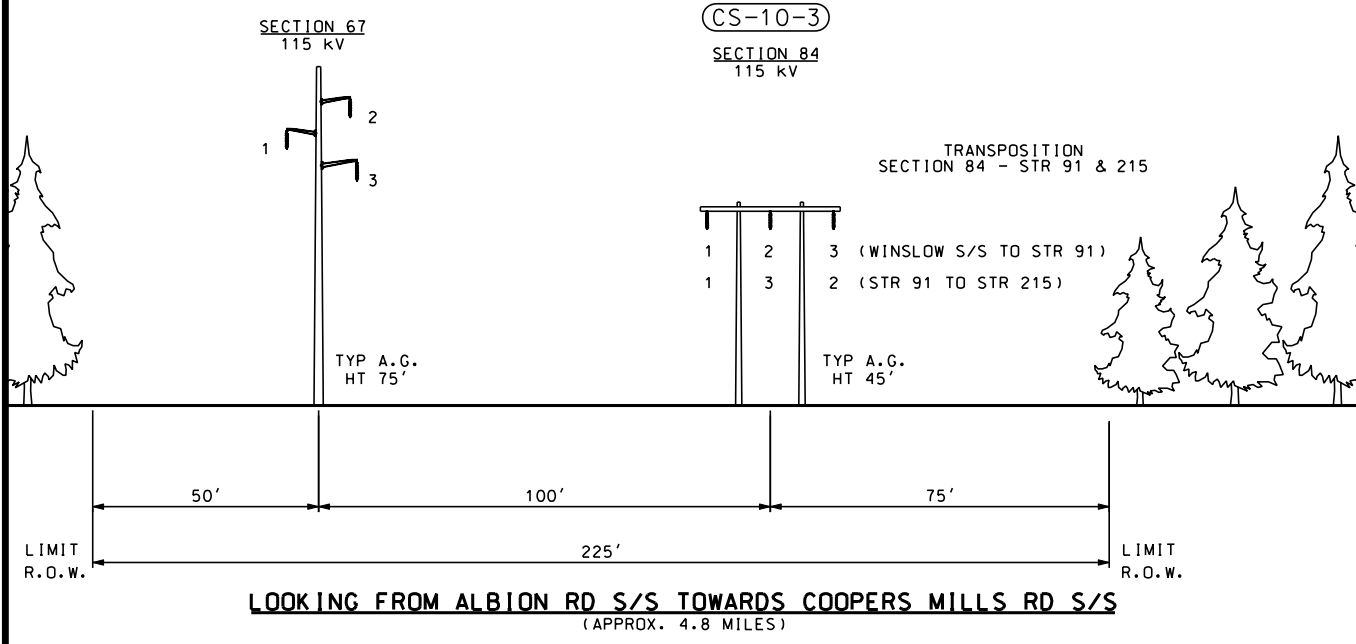
Exhibit 2

Project Overview Map

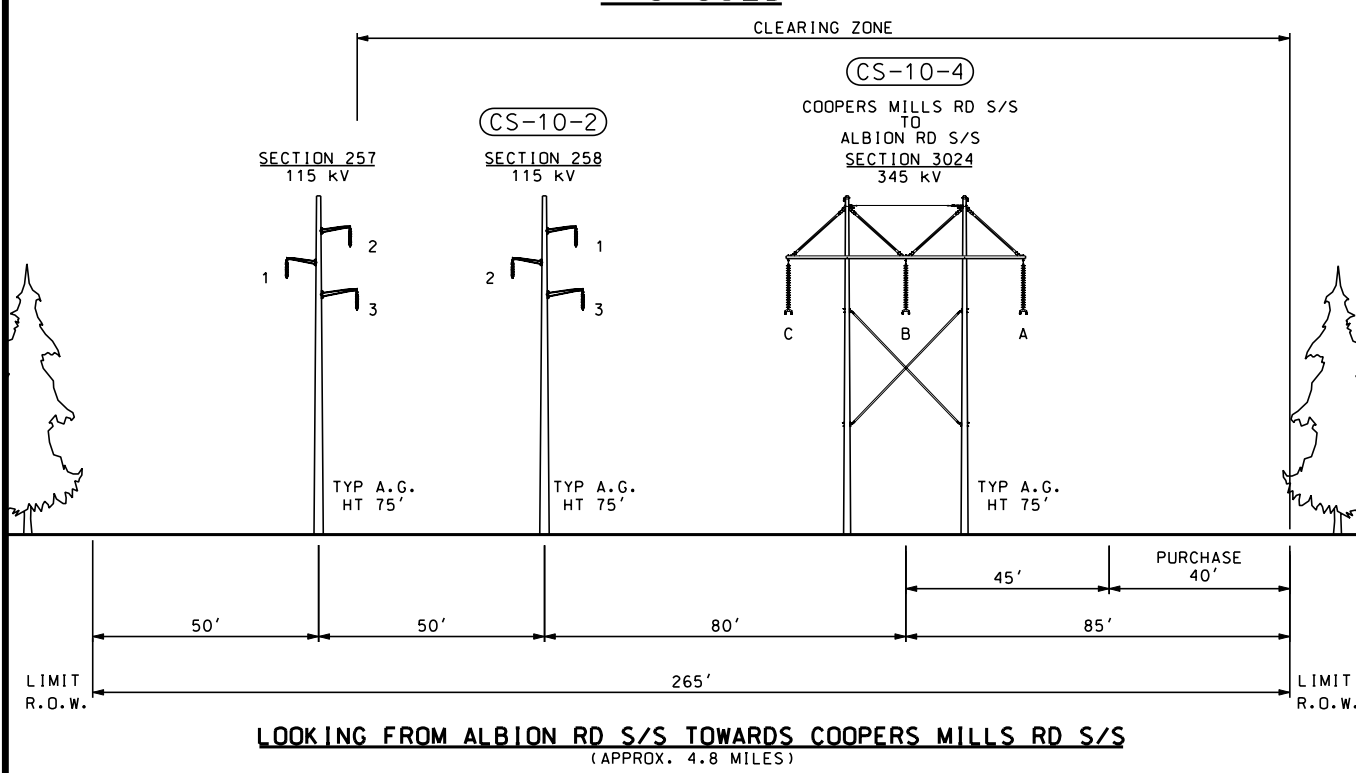
Exhibit 3

Transmission Line Configuration Cross Sections

EXISTING



PROPOSED



THIS DRAWING SHALL BE REVISED ON THE CADD SYSTEM ONLY

-DRAFT- FOR REVIEW ONLY SECTION 67 POLE 223.8 TO 268 STA. 1018+30=1027+40 TO 1280+10

MAINE POWER RELIABILITY PROGRAM

EXISTING AND PROPOSED R.O.W.
ALTERNATIVE N5 FOR N-1-1 ANALYSIS

ENG. CONTRACTOR			
F	REVISED STATIONING/ ADDED CLEARING ZONE	9/23/09	PEI
E	ADDED SEQUENCING/PHASING	8/7/09	PEI
D	REVISED STRUCTURES	2/05/09	PEI
C	REVISED LENGTH/ADDED SECTION NO.	4/11/08	PEI
B	REVISED LENGTH	2/19/08	PEI
A	ISSUED FOR REVIEW	8/27/07	PEI

CHECKED		DESIGNED KJF	DATE 8/8/07
SGW	8/4/09	DRAWN SAT	APPR.
CENTRAL MAINE POWER CO.			
TRANSMISSION ENGINEERING			

SEGMENT 10

SHEET N5-10-2A

NO.	REVISION	DATE	BY

SCALE NTS

Exhibit 4

Project Scope and Natural Resources Maps

Exhibit 5

Pole Heights and Types Table

Exhibit 6

Town of Winslow, Tax Maps

Exhibit 7

Table of Deeds

Showing Proof of Right, Title or Interest

Exhibit 9

**CMP's "Environmental Control Requirements for
Contractors and Subcontractors of Central Maine
Power Company – Oil and Hazardous Material**

Exhibit 10

Vegetation Management Plan