



# ONTARIO ENERGY BOARD

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**Toronto Hydro-Electric System  
Limited**

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**THE ONTARIO ENERGY BOARD**

**Toronto Hydro-Electric System Limited**

**Application for energy distribution rates  
beginning January 1, 2025**

Technical Conference held in person and by videoconference  
from 2300 Yonge Street, 25th Floor, Toronto, Ontario,  
on Wednesday, April 10, 2024, commencing at 9:30 a.m.

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TECHNICAL CONFERENCE  
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A P P E A R A N C E S

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MARK GARNER BILL HARPER	Vulnerable Energy Consumers Coalition (VECC)

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1 Wednesday, April 10, 2024

2 --- On commencing at 9:30 a.m.

3 **TORONTO HYDRO-ELECTRIC SYSTEM LIMITED - PANEL 1,**

4 **RESUMED**

5 **Rei Marzoughi**

6 **Kirk Huntley**

7 **Matthew Higgins**

8 **Githu Mundenchira**

9 **Sushma Narisetty**

10 MR. MURRAY: Good morning, everyone, and welcome to  
11 day three of Toronto Hydro's technical conference. Before  
12 I hand it back over to OEB Staff to continue the questions  
13 of panel 1, I understand, Mr. Keizer, there are a couple of  
14 preliminary issues you would like to address.

15 **PRELIMINARY MATTERS:**

16 MR. KEIZER: Yes. The first preliminary issue is I  
17 believe there are a couple of corrections arising from the  
18 examination of yesterday.

19 MR. HIGGINS: Thanks, Mr. Keizer. So just, yes, just  
20 a couple of minor corrections after reviewing the  
21 transcript. From day one, I did have an exchange with Ms.  
22 Girvan regarding the assets-past-useful-life measure and  
23 noted at the time that, if we were to go back to 2015, the  
24 assets-past-useful-life metric may have been closer to 30  
25 percent back then. We went back and checked, and the  
26 specific number that we had at the time for as of 2015 was  
27 26 percent. I just wanted to correct that.

28 And yesterday, in an exchange with Mr. Brophy, Mr.

1 Brophy asked the question -- I am just paraphrasing: What  
2 are the metrics -- are the metrics on the current proposed  
3 performance scorecard all different, distinct from the  
4 metrics that were on our custom scorecard in the last, in  
5 this current rate period, the previous rate application?

6 And my response was subject to check. I believe that  
7 was a correct interpretation. However, after a closer  
8 look, the TRIF metric, the total recordable injury  
9 frequency metric, and the SAIFI defective equipment metric  
10 are in fact identical between the two periods. So I just  
11 wanted to correct that, as well.

12 MR. KEIZER: Thank you, Mr. Higgins. We have two  
13 other preliminary matters. Through the course of the last  
14 few days, Mr. Rubenstein and I have had some discussions  
15 about an undertaking that Toronto Hydro could give, and it  
16 arose from Mr. Rubenstein's examination.

17 And so the first related to third-party reports, that  
18 a further disclosure, you know, in addition to what's  
19 already been disclosed for external/internal audits, and  
20 assets as well as benchmarking. And so we have settled on  
21 the wording of an undertaking, and Toronto Hydro will  
22 undertake to provide any third-party reports assessing the  
23 effectiveness of distribution capital and maintenance  
24 planning and execution processes that Toronto Hydro relies  
25 upon, in whole or in part, to plan and deliver its plan.

26 MR. MURRAY: That will be marked undertaking JT3.1.

27 **UNDERTAKING JT3.1: TO PROVIDE ANY THIRD-PARTY REPORTS**  
28 **ASSESSING THE EFFECTIVENESS OF DISTRIBUTION CAPITAL**

1           **AND MAINTENANCE PLANNING AND EXECUTION PROCESSES THAT**  
2           **TORONTO HYDRO RELIES UPON, IN WHOLE OR IN PART, TO**  
3           **PLAN AND DELIVER ITS PLAN.**

4           MR. KEIZER: And we also had discussions during Mr.  
5 Rubenstein's examination, with respect to project  
6 variances. With respect to program execution, some of the  
7 work is packaged into projects, and Mr. Rubenstein sought  
8 an inquiry with respect to various projects and the  
9 variances and any rationale related to those variances. So  
10 what we, Toronto Hydro, have agreed to provide is a list of  
11 projects that are greater than \$5 million and those that  
12 show a variance which is either a plus-20 or minus-15  
13 percent.

14           MR. MURRAY: That will be undertaking JT3.2.

15           **UNDERTAKING JT3.2: TO PROVIDE A LIST OF PROJECTS THAT**  
16           **ARE GREATER THAN \$5 MILLION AND THOSE THAT SHOW A**  
17           **VARIANCE WHICH IS EITHER A PLUS-20 OR MINUS-15 PERCENT**  
18           **(RELATING TO DISTRIBUTION CAPITAL).**

19           MR. KEIZER: And just a note that that relates to  
20 distribution capital.

21           MR. MURRAY: I want to canvass the room to see if  
22 there were any other preliminary issues. Seeing none, I  
23 will pass things over to Ms. Defazio to continue.

24           **EXAMINATION BY MS. DEFAZIO (CONT'D.):**

25           MS. DEFAZIO: Hi. Good morning, panel. Yesterday, we  
26 had an undertaking about --

27           MR. RUBENSTEIN: Sorry, sorry. Did you -- are those  
28 undertakings marked?

1 MR. MURRAY: Yes, I gave the marks 3.1 and 3.2.

2 MR. RUBENSTEIN: Sorry.

3 MS. DEFAZIO: Okay. Yesterday, we had an undertaking  
4 related to the depreciation rate for GPMC project and the  
5 RGCRP funding. Can we have a second undertaking to verify  
6 the depreciation rates in the RGCRP models for both the  
7 HONI and the ES for 2023 going forward?

8 MR. MUNDENCHIRA: Yes.

9 MS. DEFAZIO: Thank you.

10 MR. MURRAY: That will be undertaking JT3.3.

11 **UNDERTAKING JT3.3: TO VERIFY THE DEPRECIATION RATES**  
12 **IN THE RGCRP MODELS FOR BOTH THE HONI AND THE ES FOR**  
13 **2023 GOING FORWARD.**

14 MS. DEFAZIO: So, from what we've been discussing,  
15 Toronto Hydro's program-based capital programs, it  
16 forecasts cost on a unit-cost basis. How are these unit  
17 costs developed?

18 MR. HIGGINS: There's not necessarily a uniform  
19 methodology. We do -- because it depends on the nature of  
20 the asset class, the type of information we have, and,  
21 ultimately, at what level of granularity we're forecasting.  
22 So, for something like a stations program, for example, it  
23 would be more like a project-based estimate or something  
24 closer to it; there would be more variability based on  
25 location, at least, whereas with something like a Horseshoe  
26 renewal program, we are working more with historical  
27 average values, and then there may be some judgment  
28 involved in making adjustments based on whether the future



1 assets that we are looking to replace may in some way be  
2 different, but those adjustments are usually pretty  
3 limited.

4 MS. DEFAZIO: Are these unit costs anywhere on the  
5 record?

6 MR. HIGGINS: Sorry, we're just conferring because  
7 we're responsible for different programs. I do think it  
8 depends on the program, so we would have to go program by  
9 program just to see which ones we've published and which  
10 ones we haven't, but there are a number of programs where  
11 those unit costs are provided.

12 MS. DEFAZIO: Okay. Could we get a summary table for  
13 those unit costs for 2025 or that were used for the  
14 estimates of the forecast period?

15 MR. HIGGINS: Yes, that should be fine. Yes.

16 MS. DEFAZIO: Thank you.

17 MR. MURRAY: That will be undertaking JT3.4.

18 **UNDERTAKING JT3.4: TO PROVIDE A SUMMARY TABLE FOR**  
19 **THOSE UNIT COSTS FOR 2025 OR THAT WERE USED FOR THE**  
20 **ESTIMATES OF THE FORECAST PERIOD.**

21 MS. DEFAZIO: In looking at the historic work done for  
22 2020 to 2023, in some of the programs it's a little  
23 challenging getting the volumes or the units done within  
24 the program costs for each year. Could you break that out  
25 for us, as well?

26 MR. HIGGINS: You're looking specifically for each  
27 year or just the overall five years? Because we have  
28 published a master table with the sum of the five years, in

1 the interrogatory response, which I could point you to.

2 MS. DEFAZIO: Okay, sure. If you could, point me to  
3 that, please.

4 MR. HIGGINS: Just one moment. So I believe it's 2B-  
5 AMPCO-42, and there should be an appendix. If we can, just  
6 check that. Yes, Appendix A.

7 MS. DEFAZIO: So, if we were to take the sum of the  
8 programs, the capital costs for those years, divided by  
9 those numbers, we would get unit costs? Okay. Would that  
10 be correct?

11 MR. HIGGINS: There may be some nuances there. The  
12 math could be done, obviously, if the costs are broken out  
13 in a way that's consistent, sort of assigned to each of  
14 these unit classes. One could do that math and, in some  
15 cases, it may or may not be valid.

16 In terms of how we actually develop these costs, that  
17 is -- I guess my note of caution would be, in some  
18 instances, it's based on particular unique factors for each  
19 particular unit, like I gave the stations example. You  
20 know, you could come up with an average unit cost, but more  
21 appropriate would be looking at each individual unit, for  
22 example, and there's different caveats like that that I  
23 would just want to put around doing that kind of a simple  
24 exercise.

25 MS. DEFAZIO: For your major asset classes, could you  
26 do that for us, so understanding, right? Poles, you could  
27 have a pole with a riser or pole with a transformer, or  
28 pole with one circuit or three circuits, but what's the

1 average costs? You know, I don't want them broken out into  
2 those categories, but we understand there's a variability  
3 in that, but what would be the average unit cost for some  
4 of your major assets broken out under these programs?

5 MR. HIGGINS: So, I think maybe that might be captured  
6 by the earlier undertaking, which is to provide the unit  
7 costs assumptions that went into the program, so as part of  
8 that, we can try to provide something that is responsive to  
9 what you just asked.

10 MS. DEFAZIO: Okay. Thank you. If we could please  
11 pull up 2B-Staff-151, and go to C. So, here we have the  
12 health scores and the probability of failure scores for  
13 wood poles and station transformers. And why is the  
14 correlation between the health scores and the probability  
15 of failures so different for different type of asset types?

16 MR. HIGGINS: So, just at a high level, I believe  
17 there is another interrogatory response, we don't have to  
18 pull it up, but where we explain the general nature of the  
19 analysis that goes into determining the probability of  
20 failure based on condition. And this ties a little bit to  
21 what we were discussing yesterday about failure curves.  
22 It, ultimately, that value is going to be tied to however  
23 we define the actual failure mode, so what failure modes  
24 are we actually calculating probability of failure for.

25 And for the health scores, that's a combination of  
26 what we call incipient, degraded, and catastrophic  
27 failures, and they have different probabilities, and those  
28 probabilities vary depending on the asset class and exactly

1 how it fails and how often those failure modes occur. So,  
2 what you're seeing here, really, is just a reflection of  
3 how often the defined failure modes occur for those assets,  
4 but, you know, in a way that's correlated with condition.

5 And, you know, and what ends up happening is once  
6 these probability of failure are combined with the cost of  
7 intervening upon that failure, it all sort of evens out.  
8 So, the kinds of failures that would happen more often with  
9 station power transformers, for example, because there's a  
10 higher probability of failure there, are less costly to  
11 address, whereas the probability of failure of, you know,  
12 our wood poles don't catastrophically fail all that often,  
13 but when they do it's a major issue, so there's more to it,  
14 but that's, essentially, the difference that you're seeing  
15 there.

16 MS. DEFAZIO: When Toronto Hydro undertakes risk  
17 analysis for equipment failures, does it use the health  
18 index values as an input or the probability of failure for  
19 that specific asset class?

20 MR. HIGGINS: So, when planners are assessing risk for  
21 the purposes of scoping a project, they're going to be  
22 looking at the actual health score. So, like, even more  
23 granular than just the health index, they're not going to  
24 decide on the basis of whether it's HI5 or HI4, they're  
25 going to look at the actual underlying health score as part  
26 of that analysis, and they may even look at the specific  
27 maintenance information that underpins that health score to  
28 get even more specific, alongside other factors that we've

1 mentioned elsewhere in the evidence.

2       Where the probability of failure values will come in  
3 in the future is in a couple of places, one is within our  
4 engineering asset investment planning tool, which is our  
5 Copperleaf implementation. It will be used to determine  
6 the value of projects. And then there's a number of other  
7 places where it could come in where we're contemplating  
8 including it as well in different kinds of modelling. But  
9 one of the other tools that we are developing as part of  
10 continuing to implement the overall CNAIM, CBRM, approach,  
11 the condition based risk management approach, would be risk  
12 matrixes for asset class. So, essentially combining health  
13 and criticality together into a more holistic quantitative  
14 view of asset risk.

15       MS. DEFAZIO: Could you provide the risk matrix that  
16 you used for your risk analysis of equipment failures?

17       MR. HIGGINS: We're still in the process of creating  
18 those matrixes.

19       MS. DEFAZIO: Okay. So, talking about pole  
20 inspections. The useful life of wood poles is proposed to  
21 be changed from the Concentric report from 40 to 45 years.  
22 So, why is there a need, in light of that, to increase the  
23 inspection cycle times for wood poles?

24       MS. NARISSETTY: If I can take us to our response to IR  
25 2B-PWU-10. Here we provide the different reasons for why  
26 we would like to adjust the inspection cycle for wood poles  
27 from a 10 year cycle to an 8 year cycle. And to summarize,  
28 it will help us better refine our ACA on the wood poles to

1 support a condition based maintenance. We have an  
2 increasing volume of wood poles that are past their useful  
3 life, and also to help us target inspections on these  
4 poles, because we have a significant number of them in HI4  
5 and HI5 condition.

6 MS. DEFAZIO: So, is the increased inspection on all  
7 wood poles or just the wood poles that are in a past useful  
8 life or in a deteriorated condition?

9 MS. NARISSETTY: At this point we want to do it for all  
10 the wood poles, and once we gather enough data, it will  
11 help us move towards a more targeted inspection cycle. But  
12 before that we need to gain more data. Because 10 years is  
13 too long of a cycle for us to have, you know, good  
14 meaningful data to target these inspections better.

15 MS. DEFAZIO: And is your wood poles replacement  
16 budget primarily based on the useful life of wood poles or  
17 the inspection results?

18 MR. HIGGINS: You're asking about the renewal side of  
19 it, the replacement pacing?

20 MS. DEFAZIO: Yes.

21 MR. HIGGINS: Yes, okay. No. So, that budget is  
22 primarily based on two things. One is if we want to get  
23 really specific about it, it would be how the current  
24 health scores have been trending with respect to the level  
25 of investment, and what we know about how that investment  
26 has been allocated over history. We also look at, to some  
27 extent, forecasted deterioration of health scores, and then  
28 there are a number of other factors which we discuss in 2B-

1 SEC-44, that are not necessarily related to probability of  
2 failure but are related to criticality, performance, as  
3 well as various system design considerations.

4 MS. DEFAZIO: Okay. I want to talk about feeder  
5 loading in general. What does Toronto Hydro see in terms  
6 of minimum loading on feeders, around what time of day is  
7 your feeder loading at a minimum? We've talked a lot about  
8 peak loads, but what about minimum loads?

9 MR. HUNTLEY: Ms. Defazio, based on the best  
10 information we have, that tends to occur on the weekends.

11 MS. DEFAZIO: Okay. During the week, would it be  
12 during the day or overnight? Afternoon, mornings?

13 MR. HUNTLEY: Subject to check, it would be overnight.

14 MS. DEFAZIO: Okay. Thank you. When we look at the  
15 answer to 2B-Staff-165, I'll just summarize it because  
16 there's a bunch of tables here. But approximately 110  
17 megawatts of 305 megawatts of DER currently connected to  
18 Toronto Hydro's system are solar.

