

1 Q. Reference PUB-NLH-502: Please provide an update on the progress of the working  
2 group in respect of emergency assistance and reserve sharing, outlining the  
3 definition of the scope, model preparation, study contingencies and project  
4 schedule.

5

6

7 A. With reference to PUB-NLH-502, the working group sessions were held September  
8 16 – 18, 2015 to develop the scope, model preparation, and schedule. The  
9 transmission service providers within MATPC include Newfoundland and Labrador  
10 Hydro, Nova Scotia Power Inc (NSPI), New Brunswick Power (NBP), Maritime  
11 Electric Company Ltd (MECL), Emera Newfoundland and Labrador (ENL) and  
12 Northern Maine Independent System Administrator (NMISA which includes Emera  
13 Maine Northern Operating Region, EMNOR and Eastern Maine Electric Cooperative,  
14 EMEC). The members of the working group include NLH (through the RFI team),  
15 NSPI, and NBP, with MECL participation as needed to discuss potential impacts on  
16 PEI. EMNOR will not actively participate but stay informed as studies progressed.  
17 EMEC are not involved in the study.

18

19 The mandate of working group is to include system study and analysis to  
20 determine:

21

- Atlantic Area Transfer Limits post 2017

22

- Benefits of reserve sharing

23

- Emergency power transfer capability

24

25 The working group will review existing studies and relevant documents such as:

26

- Most recent area review reports provided to NPCC

- 1 • The individual OATTs of NS and NB for potential language and process
- 2 • New England loss of load limit study
- 3 • NERC standard FAC 13-02 Assessment of Transfer Capability for the Near-
- 4 Term Transmission Planning Horizon as the basis of study
- 5 • NERC BAL and EOP standards as they relate to reserve sharing and
- 6 emergency supply
- 7 • NPCC Directory 5 – Reserves and Directory 6 – Reserve Sharing Groups
- 8 • Existing reserve sharing agreement between NBP and NSPI
- 9

MATPC Reserve Sharing and Emergency Supply Study		
Date	Scheduled Activity	Status
Sep 16 – 18, 2015	<ul style="list-style-type: none"> <li>• Kick off Meeting</li> <li>• Base case development</li> </ul>	<ul style="list-style-type: none"> <li>• 2019 was selected as the base year for the analysis</li> <li>• The Eastern Interconnection model was truncated to the NPCC foot print plus NL</li> <li>• Four core base cases were developed covering winter peak, summer peak and light load (high wind generation in Maritimes)</li> </ul>
Sep 18 - Oct 7, 2015	<ul style="list-style-type: none"> <li>• Complete model building</li> <li>• Entities review provincial OATTs and applicable standards</li> </ul>	<ul style="list-style-type: none"> <li>• From the four core cases a total of nine cases were developed for the dispatches across the NB-NE, NB-NS-PEI, and NS-NL interfaces</li> <li>• Each transmission entity has updated the model to include their system upgrades for 2019</li> </ul>

		<ul style="list-style-type: none"> <li>Provincial OATT language permits the concepts of the study</li> </ul>
Oct 7, 2015	<ul style="list-style-type: none"> <li>Conference call – status update</li> </ul>	<ul style="list-style-type: none"> <li>Call completed</li> </ul>
Oct 7 – 26, 2015	<ul style="list-style-type: none"> <li>PSS®E analysis</li> </ul>	<ul style="list-style-type: none"> <li>PSS®E analysis ongoing</li> </ul>
Oct 26, 2015	<ul style="list-style-type: none"> <li>Conference call – review preliminary results</li> </ul>	<ul style="list-style-type: none"> <li>Progress slow due to other priority activities by all utilities</li> </ul>
Oct 26 – Dec 7, 2015	<ul style="list-style-type: none"> <li>Complete PSS®E analysis</li> </ul>	<ul style="list-style-type: none"> <li>Progress slow due to other priority activities by all utilities</li> </ul>
Dec 7, 2015	<ul style="list-style-type: none"> <li>Conference call – review PSS®E final results</li> </ul>	<ul style="list-style-type: none"> <li>Progress slow due to other priority activities by all utilities</li> </ul>
Oct 7, 2015 – Jan 11, 2016	<ul style="list-style-type: none"> <li>Plexos economic analysis of reserve sharing</li> </ul>	<ul style="list-style-type: none"> <li>Generation planners engaged for Plexos work, delay required until PSS®E analysis results available</li> <li>Estimate spring 2017</li> </ul>
Feb 16 – 17, 2016	<ul style="list-style-type: none"> <li>Face-to-face meeting evaluate and merge results</li> </ul>	<ul style="list-style-type: none"> <li>Meeting held Mar 21 and 22, 2016</li> <li>NLH has completed its component of transfer limits indicating <ul style="list-style-type: none"> <li>A minimum reserve of 154 MW within NL area, up to 229 MW</li> <li>Transfer limit on ML up to 500 MW seasonal dependency, 250 MW firm</li> </ul> </li> <li>NBP has completed its component of transfer limits indicating</li> </ul>

		<ul style="list-style-type: none"> <li>○ Review of the NE loss of load limit indicates that ML can be loaded to 375 MW (NS to NL) in all load and NB generation scenarios</li> <li>○ Upgrades on 138 kV near the NB-NS-PEI interface result in a firm NB-NS transfer of 200 MW plus TRM of 105 MW</li> <li>○ There are 130 MW of booking on the interface leaving 70 MW to be offered in an open season in 2016</li> <li>● NSPI are working through its component of transfer limits.             <ul style="list-style-type: none"> <li>○ Advise that changes in capital plan will require adjustment to NSPI model and potential impact on NS transfers</li> </ul> </li> <li>● NSPI advise April 12, 2015             <ul style="list-style-type: none"> <li>○ Preliminary analysis indicates 375 MW can be delivered to the ML Woodbine converter for export to NL through re-dispatch of Wreck Cove hydro and thermal units at Point Aconi and Lingan, plus operation of NSPI gas turbines and use of up to 170 MW of reserve from NB. The 170 MW would include the</li> </ul> </li> </ul>
--	--	--

**Island Interconnected System Supply Issues and Power Outages**

		70 MW of available firm capacity on the NB-NS interface plus the 105 MW of TRM for reserve sharing on the interface.
Feb 18 – Mar 30, 2016	<ul style="list-style-type: none"> <li>• Prepare final report</li> </ul>	<ul style="list-style-type: none"> <li>• Scheduled end of Q3</li> </ul>