



ELECTRONICALLY FILED April 1, 2013

Faith Huntington
Director of Electricity and Natural Gas Utilities
Maine Public Utilities Commission
State House Station 18
Augusta, Maine 04333-0018

Re: Maine Public Service Chapter 330, §8(A), Annual Filing of Schedule of
Transmission Line Rebuilding or Relocation Projects

Dear Ms. Huntington:

Pursuant to Chapter 330 of the Rules of the Maine Public Utilities commission, Maine Public Service Company submits its schedule of transmission line rebuilding, relocation and construction projects for the next five years.

Please feel free to contact Kendra Overlock at (207)973-2895 or me at (207) 973 2898 should you have any questions regarding this filing.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brad A. Borman".

Brad A. Borman
Senior Regulatory Attorney

BAB:sm
Enclosure

Summary of Proposed Potential Transmission Line Projects -- MPS

Line Identification	<u>Line 6930 Rebuild Phase I</u>	<u>Line 6930 Rebuild Phase II</u>
Project Type	Rebuild	Rebuild/Rerate
Reason for Need	Age and condition, difficult access.	Rebuild existing line due to age and condition.
Location	Caribou	Caribou to Mayesville (P.I.)
Length	Approximately 5.3 miles	Approximately 5.3 miles
Year Originally Constructed	1955	1955
Voltage Level	69 KV	69 KV
Existing Conductor	477 ACSR	477 ACSR
New Conductor	No Change	No Change.
Existing Structure Material and Design	Single pole wood arm.	Single pole wood arm
Peak Load	Approx 30 MVA	Approx. 30 MVA
Estimated Cost (millions, fully burdened)	Approx. \$2.2	TBD
Most likely Potential Alternative	New 138 kV line to Ashland, or an RMR with ReEnergy Ashland.	New 138 kV line to Ashland, or an RMR with ReEnergy Ashland.
Generators Impacted & Description of Impact	N/A: No generators (ReEnergy Ashland is retired)	N/A: No generators (ReEnergy Ashland is retired)

Summary of Proposed Potential Transmission Line Projects -- MPS

<u>6901*</u>	<u>Rebuild 3470 circuit</u>
Rebuild/Rerate	Rebuild
Age and condition, sag limited for thermal ratings, major limiting factor for N-1 planning contingencies.	Pole line age and condition - Bad arms, offset from road centerline.
Structure 22 to Canadian border.	Route 11 Masardis
Approximately 8.8 Miles	Approximately 1.8 miles
1964	1980 - Poles
69 KV (constructed with 138 kV spacing, but insulated for 69 kV.	34.5 kV
336.4 ACSR Linnet	1/0 ACSR Raven
795 ACSR Drake	To be determined
Wood pole H-Frame	Single pole wood arm
Approx. 40 MVA	7MW
TBD	TBD
New 138 kV line to NBP, a hybrid 69/138 kV solution, or an RMR with ReEnergy Fort Fairfield.	N/A
Impacts all Generators with export. May increase thermal limits on 6901, but there are other still limiting factors.	Impacts Squapan Hydro. Minimal only a 1.5 MVA unit, and thermal upgrades are not significant.
<p>* As referenced in MPUC Docket # 2012-00589, MPS is working to understand current and future reliability issues and evaluate possible long-term solutions. Projects marked with an asterisk in this report may be impacted, depending on the outcome of that process.</p>	

Summary of Proposed Potential Transmission Line Projects -- MPS

<u>6908*</u>	<u>6910*</u>
Rebuild/Rerate	Rebuild/Rerate
Age and condition, sag limited for thermal ratings.	Age and condition, sag limited for thermal ratings, limiting factor for N-1 planning contingencies.
From New Sweden north to Fish River sub.	Bridgewater to Mullen Sub.
10.4, 10.4 and 10.4 Miles (three year project)	9.2 and 10.1 Miles (two year project)
1950	1952
69 KV	69 KV (constructed with 138 kV spacing, but insulated for 69 kV.
2/0 F Copperweld	2/0 F Copperweld
336.4 ACSR	477 ACSR
Wood pole H-Frame	Wood pole H-Frame
Approx. 10MVA	Approx. 28 MVA
TBD	TBD
Upgrade to 138 kV.	New 138 kV line Flo's Inn to Mullen or possible tie to New England.
N/A: No Generators	Impacts Queue Position 10. May reduce number of hours of generator operational limits to avoid thermal load limits on 6910.
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Summary of Proposed Potential Transmission Line Projects -- MPS

<u>6920*</u>	<u>T2 Flo's Inn</u>
Rebuild/Rerate	Addition/Upgrade Reliability
Structure age and condition.	Provide a spare autotransformer for the main tie line to NBP. Single N-1 on transformer without hot spare - regulatory and shareholder liability issues.
Mars hill Switching to Bridgewater	Flo's Inn 138 kV sub.
Approx 8 miles	N/A
1965	1979
69 KV (constucted with 138 kV spacing, but insulated for 69 kV.	138 and 69 kV
336.4 ACSR Linnet	(1)- 138-69 kV autotransformer, (1) tie to MPS 69 kV bus.
477 ACSR	(1)- 138-69 kV autotransformer, with 1 spare, (1) tie to MPS 69 kV bus.
Wood Pole H-Frame	Steel / Wood
Approx. 35 MVA	Approx. 90 MVA
TBD	Approx. \$5m
New 138 kV line Flo's Inn to Mullen or possible tie to New England.	Additional Transformation and 138kV lines to NBP at Mars Hill SS or tie to New England.
Doesnot impact generators since other elements are still limiting factors.	Does not impact generators since 6901 and Tinker transformer are still the limiting elements.
<p>* As referenced in MPUC Docket # 2012-00589, MPS is working to understand current and future reliability issues and evaluate possible long-term solutions. Projects marked with an asterisk in this report may be impacted, depending on the outcome of that process.</p>	

STATE OF MAINE)
)
COUNTY OF PENOBSCOT)


AFFIDAVIT

NOW, BEFORE ME, the undersigned authority, personally came and appeared, Gerard R. Chasse, who first being duly sworn by me, did depose and say:

1. I am President and Chief Operating Officer of Maine Public Service Company.
2. I have reviewed the Chapter 330 Report with the person(s) responsible for its development and affirm that the utilities have not planned or made any improvements to the transmission system with the intent of giving any existing or proposed generator preferential treatment nor with the intent of providing any ratepayer subsidy in terms of allocating the costs of any such improvements between generators and ratepayers.


Gerard R. Chasse
President & COO

Subscribed and sworn to me this 1st day of April, 2013.


Notary Public

KAREN A. BELL
Notary Public • State of Maine
My Commission Expires July 6, 2019