19 Do you have any projections or insight into the amount  
20 of future DER connections to your system? Would they be  
21 solar or other technologies?

22 MR. HUNTLEY: Thanks for the question, Ms. Defazio.  
23 Based on forecasts, existing forecasts, by volume of  
24 connections, the predominant technology is expected to be  
25 solar.

26 MS. DEFAZIO: Okay. And what's the expected  
27 production of solar DERs during the nighttime, which is  
28 your minimum load?

1 MR. HUNTLEY: At this time, we don't have a forecast  
2 for that.

3 MS. DEFAZIO: Okay. If we can go to Staff -- 2B-  
4 Staff-202, please, part A, the answer. So in this answer,  
5 Toronto Hydro says that replacing the population of direct-  
6 buried cable in dirt would result in a SAIDI and SAIFI for  
7 defective equipment to deteriorate by 6 percent and 5  
8 percent versus including in dirt and in duct.

9 I just want to clarify, is that considering the other  
10 programs that have happened? So that -- sorry, that 5 and  
11 6 percent increase that you would get by replacing the  
12 cables and ducts, is that net or gross of the other  
13 programs?

14 MR. HIGGINS: You mean of any other programs that may  
15 replace cable?

16 MS. DEFAZIO: That may improve reliability.

17 MR. HIGGINS: Yeah.

18 MS. DEFAZIO: For example, your FLISR program would be  
19 -- you said -- would improve reliability by 20 percent for  
20 SAIDI and 25 percent for SAIFI. If you don't replace the  
21 cables and ducts, does that mean it would be -- is that  
22 6 percent decrease accounting for that increase due to  
23 FLISR? Or is it a raw 6 percent?

24 MR. HIGGINS: Right. So I understand the question.  
25 So the way that we did this was using the same model we  
26 used in all the other places in the evidence. So it is  
27 inclusive of -- essentially we held all other assumptions  
28 constant, and just dialled down all the things that staff



1 asked us to dial down: the cables that are in duct,  
2 essentially.

3 And then our interpretation was basically what happens  
4 if you just focus on getting rid of all the direct-buried  
5 cable, which is the assumption that we have made here, so  
6 getting rid of all their remaining direct-buried cable, and  
7 not doing any other kind of cable. But everything else is  
8 the same.

9 So now, just one correction there: We are not  
10 expecting benefits from FLISR in this rate period.

11 MS. DEFAZIO: In the following...

12 MS. HIGGINS: It's in the following rate period, so it  
13 is more the assumptions around SCADA switches and reclosers  
14 that are built in.

15 So hopefully that answers your question; it is  
16 inclusive of all the other elements of the plan.

17 MS. DEFAZIO: So if you didn't do the other elements  
18 of the plan, would the deterioration due to just this  
19 program be higher.

20 MR. HIGGINS: Yes, because I don't know the magnitude  
21 exactly of that scenario, but theoretically, directionally,  
22 yes, because we are layering on the benefits of additional  
23 SCADA switches after all the other forecasts are developed,  
24 so it's basically an adjustment factor. So, yeah, if you  
25 took away the modernization benefits in particular, you  
26 would see even more deterioration, subject to actually  
27 running the scenario. Yeah.

28 MS. DEFAZIO: Okay. Thank you. Can we please go to

1 the 2022 scorecard? That was the one I sent yesterday.  
2 Yeah. So we see on the top that the years for this are  
3 2018 to 2022. And if you scroll down to the next page,  
4 please? It says -- sorry, can you go back to the top?  
5 Keep going. Sorry, this is the 2020, which is fine -- 2016  
6 to 2020. Okay. Scroll down. And in 2020 it says -- 2020  
7 is -- yeah, this page at the top. Okay.

8 It provides the document scorecard performance  
9 measures. Sorry, can I just see the title. Go up. The  
10 2020 scorecard management and discussion. And then, under  
11 the scorecard, MD&A, in the second paragraph, it says, "For  
12 the 2020 reporting year", and it goes on.

13 If we go to -- so this is clearly talking about the  
14 results in the end year of the scorecard, like the last  
15 year shown. If we go to 2B-Staff-213, and go to the  
16 footnote?

17 And the footnote is referring to the serious  
18 electrical incident reporting. Your response states that  
19 there's a one-year lag in the reporting, and the scorecard  
20 relies on Electrical Safety Authority recording for the SEI  
21 metric, which has a one-year lag, which tells us that the  
22 reporting on the scorecard for the serious electrical  
23 incidents was for the year prior. I would just like to  
24 confirm that answer.

25 MS. NARISSETTY: I believe so, yes.

26 MS. DEFAZIO: Okay. So the 2019 value was reported on  
27 the 2020 scorecard, and the 2020 on the 2021, and the 2021  
28 on the 2022.

1 To the best of this panel's knowledge, because I know  
2 you are only responsible for certain areas, is there any  
3 other information on the scorecard that should be qualified  
4 or clarified or corrected in its reporting?

5 MS. NARISSETTY: I don't think so. It's only this one.

6 MS. DEFAZIO: It's only this one. And why does the  
7 ESA reporting require there to be a lag in reporting on to  
8 the OEB?

9 MS. NARISSETTY: I wouldn't be able to speak to that.  
10 We align with their timelines and, yeah, the communication  
11 with them, before we are able to report to the OEB on the  
12 MD&A scorecard.

13 MS. DEFAZIO: Okay. Thank you.

14 MS. NARISSETTY: Yeah.

15 MS. DEFAZIO: If we go to 2B-Staff-219. We are  
16 looking for spending, reducing the currents or the impact  
17 of extended-duration outages. And the overhead resiliency  
18 segment targets reduction of extended-duration outages.  
19 Are there any other segments of the capital spending that  
20 target reducing extended-duration outages?

21 MR. HIGGINS: Apologies, Ms. Defazio. We're just kind  
22 of doing inventory here. So the one that most obviously  
23 fits, I think the answer to your question would be, the  
24 rear lot program. It is specifically targeted on  
25 difficult-to-access equipment, and we do see, we have seen  
26 very recently, actually, outages that last for -- it can be  
27 days, basically, on those parts of the system.

28 But more generally, when we're creating renewal

1 projects, there is consideration in any program for the  
2 level of criticality of assets, and we will be targeting  
3 areas that may in general be vulnerable to lengthier  
4 outages.

5 Another asset class where outages are inherently  
6 lengthy, if we do see kind of those rare situations where  
7 multiple assets fail would be on the station system. And  
8 so, in a sense, we're also through that investment program  
9 targeting long-duration outages.

10 MS. DEFAZIO: Thank you. If we could go --

11 MR. HIGGINS: Oh, sorry. I forgot an obvious example,  
12 as well, which is the downtown contingency part of the  
13 system enhancements program which is focused on sort of  
14 catastrophic events and N-2 events in the downtown, so that  
15 would be another example, as well. Sorry for interrupting.

16 MS. DEFAZIO: Thank you. Could we go to Exhibit 2B,  
17 E6, and we're going to go to page 42. Okay. Can you  
18 scroll down to the text, please, on page 42? I don't know  
19 if we're in the right system right now, E6.6. Oh, sorry  
20 about that; E6.6, and down to page 42. Okay. Thank you.

21 If we can go to line 13, I'll just read it.

22 It says: "Complexities involved in the  
23 transformer stations segment contributing to  
24 increased cost include the procurement of unique  
25 TS switch gear which meets Toronto Hydro's  
26 stringent safety and reliability requirements."

27 Why do you specify unique equipment, different from  
28 your peers, when it increases costs?

1 Or can you just explain what those requirements would  
2 be, different from your peers, that would increase the  
3 costs?

4 MR. HUNTLEY: Thanks, Ms. Defazio. Specific to the  
5 stations renewal program, Toronto Hydro has utilized arc-  
6 resistant switch gear historically as part of its renewal  
7 program. It's a safety initiative.

8 With respect to the stations included in the 2020 to  
9 2024 program and carried over to the 2025 to '29 program,  
10 the uniqueness is that this is small-footprint type C  
11 switchgear, meaning that it is compact because the stations  
12 that we're targeting for renewal have a very, very small  
13 footprint. So the marketplace has had to conduct  
14 significant R&D work in order to get tested and certified  
15 switch gear that is appropriate for this application.

16 MS. DEFAZIO: Okay. And what voltage? Are you  
17 talking about the 27.6?

18 MR. HUNTLEY: This is primarily downtown, and it is at  
19 13.8kV.

20 MS. DEFAZIO: Okay, so there is no commercially off-  
21 the-shelf, small-enough, arc-proof switch gear to fit your  
22 old stations?

23 MR. HUNTLEY: That is correct.

24 MS. DEFAZIO: Okay. Thank you. If we can, please go  
25 to 2B E4. So it's E4, tab 2, section 1. It's just one  
26 line, and it just says that there are 94,000 suite meters.  
27 Sorry, I have E4, Tab 1, section 1, page 39.

28 MR. KEIZER: Sorry. We're in Exhibit 2B. Is that

1 correct?

2 MS. DEFAZIO: E4, sorry, E4, T2 -- it's just one line.  
3 It says there are 94,000 suite meters. My question just to  
4 the panel is: Are there 94,000 suite metering units or  
5 94,000 suite metering customers?

6 MR. HIGGINS: That might be a better question for  
7 panel 2.

8 MS. DEFAZIO: Panel 2?

9 MR. HIGGINS: Yes.

10 MS. DEFAZIO: Okay. So, if we could, go to IR  
11 response 4-Staff-293. So, looking at the corrective  
12 maintenance for the Delta-Wye work, the costs -- I  
13 understand this is a new program, and the costs have risen  
14 to \$2.1 million in 2023. I'm just wondering what portion  
15 or percentage of the total impacted services have been  
16 addressed already.

17 MS. NARISSETTY: I don't have the number off the top of  
18 my head, but we can take an undertaking for that.

19 MS. DEFAZIO: Thank you.

20 MR. MURRAY: That will be undertaking JT3.5.

21 **UNDERTAKING JT3.5: REFERRING TO 4-STAFF-293,**  
22 **CORRECTIVE MAINTENANCE FOR DELTA-WYE WORK, TO PROVIDE**  
23 **THE PORTION OR PERCENTAGE OF THE TOTAL IMPACTED**  
24 **SERVICES HAVE BEEN ADDRESSED ALREADY.**

25 MS. DEFAZIO: So is this program expected to continue,  
26 then, in the next couple of years?

27 MS. NARISSETTY: That is correct.

28 MS. DEFAZIO: Thank you. I'm not sure if this is a

1 panel 1 or panel 3 question, so I'll just throw it out  
2 there. In description of your process for acceptance of  
3 assets constructed by or maintained by contractors, Toronto  
4 Hydro says that third-party auditors performed unannounced  
5 spot audits for quality and safety purposes. I'm just  
6 wondering: Who are the third-party auditors?

7 MS. NARISSETTY: I think that question is best answered  
8 by panel 2.

9 MS. DEFAZIO: Two or three, would you know?

10 MS. NARISSETTY: Two.

11 MS. DEFAZIO: Two? Okay. Thank you. I would like to  
12 talk about the worst-performing feeder program, and we can  
13 go to IR 2B-Staff-293, page 4 -- I'm sorry, 239.

14 Toronto Hydro says its worst performing feeder program  
15 will face upward cost pressures due to better visibility  
16 provided by the new outage management system. Can you  
17 explain to me how the new outage management system  
18 increases the number of worst performing feeders, like,  
19 doesn't it just record the outages?

20 MS. NARISSETTY: It does record the outages. However,  
21 because the system is more accurate, it is capturing more  
22 of the outages that are actually happening out in the  
23 field, and because the criteria for what constitutes a  
24 worst performing feeder is based on the number of outages a  
25 particular feeder experiences. So, previously, you know,  
26 if a feeder was being captured as having, let's say, five  
27 outages, then it would not have made the cut for the worst  
28 performing feeder list. But now, because of the additional

1 sensitivity of the outage management system, it's now  
2 capturing the actual outages that are happening in the  
3 field, and perhaps now they are having eight outages in a  
4 year. That will make the cut for what is -- what qualifies  
5 as a worst performing feeder and hence the upward pressure.

6 MS. DEFAZIO: So, just to clarify, FESI-7, which is  
7 one of your criteria, is feeders experiencing seven or more  
8 sustained interruptions, and those interruption are greater  
9 than a minute to be a sustained interruption. And FESI-6  
10 which is your other criteria is a feeder with a large  
11 customer that has six or more sustained interruptions  
12 correct?

13 MS. NARISSETTY: Correct.

14 MS. DEFAZIO: Okay. So, before this new outage  
15 system, how was Toronto Hydro informed of a sustained  
16 outage on its system?

17 MS. NARISSETTY: So, for larger scale outages, we have  
18 visibility [audio dropout] and our SCADA system captures  
19 these outages, and for more localized outages, we would  
20 rely on customers calling in.

21 MS. DEFAZIO: And in those cases, that would be a  
22 sustained outage, would you have logged those outages?

23 MS. NARISSETTY: In either of these cases, I think that  
24 would be better answered by panel 2.

25 MS. DEFAZIO: Okay. So, if you have -- what I'm  
26 getting at is: Before when you had a different outage  
27 management system, if you had a sustained outage, my  
28 assumption was before you would have recorded it in your



1 tracking system, and now you're recording it in a different  
2 tracking system. It wouldn't just be the feeders  
3 experiencing sustained interruptions that would be  
4 increasing, but your overall reliability numbers increasing  
5 because your weren't recording them all before?

6 MR. KEIZER: I think the detail with respect to this  
7 system and its use and operation is well within the ambit  
8 of Mr. Smart, who is appearing on panel 2.

9 MS. DEFAZIO: Okay. Panel 2. Thank you. And, yes,  
10 thank you very much, panel. That's, I believe, the end of  
11 OEB questions for panel 1, thank you.

12 **EXAMINATION BY MR. RUBENSTEIN (CONT'D.):**

13 MR. RUBENSTEIN: I'm wondering if I can just ask a  
14 follow-up question to an answer that Mr. Higgins gave,  
15 really, at the beginning of today. You were explaining to  
16 Ms. Defazio about how you derived the 2025 unit costs, and  
17 I'm interested in the programmatic programs, not the  
18 network ones which are more project based. And you said  
19 that they were -- I think you were talking in a general  
20 sense, you were saying that they were sort of based on  
21 historic. I wonder if you can be more specific for the  
22 programmatic, the Horseshoe, the overhead, the overhead  
23 program, the -- and then, I think, the Horseshoe overhead  
24 and Horseshoe underground. Can you be a little more  
25 specific of how you're driving the 2025 unit costs?

26 MR. HIGGINS: We can articulate that in the  
27 interrogatory response, but, you know, essentially because  
28 those are what we would call parametric estimating

1 programs, because, again, we don't have the -- we're not  
2 estimating on the basis of projects, the best information  
3 we have would be, you know, looking at large numbers of  
4 past accomplishments and the cost of those accomplishments  
5 and averaging them out, essentially. And so, we're looking  
6 at, essentially, our in-service data from the past, and  
7 we're stripping certain costs out and just kind of making  
8 sure that they're appropriate for a go-forward estimating  
9 basis, and then leveraging those costs. And it may be  
10 slightly different depending on the asset class or the  
11 particular program exactly what we do, but that's the  
12 general approach.

13 MR. RUBENSTEIN: Can you in the response, I think  
14 there's an undertaking you're providing to give them, can  
15 you specify what years, and where that information is  
16 coming? I'm assuming you're forecasting inflation amount  
17 that you're building into that as well?

