QUESTIONS BY MR. ROSS

MR. ROSS: I need some clarification on the prefiled evidence, because I don't have the benefit of an expert. I need to understand exactly what we're talking about.

Mr. Pappas actually asked a question that I found quite intriguing, but I didn't understand the answer, necessarily. There are thermal limits on lines for transmission, I understand you to have said. There is a newish 500 kV line that came about in the 1990s.

Is it utilizing the most current and up-to-date technology as regards thermal resistance and thermal capability?

MR. CHOW: My understanding is it is the standard new design at that time for Ontario Hydro.

MR. ROSS: I appreciate that. Is there anything that has advanced beyond that today that has a greater thermal capacity?

MR. CHOW: It is a very big line even for those days. It will carry up to 4000 megawatts, which is very large capacity.

MR. ROSS: Is there anything available that can carry greater capacity in terms of a line?

MR. SCHNEIDER: We don't have it with us, but I imagine if you are going to larger and larger conductor sizes, you may have to change towers, as well, because of the weight being carried by the tower. So you're not just talking about the line, you're talking about all of the structures and everything associated with it, if that's

what you're getting at.

MR. ROSS: It is. You don't know for sure whether there is maybe a higher gauge line that could carry more juice without running into the thermal-capacity issues?

MR. SCHNEIDER: The information I have, and I don't have the information to fully answer your question, but if you went to a higher conductor size, a difference in megawatt capability isn't material, in terms of the need that we're up against here.

MR. ROSS: I need to understand the high-voltage direct-current option that was looked at. I appreciate that it is more expensive. Correct me if I am wrong: the expense is really in converting AC to DC, and then at the end of the line converting DC to AC?

MR. SCHNEIDER: Yes.

MR. ROSS: Would there only be two spots on the line where that would be required, or are there other jump-ons and -offs that would necessitate that conversion?

MR. CHOW: This would be viewed as an express line from Bruce to Milton. There wouldn't be expectation that you need somewhere in the middle to tap off for other use.

MR. ROSS: As opposed to the existing 500 kilovolt line where there are four lines required, there are only two lines required with the high-voltage direct current, correct, positive, negative?

MR. CHOW: I don't quite understand.

MR. ROSS: Again, I am in over my head technically speaking, but --