

Revised LTEP Document

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Attachments: 2017-09-14 - 2017 LTEP Document Minister's Edit Tracker (consolidated).docx (28.85 kB); 2017-09-14- LTEP PO Edits (Post MO Briefing and new PO Edits) v2.docx (50.57 kB); 2017-09-14 - 2017 LTEP Document OEB Edit Tracker (Post MO Briefing).docx (74.07 kB); 2017-09-12 - 2017 LTEP Other Ministry and Agency Review (Post MO Briefing).docx (71.6 kB); 2017-09-14- Delivering Fairness and Choice v10 - 130pm (to MO) - Clean.docx (2.97 MB); 2017-09-14- Delivering Fairness and Choice v10 - 130pm (to MO) - Tracked.docx (3 MB)

Hi Andrew,

Attached is both a clean and tracked version of the revised LTEP document. The clean version is the one we would prepare to share with PO.

Also attached are the tracking documents used at Tuesday's meeting, which include updates based on our discussion at that meeting. Content that has been updated is highlighted in blue. All of these changes have been incorporated into the document. This document also incorporates the edits from the IESO, some ministry staff edits that were identified as revisions were being made, and the revisions discussed with the Minister (a tracking document for the Minister's edits is also attached).

We have also incorporated in the changes you requested this morning. We have made some modifications to the text, which you can see below. The red is the text you asked to have included, and anything highlighted in blue is how we have revised that text. We will continue to work through whether we can incorporate your additional map on the nuclear supply chain.

There are a couple PO edits we have to address later today, including new Ring of Fire language, which we are still waiting to receive from MDNM. We also may need to tweak the language around "environmental attributes" around market renewal.

We will work to finalize the document later today so we can begin the sign-off process.

If you're comfortable, we can prepare the attached draft of the LTEP to share with CO/PO.

Thanks,
Martin

Chapter 2: Refurbishing Nuclear

Bruce Power is currently undertaking a number of activities **in support of Bruce refurbishment and long-term operation as part of the revised contract**, including:

- * implementing an asset management program to optimize the life of the Bruce units before and after refurbishment;
- * developing a final cost estimate for refurbishing the first unit, Unit 6; **and**
- * executing contracts with suppliers **across Ontario**, including BWXT Canada and SNC-Lavalin; **and**
- * **developing a regional network of suppliers execution model of companies with a local presence in Bruce region to specifically benefit local communities in Bruce region.**

Chapter 2 - Summary

Summary

- * Market Renewal will refashion Ontario's wholesale electricity markets and ultimately result in a more competitive and flexible marketplace that efficiently meets system needs at the lowest cost, while preparing Ontario for the future by creating new mechanisms to effectively incorporate non-emitting resources and new and emerging technologies. Together, with cap and trade, it will also help to ensure Ontario's climate change commitments are met.
- * **This market renewal process will develop a "made in Ontario" solution taking lessons learned from other jurisdictions while collaborating with domestic market participants . There is a recognition that this will be for incremental capacity requirements.** Market Renewal will take this approach to develop new market mechanisms, including procurement of incremental capacity as required.

Chapter 3: IESO Market Renewal and Innovation

The IESO is preparing for the future by laying the foundation through Market Renewal **which will develop a made in Ontario solution** to create better price signals and establish more competitive market-based mechanisms to meet system needs. **, using a made in Ontario solution and for incremental capacity requirements.** The long-term goal of Market Renewal is to create a more dynamic market where all resources including new technologies will have the opportunity to compete alongside traditional forms of supply for a variety of system products such as energy, capacity and flexibility. As costs come down and new business models are developed, emerging technologies, often at the local level, will be increasingly competitive compared to traditional resources. At the same time the existing and new markets will present opportunities and choice to a wide variety of consumers looking to become more active in Ontario's energy markets.

Chapter 3: Nuclear Innovation

Cobalt-60 is a key isotope for medical applications. Currently, 70 per cent of the world's supply of the medical-grade Cobalt-60 isotope is produced in nuclear reactors at Chalk River, Pickering and Bruce B . The isotope is used for 10 million cancer therapy treatments around the world every year, as well as for medical imaging, equipment sterilization and non-invasive brain surgery. **Bruce Power has also established a new long-term supply of medical-grade HSA Cobalt from Bruce B that will treat brain tumors globally. This will help replace the supply from Chalk River 's reactor when it is closed in March ,2018.**

[NTD – The existing reference to "medical-grade" Cobalt and non-invasive brain surgery already covers HSA Cobalt / brain tumour treatment. We suggest keeping things simple and just talk about the new supply agreement for Bruce B to replace Chalk River.]