18 MR. HIGGINS: So, that would be an after the fact  
19 application. So, we ask our planners to sort of ignore  
20 inflation, ignore any overheads that get allocated to  
21 capital projects, it's just pure sort of unit costs, and  
22 then we make adjustments after to account for those things.

23 MR. RUBENSTEIN: On a program basis or on -- do you  
24 sort of take that unit costs and say, okay, now we're going  
25 to increase it by X percentage a year?

26 MR. HIGGINS: No, on a program -- yes, on a program  
27 basis.

28 MR. RUBENSTEIN: Okay. Thank you. It would be

1 helpful in that undertaking if you do provide the specifics  
2 of how you have derived those unit costs.

3 MR. HIGGINS: We can do that, yes.

4 MR. RUBENSTEIN: Thanks.

5 MR. MURRAY: That takes outcomes the end of panel one,  
6 I realize it's a little bit early, I don't see panel 2  
7 here, so perhaps we should maybe take our morning break now  
8 for 10 minutes. And then we'll sort of probably take a bit  
9 of an early lunch and that, and come back in 10 minutes.  
10 And we will -- so let's come back at 10:30 with panel 2.

11 MR. KEIZER: If you just give us maybe 15 minutes for  
12 us to get everybody mustered?

13 MR. MURRAY: Sounds good. 10:35 a.m.

14 --- Recess taken at 10:19 a.m.

15 --- On resuming at 10:38 a.m.

16 MR. MURRAY: Welcome back to the technical conference  
17 of Toronto Hydro's application. We now have before us  
18 Panel 2, Mr. Keizer, perhaps I could pass it over to you  
19 and you can introduce your panel.

20 MR. KEIZER: Thank you, Mr. Murray. Panel 2 is now in  
21 place, so maybe what I can ask the panellists to do is  
22 state their name and their position. And we'll start at  
23 the end of the panel here, with Mr. Nasso, please.

24 MR. NASSO: Good morning, everyone. My name is Sandro  
25 Nasso, general manager of external capital projects and  
26 external programs.

27 MR. SMART: Good morning, Dan Smart, general manager  
28 of distribution stations and grid operations.

1 MS. WOO: Humie Woo, vice president information  
2 technology.

3 MR. HOM SMA: Good morning, Kees Homsma, Kees-Jan. I go  
4 by "Kees", director of facilities and fleet.

5 MS. PAGE: Good morning. Evelyn Page. I am the  
6 director of customer care operations.

7 MR. KEIZER: Just so the panellists are aware, they  
8 share a microphone. So when you turn off, you turn off  
9 both microphones.

10 MS. PAGE: Is mine on?

11 MR. KEIZER: If the light is on, the microphone should  
12 be on. It was off when you stated your name.

13 MS. PAGE: Hi. Evelyn Page, I am the director of  
14 customer care operations.

15 **TORONTO HYDRO ELECTRIC SYSTEM LIMITED - PANEL 2**

16 **Sandro Nasso**

17 **Dan Smart**

18 **Humie Woo**

19 **Kees Homsma**

20 **Evelyn Page**

21 MR. KEIZER: Thank you, I have no preliminary matters  
22 with respect to panel 2, so they are available for  
23 questions.

24 MR. MURRAY: Thank you, Mr. Keizer. First on the list  
25 is Mr. Elson from Environmental Defence.

26 **EXAMINATION BY MR. ELSON:**

27 MR. ELSON: Good morning, panel. As Mr. Murray said,  
28 my name is Kent Elson, and I represent Environmental

1 Defence. I'll be very brief, just on one question that was  
2 bumped over from panel 1, and that is relating to 1B-ED-03.  
3 And this was an interrogatory where we had asked Toronto  
4 Hydro which heating equipment it would be replacing, and  
5 what it would be replacing it with. And the answer was  
6 that for end-of-life replacements, you would be replacing  
7 fossil fuel heating with electric or hybrid.

8 And I just wasn't clear if you are saying that is for  
9 all of the replacements of fossil fuels, fossil fuel  
10 heating equipment. Is that the case, for all fossil fuel  
11 equipment, you either go with electric or hybrid?

12 MR. HOM SMA: Yes. I think it would be smart to look  
13 at the evidence 2B, E, 8.2.2.3.3. It's page 19. That's  
14 where we share our decarbonization plan for facilities.  
15 Using our -- and also 1B-Staff-97G, we reference all the  
16 different, you know, narratives within the evidence to  
17 support that answer.

18 At a very high level, we are focusing at 500  
19 Commissioners; that's where all of our natural gas  
20 equipment is expected to reach end of life or already at  
21 end of life. And we will -- our goal is to replace them  
22 with electric appliances, where possible.

23 MR. ELSON: Okay. By "where possible", you just mean  
24 if it's sort of technically feasible?

25 MR. HOM SMA: Yes, sir.

26 MR. ELSON: Okay. You said in the interrogatory  
27 response, electric or hybrid. And you seem to be saying  
28 now electric, which to be honest -- which makes a lot more

1 sense to me.

2 And so is your answer that you will be replacing it  
3 with electric, where that is possible, as opposed to  
4 equipment that can use gas?

5 MR. HOM SMA: At 500 Commissioners, it will be  
6 electric.

7 MR. ELSON: And in other cases, it may be hybrid? Is  
8 that what you are saying? Or, in other cases, it will be  
9 electric?

10 MR. HOM SMA: So, for this rate period, we are focusing  
11 at 500 Commissioners. So it will be electric.

12 MR. ELSON: Got it. Okay. And I guess the only other  
13 question would be what about other equipment other than in  
14 500 Commissioners? It seemed like there were other pieces  
15 that are coming to the end of their life. What about  
16 those?

17 MR. HOM SMA: Yes. So we are committed to our net zero  
18 strategy between now and 2040. You will see that we have  
19 two brand new work centres at 71 Rexdale and 715 Milner.  
20 They have brand-new equipment. They are BOMA Gold  
21 buildings.

22 We are allowing those assets to depreciate their  
23 normal life. They are working well, and we do plan to  
24 tackle those in future rate periods to meet our net zero  
25 goal.

26 MR. ELSON: Okay. And in your answer, when you said  
27 electric or hybrid, is it that the answer -- you know, I  
28 shouldn't rely on that answer? I am just debating whether

1 I need to have a discussion with you about putting in  
2 hybrid, because it seems to me, if you put in hybrid  
3 heating, then you are still using fossil fuels beyond 2040,  
4 which is your target not to.

5 It seems to me what you are saying is if you can do  
6 electric, if it's technically feasible, that's what you'll  
7 do. Is that what you're saying?

8 MR. HOMSMA: Yes, sir.

9 MR. ELSON: Okay. That's good for me. Thank you,  
10 very much, Panel.

11 MR. MURRAY: Thank you, Mr. Elson. Next on the list  
12 is the School Energy Coalition. Mr. Rubenstein, is it you  
13 or is it Ms. Scott?

14 MR. RUBENSTEIN: It will be both of us, but I believe  
15 Ms. Scott will lead us off? Are you there?

16 MR. MURRAY: Apparently she is, but her camera and mic  
17 are off.

18 MR. RUBENSTEIN: All right. How about I will go  
19 first? Hopefully, that can be resolved. I will just send  
20 her an email while I am doing this, in case she is having  
21 some technical issues.

22 MR. MURRAY: Yes. We will follow up with her.

23 **EXAMINATION BY MR. RUBENSTEIN:**

24 MR. RUBENSTEIN: I just want to address a couple  
25 questions that were punted to your panel. And the first  
26 one is with respect to 2B-SEC-34, appendix A. And this is  
27 the asset management group assessment part of the ISO  
28 550001 gap analysis. And I asked a question on page 9,

1 under clause 6.1 --

2 MR. MURRAY: I think the panel is maybe having a  
3 little difficulty hearing you, Mr. Rubenstein.

4 MR. RUBENSTEIN: Sorry.

5 MS. WOO: There's a fan behind us, so it is a little  
6 hard to hear you.

7 MR. RUBENSTEIN: I apologize. Let me first address a  
8 question that was punted to your panel with respect to this  
9 document here. And the first -- in this document, I had  
10 asked, it references under clause 6.1, "Project status  
11 reports." And I wanted to ask, what is that exactly?

12 MR. NASSO: So a project status report is a PowerPoint  
13 template that has a number of items in there that really  
14 provides management tracking of a project or initiative.

15 MR. RUBENSTEIN: And are these -- are they used for  
16 all projects? Or?

17 MR. NASSO: No, not for all projects.

18 MR. RUBENSTEIN: When are they used.

19 MR. NASSO: It depends on the business unit's need.  
20 We could use it for various strategic-type projects, or  
21 other initiatives. It is really a standardized template  
22 that kind of helps us provide a presentation to provide a  
23 status update.

24 MR. RUBENSTEIN: Thank you, very much. Can I ask you  
25 now to turn to 2B-SEC-55. Here, we asked you a number of  
26 questions with respect to the capital program.

27 In part D, we had asked you to just explain the  
28 contractual arrangements Toronto Hydro has with its major



1 third-party contractors. If you flip to the next page, the  
2 response says, or part of the response says:

3 "Toronto Hydro continues to utilize a unit price  
4 contract management system to ensure cost  
5 effectiveness and containment."

6 What is the unit cost contract management system?

7 MR. NASSO: So the unit price contractor management  
8 system is assembled units of work for third parties. So  
9 the assembled units of work may come in the form of either  
10 civil, electrical, or design, and what it does is explains  
11 the nature of the work and what the costs will be. It's a  
12 set cost.

13 MR. RUBENSTEIN: And so, just to make sure I  
14 understand, when you're determining to give work to a  
15 contractor to do a project, essentially, there's a unit  
16 cost to do that work?

17 MR. NASSO: There's a unit cost. There are probably  
18 20,000 units, so there are various units that would be used  
19 to get the estimate.

20 MR. RUBENSTEIN: Okay. And so, for example, if you're  
21 building a pole line --

22 MR. NASSO: Right.

23 MR. RUBENSTEIN: -- there may be unit costs for each  
24 pole, you know, and it's at that granular level?

25 MR. NASSO: It is even more granular than that. It  
26 goes right down to where you are actually digging, in the  
27 sidewalk, roadway, and so forth, yes.

28 MR. RUBENSTEIN: Okay. In part E, we asked:

1           "Has Toronto Hydro undertaken any recent analysis  
2           regarding the cost effectiveness of in-house  
3           versus third-party contractors? If so, please  
4           provided analysis."

5           In your response, you point to the UMS unit cost  
6           benchmarking, but that compares your overall unit costs to  
7           other utilities. The question is: Have you done any  
8           analysis comparing Toronto Hydro internal labour resources  
9           undertaking a project versus having one of your external  
10          contractors?

11          MR. NASSO: So the question, if we go back to the  
12          question: Has Toronto Hydro undertaken any recent analysis  
13          regarding the cost effectiveness of in-house or third  
14          party?

15          MR. RUBENSTEIN: Sorry. So let me rephrase the  
16          question --

17          MR. NASSO: Okay.

18          MR. RUBENSTEIN: -- as what was meant, "versus a third  
19          party": Essentially, as I was mentioning, your own labour  
20          resources versus a third-party contractor doing the same  
21          work.

22          MR. NASSO: No, no formal analysis has been completed.

23          MR. RUBENSTEIN: And so do you know if it is, at a  
24          high level, let's say, for programmatic work, capital work,  
25          for example -- let's use that -- if it is more cost  
26          effective to use third-party contractors versus your own?

27          MR. NASSO: We have a rigorous procurement process  
28          where, when deciding on the contractors, they are the most

1 cost effective, have the experience, capable, and have the  
2 resources to do the work. So, when we're deciding on the  
3 work going to those new contractors, those are the most  
4 cost-effective individuals that can do that work.

5 MR. RUBENSTEIN: But my understanding, and -- well,  
6 maybe I'm incorrect here. There is certain work that  
7 either sometimes it is Toronto Hydro labourers doing it and  
8 sometimes it's external labour doing it. Correct?

9 MR. NASSO: That's correct.

10 MR. RUBENSTEIN: And so have you determined or have  
11 you done any analysis or do you know who is more cost  
12 effective?

13 Which is cheaper to do the same type of work?

14 MR. NASSO: So I don't have an analysis that explains  
15 the differences, but I mean, as our program grows, there  
16 are a number of things that we do look at. So, again,  
17 before we issue the first piece of work, we make sure that  
18 our internal resource balanced, and the overflow goes to  
19 the contractors.

20 MR. RUBENSTEIN: But, just at a high level here --

21 MR. NASSO: Right.

22 MR. RUBENSTEIN: -- you have a piece of work --

23 MR. NASSO: Mm-hmm?

24 MR. RUBENSTEIN: Who is more, who is -- is it cheaper  
25 to have Hydro One labour doing the work or the external  
26 contractor doing the work?

27 MR. NASSO: It all depends. There are various factors  
28 when considering. Again, there are other factors like

1 skill set, resource availability, being able to do the work  
2 when you actually need it. So there are a number of other  
3 factors along with cost that are decided when we issue that  
4 scope of work to either internal or external.

5 MR. RUBENSTEIN: I understand why you would -- in  
6 determining if you're going to give the work to external  
7 versus internal, there are lots of factors.

8 MR. NASSO: Yes.

9 MR. RUBENSTEIN: I'm just trying to understand,  
10 putting those aside for a moment, I'm just trying to  
11 understand on the cost.

12 MR. NASSO: So what I'm getting at is you just can't  
13 look at the cost because there are other important factors  
14 that play into being able to complete the work safely, with  
15 quality, and make sure we get it on time.

16 MR. RUBENSTEIN: And the reason I ask -- and let me  
17 just go to the question, but the reason I ask: If  
18 historically the mix -- in panel one, we talked about, and  
19 maybe you were listening at the end, about that costs are  
20 forecasted on a unit-cost basis, and they are based on  
21 historical costs.

22 But, if the mix, the future mix, is different than the  
23 historic mix -- I'm just trying to understand how that  
24 would affect --

25 MR. NASSO: So --

26 MR. RUBENSTEIN: -- what those future costs, if those  
27 future costs truly reflect the unit costs as derived.

28 MR. NASSO: It's a good question. What's important is

1 that, you know, as our program grows, we do look at the  
2 various scopes of work and how we issue to either internal,  
3 external. We are always doing continuous improvement  
4 initiatives to take a look at which is the most cost  
5 effective. So, as we go on and continue to issue work, we  
6 are always looking to ensure that that scope of work is  
7 given to the most cost-effective either internal or  
8 external.

9 MR. RUBENSTEIN: All right. I think I saw Ms. Scott  
10 on the screen, so maybe I will turn it over to her, and  
11 then we can come back to some of my questions.

12 **EXAMINATION BY MS. SCOTT:**

13 MS. SCOTT: Oh, okay. Sorry about that. Hello,  
14 panel. My name is Jane Scott. I'm a consultant with the  
15 School Energy Coalition. Most of my questions are OM&A  
16 focused, so, if they are better answered by panel 3, please  
17 let me know.

18 Can we start with cloud computing, cloud solutions? I  
19 guess it is called different things in different places.  
20 Figure 14 and 15 in Exhibit 4-1-1, if we maybe could pull  
21 that up?

22 MR. MURRAY: Ms. Scott, it's Lawren Murray here. If  
23 you can, maybe speak up a bit. We sort of hear you, but  
24 you're on the cusp of almost being a little bit too quiet,  
25 so --

26 MS. SCOTT: Oh.

27 MR. MURRAY: -- if you can just speak up a little bit,  
28 that would be great. We're going to also try to turn up

1 the volume here.

