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Request IR-1:

Reference: Extent of new modeling in support of Action Plan update.

(a) State whether NSP conducted any new capacity expansion or production cost modeling as part of this IRP Action Plan and Roadmap update.

(i) If yes, explain how these results were used to inform the Action Plan and Roadmap update.

(ii) If no, state when the modeling runs that are used as the basis for the Action Plan update were conducted.

(b) State whether NSP has conducted any new capacity expansion or production cost modeling since the finalization of the Clean Electricity Regulations.

(i) If yes, explain how NSP translated these regulations into the modeling environment and summarize the impacts on the resource portfolio.

(ii) If no, explain why NSP has not done so.

(c) State whether the IRP Action Plan update incorporates the most recent load forecast, DSM Plan, and load management assumptions.

(d) State the extent to which the updated Action Plan considers or uses the modeling results and input assumptions used in assessing the benefits associated with the Reliability Tie in Matter M12217.

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1 **(e) If applicable, provide workpapers associated with any new modeling conducted for**
2 **the Action Plan update. Provide input assumptions and full results tables (both in**
3 **Excel format) associated with any new modeling used to update the Action Plan.**
4

5 Response IR-1:
6

7 (a) NS Power did not conduct any new capacity expansion or economic dispatch modeling as
8 part of the IRP Action Plan and Roadmap update. The intent of the IRP Action Plan and
9 Roadmap update is to provide information on the progress made, changes observed in the
10 planning environment for the Action Plan and Roadmap items that were developed from
11 the modeling that was completed for the 2023 Evergreen IRP, and to identify signals of
12 significant change in the planning environment that may require further analysis.
13

14 (b) Please refer to NSEB IR-1 part (c). NS Power has not completed any IRP-specific capacity
15 expansion and economic dispatch modeling following the release of the final CER due to
16 the consistency between the Evergreen IRP CER assumptions/outcomes as compared to
17 the final CER.
18

19 (c) The updated IRP Action Plan does not incorporate the most recent load forecast, DSM
20 Plan, or load management assumptions, as the update was not a capacity expansion or
21 economic dispatch exercise. Please see the response to part (a).
22

23 (d) The updated IRP Action Plan did not incorporate the modeling results and input
24 assumptions used in the Reliability Tie application (M12217). Please see the response to
25 part (a).
26

27 (e) Modeling was not undertaken. Please see the response to part (a).

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Request IR-2:

Reference: The Path to 2030 - 2024 Update, pages 5-6, new NSIESO:

(a) Describe the transition process as it relates to NSIESO taking on modeling responsibilities for the next IRP, given that NS Power is currently working on items to support the next IRP, including conducting an updated ELCC study.

(b) Confirm or explain otherwise that NSIESO, and not NS Power, will conduct all new modeling exercises for the next IRP.

Response IR-2:

(a) Details of the IRP transition process to the NSIESO are uncertain at this time; please refer to SBA IR-18. With respect to work underway to support future IRP processes, NS Power's current understanding, aligned with the provisions of Bill 404, is that the information required to complete a future IRP would be transferred or otherwise made available to the NSIESO.

(b) NS Power confirms the current understanding that the next IRP will be conducted by the NSIESO including associated modeling work.

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Request IR-3:

Reference: The Path to 2030 - 2024 Update, Figure 1 - 2030 Clean Power Plan Resources, page 7, including footnotes 3 and 4; and Figure 2 – Nova Scotia’s 2030 Clean Power Plan (October 2023), page 14.

(a) Confirm, or explain otherwise, that this Action Plan update directly reflects the resource pathway contained in Figure 1 - 2030 Clean Power Plan Resources of the "The Path to 2030 - 2024 Update".

(b) Summarize the additional resource builds and timing in Figure 1 that this Action Plan update recommends, separated by resource type, relative to the 2023 IRP Action Plan.

(c) With respect to footnotes 3 and 4, how is, or how will, NSIESO determine the specific quantity and timing for new battery energy storage resources? In particular, does NSIESO plan to use updated modeling to determine such quantities and timing?

(d) With respect to “Stage 2” fast-acting generation resources seen in Figure 1, and the description of the Clean Power Plan fast-acting generation resources in Figure 2 (“Potential for 300+ MWs additional in 2030 or later” emphasis added), how was it determined that the Stage 2 Fast Acting Generation Resources timing, both initial COD and anticipated COD, was 2029-2030 given that the Clean Power Plan indicated 2030 or later for timing of such Stage 2 fast-acting resources?

Response IR-3:

(a) Confirmed.

(b) There is no change in the resource build or timing in this IRP Action Plan update relative to Figure 1 in the 2024 Update to The Path to 2030 filed in M12012.

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1 (c) NS Power is not aware of how the NSIESO will determine the specific quantity or timing
2 of new battery energy storage resources.

3
4 (d) The Clean Power Plan indicates up to 600 MW of new fast acting generation by 2030. This
5 is in alignment with the 2025 10-Year System Outlook report, which demonstrates the need
6 for these resources based on the most recent load forecast and building on the IRP Action
7 Plan developed as part of the 2023 Evergreen IRP.¹

¹ NS Power 2025 10 Year System Outlook report (M12386), July 14, 2025, Figure 20, p.46.

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Request IR-4:

Reference: Clean Electricity Regulations, slides 8-16.

(a) Describe if and how the CER treatment of new versus planned units will impact future actions related to near-term procurement of thermal generators.

(b) Concerning Slide 16 and the use of emitting generation beyond 2035: Confirm or explain otherwise that NS Power is using the Clean Electricity Regulations: SOR/2024-263 as posted under the Canada Gazette, Part II, Volume 158, Number 26, Registration SOR/2024-263 December 13, 2024.

(c) Re: slide 14. Provide an update on the timing of new, planned thermal units, including the number of units that are expected to meet and not meet certain progression milestones of the AEL by the end of 2025.

Response IR-4:

(a) The procurement of new thermal units has been transferred to the NSIESO. Please also refer to NSEB IR-2 part (a) for a discussion on the planned units.

(b) Confirmed.

(c) The procurement of new thermal units has been transferred to the NSIESO. Please also refer to NSEB IR-2 part (a) for a discussion on the planned units.

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Request IR-5:

Reference: The Path to 2030 – 2024 Update, pages 35-38, fuel conversions.

(a) Provide an update on the status of fuel conversions at existing units.

Response IR-5:

(a) There have been no updates to the status of fuel conversions at existing units since the 2024 The Path to 2030 update.

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Request IR-6:

Reference: The Path to 2030 – 2024 Update, page 35, fast-acting generation.

(a) State the current megawatt need and year of need for new fast-acting generation that is included in the current action plan and the basis for that need and timing.

Response IR-6:

(a) The addition of fast-acting generation as part of the resource portfolio enabling the 2030 decarbonization goals was confirmed in the 2023 Evergreen IRP as an outcome of the range of modeling scenarios studied. This new generation supports the integration of intermittent renewable resources and replaces the firm capacity anticipated to retire by 2030 as coal-based generation is phased out in order to comply with Provincial decarbonization requirements. The addition of 600 MW of new fast-acting generation is also part of the resource plan outlined in the Province's Clean Power Plan and The Path to 2030. The most recent MW and timing assumptions for these additions can be found in the 2025 10-Year System Outlook in Figure 7.¹

¹ NS Power 2025 10 Year System Outlook report (M12386), July 14, 2025, Figure 7, p.17.