2 MS. SCOTT: Thank you. So I was referring to figures  
3 14 and 15 in Exhibit 4-1-1. I don't have a -- oh, I do  
4 have a page number, page 55 of 57. There we go. So, in  
5 these two figures for cloud computing and then in the next  
6 one -- it calls it cloud solutions -- it shows for 2025  
7 \$5.9 million and then, by the time we get to 2029, an  
8 additional \$2.2 million.

9 So my question is: Are all the cloud computing OM&A  
10 costs shown, including those 5.9 and the 2.2, shown in the  
11 IT OM&A?

12 MS. WOO: Yes, that's correct. The \$5.9 million from  
13 2020 to 2025 is in the IT OM&A evidence.

14 MS. SCOTT: Ah, so that 5.9 covers that whole period;  
15 it's not just for 2025?

16 MS. WOO: The 5.9 is the variance from 2020 versus  
17 2025, so that's an increase of \$5.9 million from 2020 to  
18 2025.

19 MS. SCOTT: Right. Do we have anywhere in the  
20 evidence, each year, what the cloud computing actual and  
21 then forecasted spend is?

22 MS. WOO: If you can give me a minute, I think we do  
23 have an IR.

24 MS. SCOTT: Thank you.

25 MS. WOO: If I could ask you to refer to IR2-Staff-  
26 263, table 1. That shows a 2025 to 2029 forecast of our  
27 cloud implementation, and cloud subscription fees.

28 MS. SCOTT: So, those are all the OM&A files?

1 MS. WOO: These are all OM&A costs, that's correct.

2 MS. SCOTT: And do we have what's 2020 to 2024? And I  
3 appreciate that table, thank you for pointing me there.

4 MS. WOO: I do not believe we have it separated out  
5 into 2020 to 2024 for cloud. We do maybe have, subject to  
6 check, an aggregated cost for the five years in the current  
7 period.

8 MS. SCOTT: Well, maybe I'll come back to that,  
9 because I do have another question related to this. In 4-  
10 SEC-89, which provided the updated schedule 17 IT cost, it  
11 does say that it has been -- it takes the balances in the  
12 cloud computing DVA into account, and I was going to ask  
13 what that meant, whether they had been taken out or  
14 included in, or how did those costs factor into the costs  
15 that were in?

16 MS. WOO: Yes, you're correct. So, if we could refer  
17 back to IR2-Staff-263.

18 MS. SCOTT: Okay. And I should say, the person who is  
19 doing the work on the exhibits is doing a great job.

20 MS. WOO: Thank you. So, if you look at the line 10  
21 there, an OEB released a letter regarding a new accounting  
22 order to establish a deferral account to record cloud  
23 computing implementation costs on November 2nd, 2023. So,  
24 the deferral account for some of the cloud computing we  
25 plan to do for 2024, not any time before November 2nd,  
26 2023.

27 MS. SCOTT: So, the funds that are shown in 2023 in 9-  
28 Staff-349, 491,544 K, that's for the period after November

1 2nd?

2 MS. WOO: I don't see the 400K on the screen right  
3 now. I just want to make sure I look at the number to make  
4 sure I --

5 MS. SCOTT: Sorry, it's in the DVA continuity schedule  
6 that was attached to that IR.

7 MS. WOO: Is it possible to refer to -- I just want to  
8 look at the schedule first just to confirm the answer.

9 MR. KEIZER: Sorry, Mr. Scott, do we have an exhibit  
10 number related to the continuity schedule you could point  
11 us to?

12 MS. SCOTT: Well, it's attachment A to 9-Staff-349.

13 MR. KEIZER: Maybe if we scroll down it's there?

14 MS. SCOTT: No, it's a total separate Excel  
15 spreadsheet. I don't see what it was called.

16 MR. KEIZER: I think we're looking for it.

17 MS. SCOTT: That's it, yes. I think if you scroll up,  
18 you will see the -- yes, the cloud computing cost there.

19 MS. WOO: That's correct.

20 MS. SCOTT: Yes, if you scroll over to 2023. Going to  
21 the right. Continue to the right, yes. So, it's -- no,  
22 sorry, to the other direction. Yes, there's the 491. So,  
23 that was in -- can we go for the transactions in 2023?  
24 Yes, so there. Yes, so the 491,544 in 2023.

25 MS. WOO: Yes, to confirm, that is the cost from  
26 November 2nd to the end of -- to December 31st, 2023, cloud  
27 implementation cost.

28 MS. SCOTT: Right. And that's all of the costs?



1 MS. WOO: For that period of that year. So, it's just  
2 less than two months.

3 MS. SCOTT: So, when 4-SEC-89 says it accounts for  
4 that cost, it had removed it from what was shown in 2023,  
5 then, originally?

6 MS. WOO: Can we just go back to, sorry, I just lost  
7 track of the -- go back to the IR. Could you repeat the  
8 question?

9 MS. SCOTT: 4-SEC-89, part D. And schedule -- so, the  
10 one for -- just there, it says -- so it shows the updates  
11 for 2023 and 2024 bridge and reflects the impact of the  
12 cloud DVA.

13 MS. WOO: Yes, that is taken into consideration that  
14 the cloud implementation starting November 2nd, 2023.

15 MS. SCOTT: When you say taken into consideration, you  
16 mean it's been removed from the OM&A and put into the DVA?

17 MS. WOO: Subject to check, yes.

18 MS. SCOTT: And then a subsequent year, 2024,  
19 3.5 million was put in to the DVA, and that would be a  
20 similar -- I guess what I'm looking for is what is now in  
21 OM&A for cloud computing, and what is in, and forecast, to  
22 potentially be in the DVA, the cloud computing DVA?

23 MS. WOO: In 2024 the cloud computing is forecasted to  
24 be in DVA. If we could refer you back to the IR 2-Staff-  
25 263, question B. And the answer here:

26 "For '25 to '29, given the proposed five-year  
27 OM&A funding through a revenue growth factor,  
28 includes a forecast for incremental cloud

1 implementation and subscription cost, Toronto  
2 Hydro have decided not to pursue a deferral  
3 account starting 2025 to '29."

4 MS. SCOTT: Okay. So, the 2.2 that's shown in 2029 is  
5 the incremental increase between '25 and '29 of its  
6 forecast, if I understand that then, going back to that  
7 figure 14 and 15?

8 MS. WOO: Yes, if we go back to the figure, I think  
9 the one we were looking at was 2020 versus 2025.

10 MS. SCOTT: Right. That's the 5.9?

11 MS. WOO: Yes.

12 MS. SCOTT: And does that change? Does that 5.9  
13 change now that you've changed what's going in the DVA for  
14 2023 and 2024?

15 MS. WOO: No, it doesn't change because this graph is  
16 a variance from 2020 to 2025, and the deferral account is  
17 for 2023 and 2024.

18 MS. SCOTT: Okay. Okay, I think I understand that.  
19 But maybe I can go back and ask for an IR that shows, for  
20 2020 through to 2029, for each year, what is the actual and  
21 forecasted spend and how it is computed.

22 MR. KEIZER: That's fine.

23 MR. MURRAY: That will be Undertaking JT3.6.

24 **UNDERTAKING JT3.6: RE 2-STAFF-263B, FOR 2020 TO 2029,**  
25 **TO SHOW ACTUAL AND FORECASTED SPEND AND THE**  
26 **CALCULATION**

27 MS. SCOTT: One of the things in 4-SEC-109, and this  
28 is where we had asked about maintenance contracts and

1 licensing. And we asked about the forecast, if you go down  
2 to the next page, I think. The next page. Sorry, yeah.

3 And we asked about what was the forecast. And Toronto  
4 Hydro said they were unable to provide that because you  
5 were working on an IT investment planning process. And if  
6 you could provide a status of that planning process?

7 MS. WOO: If I could refer you to our IT evidence, our  
8 IT investment strategy, exhibit 2B, and -- D8, page 7. If  
9 you scroll to the bottom. Actually, sorry, just up a  
10 little bit? Yeah, a little bit, to the beginning of the  
11 section?

12 This is our planning process. It is an ongoing  
13 process that we do every year. We look at different  
14 criteria to prioritize different initiatives, what is  
15 critical for our organization every year. We have a five-  
16 year road map of investments, and that's a continuous  
17 process. And then we have a detailed project plan for the  
18 upcoming year.

19 We do business cases. We follow a very thorough  
20 governance process and create business cases closer to the  
21 start of execution, usually the year before the project  
22 starts.

23 But to answer your question, the process is continuous  
24 and ongoing, and something that we work on, on a continuous  
25 basis.

26 MS. SCOTT: So the forecast for 2025 to 2029 is based  
27 on what's currently in this IT investment planning process?

28 MS. WOO: The forecast is based on many factors. One

1 is looking at our, as we talk about this ETP, enterprise  
2 technology portfolio five-year road map. In addition, we  
3 do a lot of thorough historical analysis, trending  
4 analysis, as well, to come up with the forecast.

5 MS. SCOTT: But your response in the previous or the  
6 4-SEC-109 led me to believe you couldn't say specifically  
7 what you were spending that money on.

8 MS. WOO: We don't have a detailed plan as to exactly  
9 what the project names are. We have a high-level plan.  
10 And the forecast comes from a detailed historical analysis.  
11 Maybe if I can refer you back to the same IR, response D?  
12 It actually gives, at a high level, some examples of those  
13 projects, line 4, 5 and 6. And I will read it out loud:

14 "At a high level, Toronto Hydro plans to deploy  
15 cloud-based solutions to support vegetation  
16 management, customer relationship management and  
17 also enhancing our mobile workforce management  
18 during the 2025 to 2029 rate period."

19 However, as I have mentioned, we will use our ETP  
20 process to make sure we prioritize and focus on the  
21 projects that are most critical for us for that particular  
22 year.

23 MS. SCOTT: Okay. I will leave it there. Thank you.

24 Again, for the locates, the answers that were given  
25 for the DVA for the cloud computing, that's the same idea,  
26 is that you removed funds from 2023 and 2024 and put them  
27 into the Getting Ontario Connected Act DVA?

28 MS. WOO: Can you maybe put that up on screen for us,

1 please?

2 MS. SCOTT: I guess we are looking at 4 SEC -- well,  
3 it's a bit of 4-SEC-89, but it is also the DVA Excel  
4 spreadsheet. I guess, to see the numbers, it's the Excel  
5 spreadsheet is the best place. Yes, there we go. So it's  
6 the next line down, so the 9/10. Okay. And I think  
7 there's 1.5 million in 2024.

8 MR. SMART: Maybe, if I could ask to you pull up 4-  
9 Staff-296? And, if you scroll down, there's a table in one  
10 of the later parts of the question. Sorry, down a little  
11 bit more. I think it's part of E, actually.

12 So in response to this IR, we provided the amounts and  
13 the balances that we would record in the GOCA variance  
14 account for 2023 and 2024.

15 MS. SCOTT: Right. And in this case, you are asking  
16 to continue the DVA, through 2025 to 2029?

17 MR. SMART: That's correct.

18 MS. SCOTT: Yeah, I've got to move on quickly. So 4-  
19 SEC-106. I don't know that you need to pull it up, but you  
20 provided the percentage of customers on E-billing, and  
21 estimated annual savings, 2022 to 2029. Can you provide me  
22 with the information for 2020 and 2021, as well?

23 MS. PAGE: Hi. Just to clarify, you would like the  
24 percentage for 2020 and 2021?

25 MS. SCOTT: Yes, and the table 2 as well.

26 MS. PAGE: Okay. I don't have that information with  
27 me, but I can take it as an undertaking.

28 MS. SCOTT: Thank you, very much.

1 MR. MURRAY: That will be undertaking JT3.7.

2 **UNDERTAKING JT3.7: REF 4-SEC-106, TO PROVIDE THE**  
3 **PERCENTAGE OF CUSTOMERS ON E-BILLING FOR 2020 AND**  
4 **2021, AND TABLE 2 AS WELL.**

5 MS. SCOTT: And 4-SEC-100B. And this was about key  
6 accounts. Is this the right panel to be asking about key  
7 accounts? And it talked about the increase in FTEs, and  
8 the related increase in key accounts. And at the bottom  
9 there, it says:

10 "Toronto Hydro estimates an additional 60 to 70  
11 new account key accounts to be added over the  
12 2024 to 2029 period."

13 My understanding is key accounts are greater than one  
14 meg accounts. And when I look at the customer numbers,  
15 that doesn't seem to jive. So if you could clarify that?

16 MS. PAGE: Sorry, can you clarify which numbers aren't  
17 jiving for you?

18 MS. SCOTT: Well, Toronto Hydro estimates an  
19 additional 60 to 70 new key accounts. Are you saying 60 to  
20 70 new customers over one meg in that period?

21 MS. PAGE: That is correct. It could be either over  
22 one meg or it could be a priority account. So sometimes it  
23 is not necessarily one account that is over one meg, but it  
24 could be several accounts that, when aggregated, are over  
25 one meg.

26 MS. SCOTT: Okay, because it is certainly, when I look  
27 at -- and I'm going back to Exhibit 3, table 2, customer  
28 numbers by rate class. The forecast of customer numbers

1 for general service and large use is not increasing by 60  
2 or 70.

3 MS. PAGE: Yes, and I think that's because the  
4 definition isn't strictly "greater than 1 meg," so, for  
5 example, it could be a hospital, it could be an account  
6 that's not even a customer. So, for example, it could be a  
7 developer that we work closely with, so it's not  
8 necessarily all customers that we consider key accounts.

9 MS. SCOTT: Okay. Just based on the first line of  
10 that answer, that it -- it implied that they were key, the  
11 513 key accounts, and there are roughly 513 of those  
12 customers.

13 MS. PAGE: Yes. I'll just clarify that that number is  
14 strictly customers.

15 MS. SCOTT: That 513? But it's not all what you  
16 consider key accounts. I guess that's the confusing thing.  
17 Yes. Maybe I can ask you that, then: What is the number,  
18 current number, of key accounts that you have?

19 MS. PAGE: That are customer based is the 513.

20 MS. SCOTT: Okay, but you're saying there are  
21 additional ones on top of that?

22 MS. PAGE: Yes. The key accounts team is more of a,  
23 like a program, a key accounts program, so there are  
24 certain customers that we specifically support. So there  
25 are the 513 customers, which really is aggregated into 423  
26 unique customers, but the program and the staff support  
27 developers, other priority loads such as hospitals, so  
28 there are other things that the seven staff would spend

1 time on. And the 60 to 70 is simply a forecast.

2 MS. SCOTT: Right. I'll have to hand it back to my  
3 colleague, Mr. Rubenstein, just for time constraints.  
4 Thank you.

5 MR. RUBENSTEIN: Thank you very much. There is  
6 another question that was punted to this panel. Maybe we  
7 can -- well, let me skip to the preamble, and then we can  
8 get to the right interrogatory since a number of them  
9 pointed to it.

10 In 2B-SEC-37, we asked you about management tracking  
11 progress on capital plans and what reporting there was and  
12 a copy of the recent version. In 2B-SEC-39, we asked  
13 specifically about executive performance reports. And, for  
14 both, you point us to 2B-AMPCO-29 B and C. In that  
15 interrogatory, our part B, you discuss the monthly  
16 investment and operations planning process. There's a  
17 presentation given, as I read it. Do I have that right?

18 MR. NASSO: That's correct.

19 MR. RUBENSTEIN: But you declined to provide an  
20 example as you say it has no probative value to the issues.  
21 I was a bit confused by that answer. Is it Toronto Hydro's  
22 position that scrutiny of the company's oversight of its  
23 capital plan execution is not a relevant issue in this  
24 proceeding?

25 MR. NASSO: No, that's not correct. So let me explain  
26 the meeting. So the meeting is a three-hour meeting that  
27 has -- the presentation encompasses the various work  
28 programs, maybe cap ex or op ex. We provide updates on the



1 various sub-segments that feed into it.

2 So the document, itself, is a snapshot in time, but  
3 what's really, really important in that meeting is the  
4 review and the discussion that happens in that meeting in  
5 terms of deciding mitigating activities to steer that  
6 program in the right direction.

7 MR. RUBENSTEIN: So, in 2B-SEC-39, we had asked you  
8 for the three most -- I believe would be the equivalent of  
9 what are essentially IOP reports.

10 MR. NASSO: Mm-hmm?

11 MR. RUBENSTEIN: So can -- or I guess they're  
12 presentations as you're saying. I'm going to ask again  
13 that you provide it, and I think your comment about that  
14 really it's the discussion and all that, I assume there are  
15 notes taken of that meeting?

16 MR. NASSO: There are a number of things. We have an  
17 actual log. It's a formal meeting with a decision log. A  
18 decision log and decision log happen on every single  
19 meeting, yes.

20 MR. RUBENSTEIN: Well, I'm going to ask based on the  
21 question of 2B-SEC-39 that you provide the three most  
22 recent reports and notes or decision logs so we can  
23 understand that process better.

24 MR. KEIZER: Sorry, so you need to see examples of the  
25 decision log? Is that what you're asking?

26 MR. RUBENSTEIN: We're going to ask for the three most  
27 recent meetings to utilize as an example, to understand. I  
28 think that's the best way to do it.

1 MR. KEIZER: And that's just a means by which to  
2 understand the process. Is that --

3 MR. RUBENSTEIN: Understand the process, understand  
4 oversight. We think the most recent ones are probably the  
5 best, and so it would be the reports or, as I take,  
6 presentations and then, if there are notes or an action log  
7 or what flows out of that.

8 MR. KEIZER: Can I just have a moment? So I think  
9 that, to take back to the witness' statement that this is a  
10 snapshot in time, I mean I'm not sure necessarily what it  
11 establishes or shows, other than that a meeting took place  
12 and there was something particular on the agenda.

13 But why don't we do it this way, that we'll take it,  
14 to the extent that we can produce it, we will; if for some  
15 reason on examination of these documents we consider it not  
16 to be relevant, we'll set it out and the rationale for  
17 doing so in the IR, in the undertaking.

18 MR. MURRAY: That will be undertaking JT3.8.

19 **UNDERTAKING JT3.8: REFERRING TO 2B-SEC-39, TO THE**  
20 **EXTENT IT IS POSSIBLE, TO PROVIDE THE THREE MOST**  
21 **RECENT REPORTS AND NOTES OR DECISION LOGS; IF DEEMED**  
22 **NOT RELEVANT, TO SET OUT THE RATIONALE.**

23 MR. RUBENSTEIN: Can I ask you to turn to 2B-SEC-64,  
24 and I'm specifically interested in part E. This was  
25 directed to the AMI 2.0 program, and the answer references  
26 that it's nearing the end of the competitor procurement for  
27 the AMI program. Can you just be a little more specific of  
28 what you mean by that? Where are we in the process?

1 MS. PAGE: I'm sorry. Could I ask you to speak up a  
2 little louder. I can't hear.

3 MR. RUBENSTEIN: I apologize for that. In that  
4 question, we had asked you about the competitor procurement  
5 process for the AMI 2.0, and, in the response, you say,  
6 "Toronto Hydro is nearing the end stages of the competitor  
7 procurement process for the AMI 2.0." I was wondering if  
8 you could provide a little bit more detail: When it is  
9 expected to end, when you will have a contract or the  
10 finalized pricing, et cetera.

11 MS. PAGE: Sure. So, actually, we have just finished  
12 that process recently, within the last few weeks, and we  
13 have now signed the contract.

14 MR. RUBENSTEIN: Are you able to provide the total  
15 cost of the AMI program, regardless of the rate period, if  
16 it flows into the next rate period?

17 What is the total cost of the project -- the program?  
18 You can just do it by undertaking. I don't mean this on  
19 the spot, here.

20 MS. PAGE: Yes, I mean we've got \$201 million in the  
21 forecast period for this program.

22 MR. RUBENSTEIN: Yes. I think my question is  
23 regardless of the rate period. I just want to understand  
24 what the total cost is.

25 MS. PAGE: Okay, yes, because we're starting this  
26 year, so, yes, I'm going to have to take that back to get  
27 the additional costs for 2024.

28 MR. MURRAY: That will be undertaking JT3.9.

1           **UNDERTAKING JT3.9: REFERENCE: 2B-SEC-64E, TO PROVIDE**  
2           **THE TOTAL COST OF THE AMI PROGRAM, REGARDLESS OF RATE**  
3           **PERIOD, IF IT FLOWS INTO THE NEXT RATE PERIOD.**

4           MR. RUBENSTEIN: Considering that you've just  
5 finalized the process, for the purposes of the budget in  
6 the application, what did you use or how did you determine  
7 what the project costs were going to be? What was the  
8 basis of that forecast?

9           MS. PAGE: Project costs were determined based on  
10 industry averages, so we did do a technical study prior to  
11 estimating the costs of the project. And let me just refer  
12 you --

13          MR. RUBENSTEIN: Is that the Util-Assist report?

14          MS. PAGE: Yes. So, in that report, it was -- or  
15 during discussions, it was information was made available  
16 on basic pricing. We have got prices from different  
17 manufacturers, so we were able to sort of come up with a  
18 range of pricing for the meter, itself. To that we added  
19 labour costs on for the implementation, and, again,  
20 speaking with different consultants, we came up with an  
21 average for what the integration cost would be for the  
22 systems and the consultants.

23          MR. RUBENSTEIN: Now that you have the signed  
24 contract, how does the, what I'll call, the more updated  
25 2025 to 2029 costs 2019 costs compare to what you had built  
26 into the application budget?

27          MS. PAGE: We now have the costs for the meters and  
28 they came in just slightly under what we had budgeted.

1 MR. RUBENSTEIN: Can I ask you, can you provide more  
2 details? If I asked you, by way of undertaking, to provide  
3 the 2024 to 2029 costs based on the most updated  
4 information for each of those years, are you able to do  
5 that?

6 MS. PAGE: Are you asking for the costs to be -- I  
7 mean in the last undertaking you asked for costs from '24  
8 to '29, are you asking for it now to be -- those costs to  
9 be more broken down by sort of meter and labour versus just  
10 the total cost of the program?

11 MR. RUBENSTEIN: Well, my first question was regards  
12 of rate term. You may expand past 2029, that's a separate  
13 question.

14 Now I want to understand, now you have finalized  
15 information with the contract, so you have the better  
16 information. I want to understand how that compares to,  
17 essentially, the costs that are included in this  
18 application, and that would include 2024, because you have  
19 some 2024 costs that obviously flow into rates beginning in  
20 2025.

21 MS. PAGE: Okay. So, the RFP we did was solely for  
22 the meters. We are working on the RFP now for the system  
23 integration component of it, so that cost we do not have.

24 MR. RUBENSTEIN: Well, based on the best information  
25 you have now with the contract, can you provide 2024 to  
26 2029, what I'll call the more up-to-date program costs?

27 MR. KEIZER: So, you're just asking to update the  
28 number based upon the new metering costs?

1 MR. RUBENSTEIN: Yes.

2 MR. KEIZER: Is basically what you're asking?

3 MS. PAGE: Yes, we can do that.

4 MR. MURRAY: That will be undertaking JT3. 10.

5 **UNDERTAKING JT3.10: TO PROVIDE UPDATED PROGRAM COSTS,**  
6 **2024-2029, BASED UPON THE NEW METERING COSTS**

7 MR. RUBENSTEIN: Can I ask you to go to 2B-SEC-52.

8 This is with respect to the Gartner IT cost benchmarking  
9 study. And in part B of that question -- sorry, in part C  
10 we had asked you, my apologies, part C we asked how many  
11 companies that were included in the custom peer group and  
12 the ITKMD utilities peer group are, and then we provided  
13 you with various breakdowns. And you provided that  
14 information, or Gartner provided that information, with  
15 respect to the custom peer group, but not the ITKMD group.  
16 Can you provide that information, or more accurately, ask  
17 Gartner to provide that information?

18 MS. WOO: Let me just bring it. Subject to check,  
19 it's a question for Gartner, but the ITKMD is a quite large  
20 group, so let me just see if I could, in their benchmark,  
21 let you know how many utilities included in the ITKMD  
22 group.

23 MR. RUBENSTEIN: Well, I can tell you, there's 123  
24 based on the evidence.

25 MS. WOO: I think that would be a question for Gartner  
26 to see if they can.

27 MR. RUBENSTEIN: Well, can you ask --

28 MR. KEIZER: We'll undertake to ask Gartner if they

1 can provide it in accordance with what you ask for in SEC-  
2 52.

3 MR. MURRAY: So, I'll mark that as undertaking JT3.11.  
4 **UNDERTAKING JT3.11: REFERRING TO 2B-SEC-52C, THE**  
5 **GARTNER IT COST BENCHMARKING STUDY, TO PROVIDE THE**  
6 **INFORMATION WITH RESPECT TO THE CUSTOM PEER GROUP BUT**  
7 **NOT THE ITKMD GROUP.**

8 MR. RUBENSTEIN: In part F of that interrogatory we  
9 had asked, for each functional area, please provide the  
10 full maturity level description criteria. And what it  
11 appears that has been provided is a description of each  
12 functional level. But what we were trying to get at is for  
13 each maturity level what the descriptions are. In the  
14 report it will say if you're a 4, what that means, but it  
15 doesn't tell you what a 5 is, and what a 1, 2, and 3 are,  
16 and that's what we were looking for. Can you ask Gartner  
17 to provide that information?

18 MR. KEIZER: We'll ask Gartner to provide the  
19 information.

20 MR. MURRAY: That will be undertaking JT3.12.  
21 **UNDERTAKING JT3.12: REFERRING TO 2B-SEC-52F, TO**  
22 **PROVIDE DESCRIPTIONS FOR EACH MATURITY LEVEL**

23 MR. RUBENSTEIN: In part G -- back up, in the report  
24 there is talks about the top 25 improvement opportunities,  
25 and we asked you in that question to address how Toronto  
26 Hydro plans to address each of the top 25 opportunities.  
27 And you provide a response, but I'm not sure it answers the  
28 question that we were asking.

1           Essentially, what I am unable to take away from the  
2 response here, and when I look at those opportunities,  
3 which ones are actually being addressed in the plan?

4           MS. WOO: So, maybe before we go into the details of  
5 the '25, I wanted to highlight that this benchmark is to  
6 help validate Toronto Hydro's information technology  
7 investment strategy. It helps to validate our IT OT  
8 capital program. So, it's not the only piece of  
9 information that we use to create our overall plan. If we  
10 could turn to our Gartner benchmark, and I'll bring up that  
11 table there, the top 20. Which did we have a page number?  
12 Page 55. Page 55 on that table.

13           As I have mentioned as part of our IT investment  
14 strategy, we follow an ETP process, this benchmark was done  
15 at a snapshot in time. So, what we do as part of our ETP  
16 processes, every year we relook at our portfolio projects,  
17 we look at our roadmap and we try to prioritize what's most  
18 important for Toronto Hydro.

19           But I could say that the top three opportunities  
20 identified here, it is part of our data and advance data  
21 analytics, and we are focusing on at least the top three in  
22 the upcoming year. As we have addressed it in the IR to be  
23 SEC-52, question G, we try to give examples here about the  
24 data in the area of data analytics by improving reporting,  
25 data sharing, and making data more accessible. You can  
26 find it in exhibit 2B, section E 8.4.3.2, page 13. That  
27 will be an example of a mention of how our plan is being  
28 validated by Gartner.



1 MR. RUBENSTEIN: So, what I'm going to ask you just by  
2 undertaking, is if you -- we're talking about those three,  
3 but there's 25 on the list. I'm just trying to understand  
4 -- I guess maybe you've done them since the report, but  
5 also if you could provide a more comprehensive answer to  
6 the question that was asked for each of the 25, let us know  
7 which ones have been dealt with, are included in the plan  
8 and with which ones are not?

9 MS. WOO: All the top 25 as you see here, are going to  
10 be part of our consideration of our next five years.  
11 However, as I mentioned, we don't -- when we start  
12 execution of these projects, we create business cases, but  
13 we do it closer to the start of execution, so what's  
14 important for at this point in time may be slightly  
15 different by what's important three years from now. So,  
16 it's important to go through the governance process to  
17 prioritize what's important. But all 25 of these are in  
18 our high level road map for the next five years.

19 MR. RUBENSTEIN: Okay. Thank you very much. Can I  
20 ask you to go to 2B-Staff-261. And it's with respect to  
21 the EDC project spending. And it shows the forecast  
22 spending, 2025 to 2029. And I couldn't find anywhere --  
23 are you bringing in service any of this work before the  
24 completion of the EDC?

25 MR. HOMSMAN: Sorry?

26 MR. RUBENSTEIN: Sorry, are you bringing into service  
27 for rates purposes, any of the spending before the  
28 project's completion in 2029?

1 MR. HOM SMA: You're talking about a new electrical  
2 service to support the data centre?

3 MR. RUBENSTEIN: Well, I don't -- I mean, you're  
4 building a data centre, so I'm not --

5 MR. HOM SMA: Sorry, are you saying like, bring in  
6 assets into service, like capitalize them? Or a service as  
7 in a new electrical service?

8 MR. RUBENSTEIN: No. I am talking about capitalizing  
9 for rate purposes.

10 MR. HOM SMA: Yeah. There is nothing planned for 2024.

11 MR. RUBENSTEIN: Well, no, no. But for 2025 -- you  
12 are showing this on Capex basis, and I couldn't find an  
13 equivalent table that shows this on an in-service basis.  
14 What is the pattern of in-servicing of the expenditures?

15 MR. HOM SMA: Yes. So that project, we look for ways  
16 to break it down in functional components from a facilities  
17 project standpoint. Most of it will be ISA'd in 2029.

18 MR. RUBENSTEIN: Is there anywhere in the table -- and  
19 I thought there was on the record, but I actually couldn't  
20 find it as I was preparing for this.

21 Is there a version of the appendix 2AA, which is the  
22 capital expenditures, that encompasses things that this is  
23 panel is responsible for, but other panels that show it on  
24 an in-service additions basis, not an capital expenditures  
25 basis? And, if not, could you provide one?

26 MR. KEIZER: Sorry, that shows with this project? Or  
27 every project?

28 MR. RUBENSTEIN: Every project. I mean, the 2AA

1 spending, which is on a program basis, but on an in-service  
2 basis? I thought it was on the record, but I am actually  
3 not sure. I couldn't find it.

4 So, if not, could that be provided?

5 MR. KEIZER: Let me take that back. We will obviously  
6 -- I have to speak with regulatory as to what can and can't  
7 be done. But let's take it under advisement that we will  
8 consider it and deal with it, if we can.

9 MR. RUBENSTEIN: Okay. Can I go to 2B-Staff-263?

10 MR. MURRAY: Just before we do that, do we want to  
11 give that an undertaking? Or do you want to just take it  
12 back, at a break, and advise later on in terms of your --  
13 the ability of Toronto Hydro to do that?

14 MR. KEIZER: Can we do it at the break? And then I  
15 can advise Mr. Rubenstein, and we can deal with it from  
16 there.

17 MR. MURRAY: That works.

18 MS. WOO: Maybe just to follow up on that one, if we  
19 turn to exhibit 2B, section E8.1, page 21? The very last  
20 sentence actually says:

21 "The estimated in-service date for the project is  
22 2029."

23 So it is in our evidence.

24 MR. KEIZER: That's just with respect to the EDC,  
25 right?

26 MR. RUBENSTEIN: Yeah. And then, just to be clear --  
27 and so what you are saying, at least there's nothing that -  
28 - there's no in-service amounts until 2029, for this.

1 Right?

2 MS. WOO: Correct.

3 MR. RUBENSTEIN: Can we go to 2B-Staff-263, part B?

4 And in the last paragraph of this response, Toronto Hydro  
5 says -- this is on page 3:

6 "In the unfortunate event that the parties oppose  
7 the custom funding request for OM&A, and the OEB  
8 is inclined to entertain such a request, Toronto  
9 Hydro would seek alternative relief for a generic  
10 account to capture variances for cloud-related  
11 costs, implementation and subscription to ensure  
12 the utility is able to fund these prudent and  
13 necessary expenditures and reduce the financial  
14 barriers to adoption of cloud-based solutions."

15 Do you see that?

16 MS. WOO: Yes, I see that.

17 MR. RUBENSTEIN: I just want to make sure I  
18 understand. As I understand, the Board already has a  
19 generic account. So would this be different? Is an  
20 "alternative relief" different than what would be captured  
21 by the existing account?

22 MR. KEIZER: I think this is probably best addressed  
23 with panel 3.

24 MR. RUBENSTEIN: Okay. In part D, you were asked  
25 about cloud computing solutions with respect to the EDC.  
26 And there are interrogatories. And in the underlying  
27 evidence, it talks about how you did not consider cloud-  
28 based solutions for a number of reasons, that you thought

1 it was inappropriate for the EDC. There's a bunch of risks  
2 that are talked about in the underlying evidence. There's  
3 reliability and operational risks.

4 Understanding that, did you ever assess that if there  
5 was a cloud-based solution for the EDC, instead of building  
6 an EDC, what the cost would be, at a high level?

7 MS. WOO: Could you repeat the beginning of your  
8 sentence?

9 MR. RUBENSTEIN: Sure.

10 MS. WOO: Because we do have cloud-based solutions,  
11 but this question is specific to the EDC only, not just  
12 generic cloud-based solutions.

13 MR. RUBENSTEIN: Yes. With respect to the EDC, as I  
14 understand, and this is in the underlying evidence as well,  
15 there's a discussion about why you didn't consider a cloud-  
16 based solution instead of building an EDC. And, you know,  
17 you talk about, there was operational, there are other  
18 risks that didn't make it appropriate. And I understand  
19 that. But did you -- before you got to that point, did you  
20 ever consider what the cost differential would be, even at  
21 a high level, what the cost would be to do it entirely on a  
22 cloud-based or cloud basis?

23 MR. HOMSMAN: Just give me a second. I will refer you  
24 to the evidence.

25 So please go to E8.1 -- exhibit 2B, E8.1. The options  
26 analysis there does have high-level costs for a cloud-based  
27 solution. So it was considered, among other factors. I am  
28 just trying to find the page here; the tablet is slow.

1           So status quo option would be No. 1. If we scroll  
2 down, you'll find cloud-based. That is -- keep it at one  
3 location. Okay. If you go back up to 3?

4           MR. KEIZER: I think one page down, maybe? No.

5           MR. RUBENSTEIN: I didn't see costs. I see why you  
6 have -- I mean, there is evidence about why you thought it  
7 was inappropriate. But I didn't see any high-level costs;  
8 that's why I am asking.

9           Just so we don't spend a whole bunch of time, can I  
10 ask you to undertake? If it's in the evidence, you can  
11 point to it. But, if not, and they are in -- you did  
12 consider the costs, you can provide them for that  
13 alternative, for that option?

14          MR. HOM SMA: Yes. One hundred percent, we considered  
15 the cost --

16          MR. RUBENSTEIN: Okay.

17          MR. HOM SMA: ...for a cloud-based option, yes.

18          MR. RUBENSTEIN: So can you undertake to provide that?  
19 Provide the cost?

20          MR. HOM SMA: Sorry, I can't hear you.

21          MR. RUBENSTEIN: Can you undertake to provide the  
22 cost?

23          MR. KEIZER: If it's in the evidence. I think what we  
24 will do is we will point to it, if it's in the evidence and  
25 advise that it's there and where it is.

26          MR. RUBENSTEIN: And if it's not, to provide it.

27          MR. KEIZER: If it's not, then we'll have to provide  
28 it, if we can, and indicate why we cannot, if there's a

1 problem with it. And there may be confidentiality aspects  
2 to it, as well?

3 MR. MURRAY: That will be undertaking JT3.13.

4 **UNDERTAKING JT3.13: TO PROVIDE COST ESTIMATE FOR**  
5 **CLOUD COMPUTING EDC OPTION**

6 MR. RUBENSTEIN: Can we go to 2B-Staff-273. This is  
7 with respect to the \$11.5 million in regulatory compliance  
8 costs that are included in the budget.

9 MS. WOO: I Am sorry, is it okay to try to speak  
10 closer to the mic? It is just the fan behind us; we find  
11 it a little hard to hear. Sorry about that.

12 MR. RUBENSTEIN: Yeah, no problem, definitely no  
13 problem.

14 In part B, you were asked about the list of regulatory  
15 compliance initiatives expected in the test year. And you  
16 forecast six, with a estimated total cost of \$11.5 million.  
17 Do I have that right?

18 MS. WOO: That's correct.

19 MR. RUBENSTEIN: As I understand it, those costs are  
20 included in the IT software segment?

21 MS. WOO: IT OT capex, IT software segment. Correct.

22 MR. RUBENSTEIN: So I want to understand, and as I  
23 understand, this is just a forecast of things that may  
24 arise. You don't obviously know what those six regulatory  
25 initiatives are going to be. Correct?

26 MS. WOO: Correct.

27 MR. RUBENSTEIN: So what happens if the OEB approves a  
28 generic variance account for its new regulatory requirement

1 as it often does. How do ratepayers ensure that there's no  
2 double-counting? Is it you don't get to record until the  
3 seventh initiative? Can you explain?

4 MS. WOO: The forecast of -- sorry, I just lost it --  
5 of \$11.5 million is based on historical analysis. We  
6 looked at what -- the number of initiatives and the dollars  
7 we executed in the last five years and then the previous  
8 filing, as well. These projects, when we come to  
9 regulatory, compliance is non-mandatory. We don't have a  
10 guarantee whether some of these projects will be given a  
11 deferral account, and therefore we, based on our analysis,  
12 came up with this forecast.

13 MR. RUBENSTEIN: No, I understand. But I imagine  
14 there is a deferral account, which often happens -- I  
15 agree, not always, but often does happens. I just want to  
16 make sure I understand how the interrelationship would work  
17 here.

18 MR. KEIZER: I think this might be something that is  
19 better taken by panel 3, with the regulatory folks on  
20 panel 3.

21 MR. RUBENSTEIN: Were there any regulatory compliance  
22 costs included in the 2020 to 2024 budget in the last  
23 application, similar, like you've done here with the 11.5,  
24 with the six projects?

25 MS. WOO: If I could refer you to our evidence,  
26 Exhibit 2B, section E, 8.4 -- I'm just trying to find the  
27 page numbers. Give me a minute. Page 24, that's the 2020  
28 to 2024 actuals and bridge.



1 MR. RUBENSTEIN: Yes, my question is slightly  
2 different. In the last application, did the budget include  
3 regulatory compliance costs?

4 MS. WOO: Yes.

5 MR. RUBENSTEIN: Can you provide --

6 MS. WOO: We have the regulatory compliance segment,  
7 correct. Sorry I cut you off.

8 MR. RUBENSTEIN: Can you provide the similar -- the  
9 amount of costs that were included in the budget in the  
10 last application?

11 MS. WOO: Yes.

12 MR. KEIZER: That's fine. We can do that.

13 MR. MURRAY: That will be undertaking JT3.14.

14 **UNDERTAKING JT3.14: TO PROVIDE REGULATORY COMPLIANCE**  
15 **COSTS INCLUDED IN THE 2020 TO 2024 BUDGET IN THE LAST**  
16 **APPLICATION.**

17 MR. RUBENSTEIN: Can I go to 1B-SEC-28? This is with  
18 respect to the UMS benchmarking study, which I was told to  
19 direct those questions to you. Can we go to part E? So,  
20 in that question, we asked: Using the same methodology  
21 used to complete Appendix F, for each unit of measure,  
22 provide Toronto Hydro's actual unit cost for each year  
23 between 2020 and 2023 and forecasts for 2024 to 2029.

24 And then, at line 16, you say:

25 "Toronto Hydro is unable to forecast the unit  
26 costs for 2024 to 2019 as the unit-cost  
27 methodology utilizes ISA data from completed  
28 projects."

1 I just want to understand that. Based on my  
2 understanding of the discussion I had on panel 1, projects  
3 are forecasted based on unit costs, you know, especially  
4 with the programmatic programs, which are the make-up of  
5 most of the projects or most of the units measures in the  
6 UMS study. So it was unclear to me why, based on forecast  
7 costs and forecast unit costs and whatever increases are  
8 provided to that, you were not able to provide unit costs  
9 for 2024 to 2029.

10 MR. NASSO: So, if we go back to the UMS study and the  
11 way that it was completed, the way that it was completed  
12 was looking at projects between 2020 and 2022, completed  
13 projects. So we don't -- if we're following the same  
14 format, same process, we don't have that to give you '25 to  
15 '29.

16 MR. RUBENSTEIN: Well, of course you don't have  
17 actuals. That, I understand, but I was a bit unclear why  
18 then you couldn't use the forecast information that you  
19 have, actual ISA, to forecast on the same basis as the  
20 study, essentially. Because, I mean, the difference being,  
21 there, it aggregates all pole replacements that may play in  
22 different programs, right, as compared to the capital plan,  
23 you know; you have -- there are different programs where  
24 you are doing pole replacements. But it's not clear to me  
25 why you couldn't do it with the forecast information that  
26 is included in the application.

27 MR. NASSO: The forecast is programmatic, so I do not  
28 have the exact projects that would tell me how many poles

1 within there, so it would be very difficult to do.

2 MR. RUBENSTEIN: But I understood that the budget was  
3 set for the programmatic projects on a unit cost. You  
4 don't know the exact projects, obviously, but you are  
5 forecasting pole replacements at X dollars a pole, so it's  
6 unclear to me, then, why you couldn't just use forecast  
7 information to respond to the interrogatory. Maybe I'm  
8 missing something.

9 MR. KEIZER: And maybe -- and I don't know if I will  
10 muddy the waters, but maybe I can chime in, and maybe the  
11 witness can correct me if I'm wrong. And, if we don't  
12 know, then we will end up taking it away as an undertaking.  
13 But my understanding from panel 1 this morning was that  
14 they forecast -- they made a forecast based upon historical  
15 unit costs and trends and other things, and there was a  
16 whole bunch of various aspects went into it.

17 But I think when you read this, the response, it's  
18 talking about a forecast of the unit costs, and I think  
19 what the witness is saying is: I can't forecast the unit  
20 costs because I have a program, but I use ISAs to actually  
21 generate it, so I'm not necessarily sure of all the  
22 completed ISAs over the forecast period, so I couldn't give  
23 you a reasonable forecast.

24 Is that correct?

25 MR. NASSO: That's correct.

26 MR. RUBENSTEIN: But I'm confused because the  
27 application and all the stuff we talked -- all the projects  
28 that panel 1 was responsible for actually includes units,

1 and the budget is built up based on a forecast for most of  
2 the programmatic programs, based on a unit cost to complete  
3 that unit of work. So it's unclear why. Well, maybe the  
4 best thing I could ask --

5 MR. KEIZER: Is for an undertaking?

6 MR. RUBENSTEIN: -- is for an undertaking to, using  
7 forecast information, to complete the interrogatory, and,  
8 if you can't, provide a little more detail of the  
9 explanation of, maybe we're just missing each other here,  
10 in the response.

11 MR. KEIZER: Yes, no, that's fair enough. So, if we  
12 can, we will, but, if we can't, we'll explain as to why we  
13 can't and clarify any issues related to panel 1 and  
14 panel 2.

15 MR. MURRAY: That will be undertaking JT3.15.

16 **UNDERTAKING JT3.15: USING FORECAST INFORMATION, TO**  
17 **RESPOND TO 1B-SEC-28**

18 MR. RUBENSTEIN: Thank you very much, panel. Those  
19 are SEC's questions.

20 MR. MURRAY: I see it's 11:56. We had sort of  
21 scheduled a lunch break for a few minutes from now, so my  
22 inclination would be to go on to the next witness for  
23 maybe, next questioner for 15 or so minutes, 15, 20 minutes  
24 and then take a break when it makes sense. So, Ms. Grice,  
25 that would be you.

26 **EXAMINATION BY MS. GRICE:**

27 MS. GRICE: Okay. Thank you. Good morning, panel.  
28 Shelley Grice, representing AMPCO. Okay. My first

1 question is regarding 2B-AMPCO-23. Okay. In this  
2 question, we asked for the percentage of internal and  
3 external resources for each of the years 2020 to 2024,  
4 allocated to capital programs and maintenance programs.

5 And, in the response, you provided two tables, one for  
6 capital and one for maintenance. And so I just had a  
7 question just with respect to the first table and the  
8 category of external costs. Can you just confirm: Is that  
9 simply a labour cost, or are there other inputs into  
10 external costs?

11 MR. NASSO: So the external costs would include labour  
12 but could include items like material if they're doing  
13 civil-type work.

14 MS. GRICE: Okay. Okay, thank you. And then, if you  
15 look at the response to part A in the last sentence, it  
16 says: Additionally, Toronto Hydro notes that, besides  
17 internal and external costs, other costs for capital and  
18 maintenance programs primarily include material purchased,  
19 which is excluded from tables 1 and 2 below.

20 So can you just reconcile the comment you just made  
21 about --

22 MR. NASSO: Yes. So the material there they're  
23 referring to is electrical material.

24 MS. GRICE: That's the material purchased, is  
25 electrical?

26 MR. NASSO: That's correct.

27 MS. GRICE: And you're saying civil materials are  
28 included.

1 MR. NASSO: Toronto Hydro does not complete civil  
2 work, and we use external contractors to do so, so they  
3 purchase whatever is required to complete their work.  
4 That's what I'm referencing.

5 MS. GRICE: Okay. Thank you. And then, to get to a  
6 hundred percent here, so, if we were to add the civil  
7 material costs -- no, sorry, I have that opposite, sorry --  
8 the electrical material costs, would we get to a hundred  
9 percent in the table, or is there some other category of  
10 costs that go into capital and maintenance programs?

11 MR. NASSO: There could be some other administrative-  
12 type costs in there, as well, so it would be close, but it  
13 wouldn't be a hundred percent.

14 MS. GRICE: Okay. Is it possible to get table 1 and  
15 table 2 on a dollar basis? So, that what it would look  
16 like is it would have -- and I will just list the  
17 categories. So, it would be internal labour, external  
18 labour, and that one includes civil materials. Then  
19 vehicle costs, and then the balance of material costs, and  
20 anything else that adds up to a hundred percent. Would it  
21 be possible to get the table on that basis?

22 MR. NASSO: Yes. We can take an undertaking to do  
23 that.

24 MS. GRICE: Okay, thank you.

25 MR. MURRAY: That will be undertaking JT3.16.

26 **UNDERTAKING JT3.16: TO PROVIDE THE DATA IN TABLE 1**  
27 **AND TABLE 2 ON A DOLLAR BASIS**

28 MS. GRICE: Okay. And then just with respect to part

1 B of the question, we were just asking about resource  
2 assumptions internal and external for 2025 to 2029. So,  
3 just based on the undertaking that you just took, would you  
4 be able to provide a table on the same basis that you just  
5 provided for 2025 to 2029, so that would included forecast  
6 internal labour, forecast external labour, forecast vehicle  
7 cost and forecast materials and any other cost that add to  
8 a hundred percent. Would you be able to do that?

9 MR. NASSO: Can you repeat your question, please?

10 MS. GRICE: Sure, so it is just whether or not you can  
11 provide the same table that you're providing for capital  
12 and maintenance for 2020 to 2024, if you could provide the  
13 same two tables for capital programs and maintenance  
14 programs but for 2025 to 2029?

15 MR. NASSO: Yes, we can.

16 MR. MURRAY: That will be undertaking JT3.17.

17 **UNDERTAKING JT3.17: TO PROVIDE THE TWO TABLES FOR**  
18 **CAPITAL PROGRAMS AND MAINTENANCE PROGRAMS SHOWING**  
19 **2025-2029**

20 MS. GRICE: Okay. Thank you. My next question is  
21 AMPCO-29. I'm looking at part A of the response. So, in  
22 part A we asked for Toronto Hydro to explain what triggers  
23 a project variance report, and provide the number of  
24 project variance reports over 2020 to 2023. And in table 2  
25 below, it shows the number of project variance reports per  
26 year, and I note it's about 140 a year. So, we certainly  
27 don't want to get 140 project variance reports, but I  
28 wonder if you would be able to provide for each of the

1 years 2020 to 2023, copies of project variance reports for  
2 projects greater than 1 million dollars in value, where the  
3 cost variance is 30 percent or greater compared to the  
4 original estimate. Would you be able to provide those  
5 documents?

6 MR. NASSO: So, the question is from the PVAs, you're  
7 looking for any variance that is greater than 30 percent  
8 and a million dollars?

9 MS. GRICE: And just related to cost, nothing else.

10 MR. KEIZER: Sorry, and you're talking about -- sorry,  
11 above a million dollars or a million dollars?

12 MS. GRICE: Yes, the value of the project, a million  
13 dollars and greater.

14 MR. KEIZER: And plus 30 percent variance?

15 MS. GRICE: Yes.

16 MR. KEIZER: Can I ask why particularly 30 percent  
17 variance, but.

18 MS. GRICE: Well, just we were just trying to narrow  
19 down the number of documents you would have to prepare if  
20 we went at 20 percent it --

21 MR. KEIZER: I understand. I'm not sure how many  
22 documents that actually entails. Or...

23 MR. NASSO: We don't have that information, subject to  
24 check. This is the variance that's greater than a million  
25 greater than 30?

26 MS. GRICE: No, no. Sorry, just the project itself,  
27 has a project value or estimate of a million dollars or  
28 greater, and then any project variance reports where the



1 project costs went greater than -- equal to or greater than  
2 30 percent of the original estimate. And just to clarify,  
3 that would include if there was for one project, say, four  
4 project variance reports that totaled 30 percent, that  
5 those would be included as well. So, meaning if you could  
6 have a project variance report across years, that might be  
7 less than 30 percent, but when you add it up for the  
8 project it's greater than 30 percent.

9 MR. KEIZER: If it was a multiyear project?

10 MS. GRICE: It was a multiyear project, yes.

11 MR. NASSO: So, I mean, within the project you have a  
12 high level estimate, you have a detailed estimate, and then  
13 you go into instruction and we get a PVA. What stage are  
14 you looking at?

15 MS. GRICE: The life of the --

16 MR. KEIZER: In reference to the PVA.

17 MS. GRICE: I'm sorry, I didn't hear the question.

18 MR. KEIZER: You're asking a question in reference to  
19 the PVA?

20 MR. NASSO: Right. Okay.

21 MS. GRICE: The project variance report, yes.

22 MR. KEIZER: I think we could.

23 MR. NASSO: I think it can be done. We would have to  
24 take a look to see the number of projects, subject to  
25 check, we can validate that.

26 MS. GRICE: Okay. And I just have just one other part  
27 of the undertaking. When you get that list together, if  
28 you could identify which projects required formal approval

1 of the change in cost from your senior management and  
2 executive team before proceeding. Because you say in the  
3 evidence that's part of your internal process. Is that for  
4 certain projects, depending on what the cost schedule or  
5 scope variance is?

6 MR. NASSO: I think what we say in the evidence, or in  
7 the last part, is that all projects go through a governance  
8 process.

9 MS. GRICE: Yes, unfortunately my wording on that  
10 question was incorrect. I'm referring back to the preamble  
11 of the question, which is page 1 of AMPCO-29, where it says  
12 in the last sentence:

13 "Depending on the magnitude of a required change  
14 to a project's cost schedule or scope of work,  
15 the change may require a detailed assessment of  
16 alternatives and formal approval from senior  
17 management and the executive team before  
18 proceeding."

19 So, I meant to word part H of my question to provide  
20 the changes that had to go to senior management, so I'm  
21 just applying it now to this undertaking. If you could  
22 identify in those project variance reports which ones had a  
23 change in cost that required additional senior management  
24 and executive team approval?

25 MR. MURRAY: Perhaps because it's been a lot of back  
26 and forth, can we just read back the undertaking for the  
27 record, because I know the court reporter has asked that  
28 sometimes the undertakings aren't clear. This strikes me

1 as one where there was as lot of back and forth so if we  
2 can just maybe read back clearly on the record, and then I  
3 can give it a number.

4 MS. GRICE: Okay. So, it would be for each of the  
5 years 2020 to 2023 to provide copies of project variance  
6 reports for projects greater than \$1 million, where the  
7 cost variance is 30 percent or greater.

8 MR. NASSO: So, one million and 30 percent, if I  
9 understand that correctly?

10 MS. GRICE: Yes, it's a variance in cost of 30  
11 percent.

12 MR. KEIZER: Yes, The project value is \$1 million and  
13 the variance is 30 percent.

14 MS. GRICE: Okay. And then that would include if  
15 there were multiple reports for a project, so this would be  
16 a multiyear project, that had individual project variance  
17 reports, we would be looking for those that have an  
18 aggregate variance of greater than 30 percent from the  
19 original budget.

20 And then the last thing would be which of the project  
21 variance reports provided required approval from senior  
22 management and executive team due to the change in cost?

23 MR. MURRAY: And that undertaking will be given the  
24 number JT3.18.

25 **UNDERTAKING JT3.18: FOR EACH OF THE YEARS 2020 TO**  
26 **2024, TO PROVIDE COPIES OF PROJECT VARIANCE REPORTS**  
27 **FOR PROJECTS GREATER THAN \$1 MILLION, WHERE THE COST**  
28 **VARIANCE IS 30 PERCENT OR GREATER, INCLUDING IF THERE**

1           WERE MULTIPLE REPORTS FOR A PROJECT, SO A MULTIYEAR  
2           PROJECT THAT HAD INDIVIDUAL PROJECT VARIANCE REPORTS;  
3           TO ADVISE WHICH OF THE PROJECT VARIANCE REPORTS  
4           PROVIDED REQUIRED APPROVAL FROM SENIOR MANAGEMENT AND  
5           EXECUTIVE TEAM, DUE TO THE CHANGE IN COST.

6           MR. KEIZER: That's fine. We'll look at what's  
7 doable, and if we can do it then we will, if we have  
8 problems in doing it, we will, obviously, advise in the  
9 undertaking response.

10          MS. GRICE: Okay. Thank you very much. I think I can  
11 just keep going and finish. Okay. AMPCO-48, please.

12          So, in this question we asked for the specific  
13 accomplishments over 2020 to 2025 related to Toronto  
14 Hydro's net zero by 2040 strategy and the corresponding  
15 costs.

16          And I'm just looking at the third item down, which is  
17 the introduction of electric vehicles. And you provide  
18 there what the average incremental cost is per heavy duty  
19 unit and per light duty unit. And I just want to confirm,  
20 are the costs related to electric vehicles, are they  
21 included in 2B-E8.3, are they included in that evidence for  
22 the capital dollars?

23          MR. HOMSMAN: Sorry, is the question does our budget  
24 account for the premium?

25          MS. GRICE: Actually, does it account for the total  
26 cost of electric vehicles purchased between 2020 and  
27 2025 -- or 2024? Like, if I go to exhibit E8.3, and you've  
28 got a budget there of dollars for what you are going to

1 spend on fleet for 2020 to -- 2025 to -- I am sorry.

2 MR. HOM SMA: Okay. That's where I am getting  
3 confused. Okay.

4 MS. GRICE: I am sorry.

5 MR. HOM SMA: Yes.

6 MS. GRICE: Now I've confused it. I am sorry. At  
7 that exhibit, you give how many dollars you spent from 2020  
8 to 2024, and I think it's \$36.7 million. Does that  
9 \$36.7 million included electric vehicles? Or is it  
10 accounted for in some other place in your budget?

11 MR. HOM SMA: Sorry, are we talking about the 2020 to  
12 2024 period? Or the 2025 to 2029 period?

13 MS. GRICE: Yes, the 2020 to 2024 period.

14 MR. HOM SMA: Okay. And, sorry, you are referring back  
15 to the fleet evidence, under 8.3?

16 MS. GRICE: Because it gives the 2020 to 2024 total  
17 spend, of \$36.7 million. So I just wondered if electric  
18 vehicles are in that amount?

19 MR. HOM SMA: So that \$36.7 million was the original  
20 budget. I just want to validate that that was the actual.  
21 So I just need to take some time here.

22 MS. GRICE: Okay.

23 MR. HOM SMA: But, in a general sense, we are budgeting  
24 for EV conversion. That is our goal.

25 MS. GRICE: Okay. So I guess what I wanted to ask,  
26 then, if it is in the \$36.7 million, what you've already  
27 spent on electric vehicles over that period, could you  
28 provide how much you've spent, 2020 to 2024, on electric

1 vehicles?

2 MR. HOMSMA: So you would like the -- a breakdown of  
3 EV vehicles, and from the 2020 to 2024 period, and the  
4 cost, the actual purchase cost?

5 MS. GRICE: Yeah. Just the actual cost, yes.

6 MR. KEIZER: That's fine.

7 MR. MURRAY: That will be undertaking JT3.19.

8 **UNDERTAKING JT3.19: TO PROVIDE A BREAKDOWN OF EV**  
9 **VEHICLES, 2020-2024, INCLUDING ACTUAL PURCHASE COST.**

10 MS. GRICE: Okay. Now, if we can please go to AMPCO-  
11 65. And in this interrogatory, we just asked a bunch of  
12 questions about how many -- about the number of vehicle  
13 replacements by type, by year, and the cost by year in  
14 question part A. And we asked it for heavy-duty and for  
15 light-duty vehicles.

16 And the only thing I found was when I went through the  
17 actual data in table 6 and 7 in this response, there were  
18 some discrepancies between it and the original evidence at  
19 exhibit E8.3, tables 4 and 5. And then SEC interrogatory  
20 2B-77.

21 So there seems to be quite a few discrepancies, and I  
22 just wondered if you could reconcile those three pieces of  
23 evidence?

24 MR. KEIZER: By way of undertaking?

25 MS. GRICE: By an undertaking, yes.

26 MR. KEIZER: Yes. And can we get the references,  
27 again?

28 MS. GRICE: Sure, sure. So the original evidence

1 would be 2B, E8.3, table 4 on page 11, and table 5 on page  
2 12, compared to 2B-AMPCO-65, part A, and 2B-SEC-77.

3 MR. KEIZER: Okay.

4 MR. MURRAY: That will be Undertaking JT3.20.

5 **UNDERTAKING JT3.20: TO RECONCILE THE EVIDENCE AT 2B,**  
6 **E8.3, TABLE 4 ON PAGE 11, AND TABLE 5 ON PAGE 12,**  
7 **COMPARED TO 2B-AMPCO-65, PART A, AND 2B-SEC-77.**

8 MS. GRICE: Okay. Thank you. And I just have one  
9 more question, and that is AMPCO-66C. So this is where you  
10 show your replacement costs for EV and hybrid vehicles for  
11 2024 to 2029. I just wanted to confirm that that amount is  
12 in the budget as part of E8.3 for fleet vehicles?

13 MR. HOM SMA: Yes, it is.

14 MS. GRICE: Okay. Okay. That's great. Thank you  
15 very much. Those are my questions.

16 MR. MURRAY: Thank you, very much. Ms. Grice. I think  
17 now would be a good time to take the lunch break. And I  
18 would ask everyone to be back by one o'clock.

19 --- Luncheon recess at 12:14 p.m.

20 --- On resuming at 1:03 p.m.

21 MR. MURRAY: I believe next on the list for the  
22 questioning is Ms. Girvan of CCC. The floor is yours.

23 MS. GIRVAN: Thank you. Good afternoon, panel. My  
24 name is Julie Girvan, and I represent the Consumers Council  
25 of Canada.

26 **PRELIMINARY MATTERS:**

27 MR. KEIZER: Sorry, Ms. Girvan. Can we just have a  
28 moment? We do have one preliminary matters, and that is a

1 minor correction from this morning. Sorry, I apologize.  
2 But, if we could do that, and then maybe Ms. Girvan can go  
3 ahead.

4 MR. MURRAY: Certainly, Mr. Keizer.

5 MS. WOO: Thank you. So I to talked about the cloud  
6 computing cost that got moved to the DVA account. I said  
7 the dollar was for November and December of 2023. It  
8 should be: The memo was released on November 2nd, but the  
9 computing cost is only starting December 1st onwards, so  
10 the cost is only for the month of December, the correction.

11 MR. MURRAY: Thank you. Ms. Girvan, over to you now.

12 **EXAMINATION BY MS. GIRVAN:**

13 MS. GIRVAN: Okay. Thank you. If you could, first  
14 turn to 1B-CCC-16 and, if you can, scroll down. There, in  
15 this section, thank you. So this is again a little bit  
16 about fleets and fleet, and it said, originally it said,  
17 there was a reduction in the period 2017 to 2023 of  
18 \$26 million related to fleet. So this is in the context  
19 of, I guess, efficiencies. And the interrogatory says that  
20 there was an error in the original evidence, and the  
21 \$26 million figure is now, if you scroll down, just the  
22 very bottom, it's \$39.6 million, I guess, or .7 million.  
23 So is that correct, that you found this error, that the  
24 savings over that period were \$39.7 million with respect to  
25 fleet? Is that correct?

26 MR. HOMSMA: Yes. When answering this interrogatory,  
27 we found the error, and we added that note at the bottom to  
28 include the additional savings.



1 MS. GIRVAN: Okay. So do you have a corresponding  
2 number included in the 2025 to 2029 revenue requirement  
3 that reflects savings related to fleet?

4 MR. HOM SMA: In terms of the savings, are you  
5 specifically speaking of reduction in fleet or just savings  
6 in fleet in a general sense?

7 MS. GIRVAN: Well, I'm just looking for a comparable  
8 number to the 39.7, whatever is included in that, and I  
9 think it's maybe number of units, but I'm not sure.

10 MR. HOM SMA: Yes. So those are vehicle units. You  
11 know, through our asset management program, as we replace  
12 vehicles, we decide whether we need to replace it or if we  
13 could just let it run its course and then not replace it.  
14 So, by us not replacing vehicles, we were able to find  
15 those savings.

16 MS. GIRVAN: Okay. Do you have projected savings in  
17 the forecast period related to this?

18 MR. HOM SMA: There is an interrogatory where we showed  
19 our projected vehicle counts. I just need to find it. But  
20 it won't show savings. It will just show our projected  
21 vehicle counts.

22 MS. GIRVAN: Okay, so you don't have a forecast  
23 savings during the rate plan term?

24 MR. HOM SMA: No, but it's also important to know that  
25 the conditions change for us, and, you know, as part of our  
26 meetings with our customers, our customers being the users  
27 of the vehicles, the counts that we purchase can change,  
28 so, for us to provide it, it would be a very high-level

1 estimate.

2 But, also, we do see that our vehicles have plateaued  
3 in terms of counts, and that's to service, you know, this  
4 application. Even in the evidence, I guess, through  
5 panel 3, you will see there are additional workers coming  
6 through, so we need to have vehicles. It would be very  
7 difficult for me to say what that reduction count will be  
8 because there are a lot of factors to consider between now  
9 and the actual purchase date.

10 MS. GIRVAN: Okay. Thank you. Could you please turn  
11 to 1B-CCC-42 and, if you could -- this, just to give you  
12 some context, this interrogatory sets out initiatives that  
13 Toronto Hydro undertook during the past rate plan period.  
14 And you've listed -- these are, I guess, productivity  
15 initiatives.

16 If you go down to the bottom, there's a chart where we  
17 asked for the cost of each of those programs and whether  
18 they were refunded by rates and what the forecast costs  
19 would be going forward.

20 I have a couple of questions. If you scroll down to  
21 the next page -- sorry, page 6, yes -- you've got process  
22 automation in there, and the costs in the previous period  
23 were \$32 million, and the costs in the other period are  
24 \$50 million.

25 What are the expected benefits associated with that  
26 \$50 million spend over the 2025 to 29? Did you include  
27 savings associated with process automation?

28 MS. WOO: Yes, there are definitely savings coming out

1 from the \$50 million. If I could refer you to our evidence  
2 -- give me a second to find it -- Exhibit 1B, Tab 3,  
3 schedule 1.

4 MS. GIRVAN: What page?

5 MS. WOO: Page 41. The initiatives in the process  
6 automation program will be part of the efficiency  
7 achievements shown in this section, 2.4.1.

8 MS. GIRVAN: Okay, so do you, though, have specific  
9 savings imbedded in your forecast related to that  
10 initiative? Like, do you have a number?

11 MS. WOO: So, if we turn to page 42 of the same  
12 evidence, we talked about over the next rate period -- at  
13 the bottom of this page, please:

14 "Over the next rate period, Toronto Hydro set a  
15 target to achieve approximately \$6.9 million in  
16 asset sustaining and quantify efficiency benefits  
17 per year by 2029."

18 MS. GIRVAN: But that's generally; that's not  
19 specifically related to the process automation. Is that  
20 correct?

21 MS. WOO: All the process automation initiative will  
22 be part of that number. It's not the entire 6.9 per year,  
23 but it is -- all of it will be part of, inclusive in, that  
24 \$6.9 million per year.

25 MS. GIRVAN: So you're spending \$50 million over the  
26 term to achieve savings that are somewhat embedded in that  
27 \$6.9 million?

28 MS. WOO: \$6.9 per year, times five.

1 MS. GIRVAN: Okay, but you can't estimate what the  
2 process automation is, what the number is?

3 MS. WOO: The details, we will not know until we get  
4 closer to executing the projects. If I have mentioned  
5 earlier this morning, we follow our IT investment strategy  
6 that follows the EPT framework, that we prioritize projects  
7 closer to the start of execution. But this is based on  
8 historical numbers. The \$6.9 million per year is something  
9 we thought is something that is a number that we could  
10 commit to, but we don't have the exact projects that we'll  
11 be doing in '25 to '29.

12 MS. GIRVAN: And how did you derive the 6.9?

13 MS. WOO: It is based on historical analysis. If you  
14 look at Figure 9 there, it shows an example of what we  
15 have achieved in 2020 to '24.

16 MS. GIRVAN: Okay. All right, thank you. If you  
17 could go back to the same interrogatory, I just wanted to  
18 ask the same question about customer experience.

19 MS. WOO: Sure.

20 MS. GIRVAN: So, in the previous period, you spent  
21 28.5, and now you're expected to spend \$25 million. Where  
22 do I find those costs in your forecast, and what are the  
23 associated benefits related to those costs?

24 MS. WOO: So the 2025 costs of \$25 million is part of,  
25 as you have seen there, Exhibit 2B, section E, 8.4 -- I  
26 don't think we need to jump to it; if we could, just stay  
27 in the IR, please -- and also Exhibit 4, Tab 2, schedule  
28 17. They are part of the IT software program, and also

1 because cloud is part of our OM&A, cloud computing in our  
2 Exhibit 4, Tab 2, schedule 17 is also part of the cloud  
3 computing is in that number.

4 MS. GIRVAN: Okay. And what are the savings  
5 associated with those expenditures forecast in the rate  
6 2025 to 2029?

7 MS. WOO: The 2025 to '29 savings or are we talking  
8 about 2020 to 2024?

9 MS. GIRVAN: '25 to '29.

10 MS. WOO: The savings is -- again, it will be part of  
11 the forecast, when it comes to customer experience, the  
12 savings usually will come from customer care and metering  
13 area, and part of it will also be from the efficiency  
14 achievement metrics.

15 MS. GIRVAN: Have you built that into your forecast?

16 MS. WOO: Yes.

17 MS. GIRVAN: And what amount did you build into the  
18 forecast?

19 MS. WOO: The customer care metering OM&A has embedded  
20 some of the benefits, but there are complexities into some  
21 areas might require more costs, there are savings in other  
22 areas, so we did not specifically identify a number in our  
23 '25 to '29 period. However, it's an aggregated cost when  
24 we look at our future cost for our OM&A for customer care.

25 MS. GIRVAN: So, for an expenditure like this, you  
26 don't do a business case?

27 MS. WOO: Business case we do for projects closer to  
28 the start of execution, as I have mentioned before. For

1 example, if we were to work on a project in 2024, we will  
2 be doing a detailed business case with costs, benefits, net  
3 present value, usually one year before the start of the  
4 project.

5 MS. GIRVAN: Okay. But you didn't do a business case  
6 with respect to this \$25 million that's identified here?

7 MS. WOO: We did not do a business case, because this  
8 25 million will be a set of projects, it's not going to be  
9 one program or one project, it's going to be multiple  
10 projects, and this number is based on detailed analysis,  
11 historical trends, historical analysis to come up with the  
12 25. Closer to the start of execution, the business cases  
13 will be documented and can be audited.

14 MS. GIRVAN: Okay. Could you please turn to CCC-1B  
15 number 49. If you could scroll down, there's a chart.  
16 Keep going. Yes, there's the chart. So, we know that you  
17 retained Innovative Research to do your customer  
18 engagement, then we asked about other customer engagement  
19 that you do a certain ongoing basis. And I wanted to ask  
20 you about the customer care and customer relation  
21 management. And it goes from 14 million in 2025 to  
22 17 million. Could you explain to me why we're seeing what  
23 I would call relatively significant increase in that aspect  
24 of your customer engagement?

25 MS. PAGE: Yes, if I can refer you to Exhibit 4, Tab  
26 2, schedule 14. The customer relationship management area  
27 is made up of the contact centre, which starts on page 35.  
28 So, it includes the contact centre, it includes our

1 escalations and special investigations group, and it  
2 includes our customer experience group.

3       The increase is primarily labour related, in that  
4 we're looking to increase for our customer experience area,  
5 that section is -- or that team is accountable for  
6 modernizing all of the customer care systems and processes  
7 that we use, and there's a number of new -- as Ms. Woo just  
8 spoke to, some of the 25 million will be for customer care  
9 projects that, you know, bring our systems more up to what  
10 our customers need from us as we go forward. So, there's  
11 an increase in labour there in order to implement those  
12 systems, develop the systems. And additionally, there's  
13 additional staff required to handle all of the data that is  
14 coming out of the new systems, bring customer insights from  
15 that data, and provide us some directional information for  
16 future growth and evolvement. Additionally, we are doing a  
17 little bit of in-sourcing in that area as well in our  
18 contact centre and filling some vacancies.       MS. GIRVAN:  
19 Okay. How many vacancies do you have now?

20       MS. PAGE: I don't have the exact number of vacancies  
21 in that particular segment, some of it is vacancies, and  
22 some of it will be the net new staff that I referred to.

23       MS. GIRVAN: Okay. Could you go back to the  
24 interrogatory, again, on that chart. Can you explain  
25 what's the customer care collection segment? What's that?

26       MS. PAGE: The customer care collection segment, so in  
27 this area we, you know, the costs includes the entire  
28 segment, but with respect to the engagement, it's referring

1 to the leap program that's managed through this collections  
2 group, but the entire group works on all of our collections  
3 related work for any account balances that are in arrears,  
4 are as I mentioned the financial assistance programs, the  
5 write-offs, the bad debt, those types of things.

6 MS. GIRVAN: Okay. And if you just scroll down,  
7 there's one more section. It's called asset and program  
8 management. It goes from 8.4 to 10.3, and it talks about  
9 using the City of Toronto's development pipeline. And can  
10 you explain why there's an increase of about \$2 million  
11 going from 2025 to 2029?

12 MR. NASSO: Sorry, can you please repeat the question?

13 MS. GIRVAN: Sure, can you explain to me what this is?  
14 Sorry, it says it's talks about the City of Toronto's  
15 develop pipeline. I'm just trying to understand  
16 activities, and then why there's an increase from 2025 to  
17 2029.

18 MR. NASSO: I think if we go to Exhibit 4, Tab 2,  
19 schedule 9, page 12, there will be some further detail.

20 MR. KEIZER: Well, while Mr. Nasso is looking that up,  
21 the other part of this is, Ms. Girvan, is it may have been  
22 something to -- may have been better to Mr. Huntley on  
23 panel 1, who is involved in the IESO process, and the  
24 system planning process related to solutions and the  
25 development. But so, we'll see where this witness can go,  
26 and if there's additional information, we'll have to  
27 probably take it by way of undertaking.

28 MS. GIRVAN: Okay.



1 MR. NASSO: I agree. This should be something for  
2 panel 1.

3 MS. GIRVAN: Okay. We can just leave that. I  
4 probably should have asked. It was -- it just came up in  
5 the context of this IR answer.

6 With respect to the chart that I was just referring  
7 to, could you provide the same chart in the same format for  
8 the period 2020 to 2024?

9 MR. KEIZER: That's fine.

10 MS. GIRVAN: Great, thank you. And I have one last  
11 question.

12 MR. MURRAY: Before we get there, can we give that a  
13 number?

14 MS. GIRVAN: Sorry, yes.

15 MR. MURRAY: That will be undertaking JT3.21.

16 **UNDERTAKING JT3.21: TO PROVIDE A CHART SIMILAR TO THE**  
17 **ONE AT EXHIBIT 4, TAB 2, SCHEDULE 9, PAGE 12 FOR 2020-**  
18 **2024.**

19 MS. GIRVAN: I'm trying to hurry. Just one last  
20 question. If you turn up 1B-CCC-50, and we asked about  
21 your response to letters of comment. I just wanted to  
22 clarify, there's an appendix that's about 7 pages, and it  
23 sort of describes your application. If you could scroll  
24 down. There. So, it says deer valued customer. So, were  
25 all the people that sent letters of comment sent this  
26 particular document? Is that what this means?

27 MR. KEIZER: I think this is probably a panel 3  
28 question, Ms. Girvan.

1 MS. GIRVAN: Okay. Thank you. Those are my  
2 questions.

3 MR. MURRAY: Thank you very much, Ms. Girvan. Next on  
4 the list, I believe, is Mr. Daube from DRC.

5 MR. DAUBE: Thank you, everybody, thank you. My name  
6 is Nicholas Daube, I'm on for the Distributed Resource  
7 Coalition, all my questions today are about 2B-DRC-9. And  
8 just a heads-up for the panel, but also for Mr. Keizer:  
9 These are all about cyber security, and obviously it is not  
10 my intention to get into any evidence that would compromise  
11 your efforts to combat cyber security. So I am always all  
12 ears with Mr. Keizer's interjections.

13 But, Mr. Keizer, if there's anything where you think  
14 we are straying into areas where we shouldn't, and should  
15 consider a confidential record, of course, please speak up.

16 MR. KEIZER: We will do our best, Mr. Daube. And I  
17 hope that you are also aware of where the confidential  
18 stuff is. I think you are -- have provided an undertaking  
19 as well. So...

20 MR. DAUBE: Yeah, sure. I meant it more as a courtesy  
21 than...

22 MR. KEIZER: No, no. We will both keep our ears  
23 attuned. Thank you.

24 MR. DAUBE: So let's go to response A, please. And  
25 the section of your answer on that first page that begins  
26 with the words, "The integration":

27 "The integration of DERs carries with it cyber  
28 security risks, particularly as such resources

1 start to incorporate intelligent capabilities and  
2 network capabilities."

3 And you give one example in the footnote. I am just  
4 wondering, what are the other risks that you believe will  
5 accompany DER integration?

6 MS. WOO: So, with more DERs, there are more edge  
7 technologies and more assets in the field, in the -- in our  
8 landscape and environment and in our operating environment.  
9 And therefore, from a cyber perspective, we -- it comes  
10 with risks. And, therefore, we have a very strong cyber  
11 framework, and practices that -- to protect our customer  
12 data and protect all our assets.

13 MR. DAUBE: Okay. So really, the risks that you are  
14 talking about here, it goes to the increased number of  
15 entry points, rather than a specific new category of risk?

16 MS. WOO: We currently do already have DERs, so I  
17 would not categorize it as a new category of risk. But the  
18 cyber security landscape is evolving, so I do believe in  
19 the next few years there could be new categories of risks  
20 that come with DERs. But also, with the volume increases,  
21 the cyber security risk also increases.

22 MR. DAUBE: On that point, do you have any specific  
23 new categories of risk that you are monitoring, that you  
24 are watching for at the moment?

25 MS. WOO: Maybe let me refer you to our evidence, if  
26 you could just give me a second to find it?

27 If we could turn to exhibit 1B, Tab 3, schedule 1,  
28 page 22? I just wanted to bring your attention to our

1 cyber security framework, which is aligning to the OEB CSF  
2 framework, and also to the NIST framework. So when we look  
3 at cyber security, we don't look at one asset at a time, or  
4 looking at a different penetration point. But we really  
5 need to look at five critical functions, identifying the  
6 threats and risks, protecting all of our assets, detecting  
7 if there is a threat or an incident, and then also  
8 responding and recovering.

9 So I would kind of focus more on a cyber security  
10 practice and cyber security investment in terms of this  
11 framework.

12 MR. DAUBE: Thank you. At the bottom -- if we could  
13 go back to the interrogatory response, please? At the  
14 bottom of this page, going on to the next, you wrote:

15 "The utility plans to invest into its robust  
16 cyber security infrastructure and the acquisition  
17 and training of skilled resources."

18 What's your approach, what's Toronto Hydro's approach  
19 to formulating a plan to do this?

20 MS. WOO: Maybe you could rephrase your question. So  
21 if we go to our -- maybe I will refer you to another  
22 evidence, if you could just give me a minute. In Exhibit  
23 4, tab 2, schedule 17, page 13, that really details our  
24 security segment, and how we plan to continue to build a  
25 good cyber security posture in our next five years.

26 In addition to that, if we turn to exhibit 2B, E8.4,  
27 page 7, that also detailed our IT cyber security practice,  
28 as well.

1 MR. DAUBE: Is there anything distinct about how You  
2 are formulating plan to combat the risk of -- or to  
3 mitigate concerns for cyber security when it comes to DERs?

4 MS. WOO: I would say we are looking at cyber security  
5 as a whole, instead of targeting only DERs. There are  
6 different smart meters that we are putting in with our AMI  
7 2.0 program, same thing for DER. But we really need to  
8 look at cyber security as a whole, and looking at cyber  
9 security as a practice, and not kind of isolate it to one  
10 type of device.

11 MR. DAUBE: Okay. I will ask my questions about DERs  
12 and smart grids specifically, but I appreciate that, I  
13 appreciate what you just said in your last answer, that it  
14 may just be a general approach that you are describing.

15 For cyber security risks when it comes to DERs and  
16 smart grids, are there any other jurisdictions or utilities  
17 that you are following and examining when it comes to ideas  
18 and approaches to mitigate cyber security risks?

19 MS. WOO: We work closely with our industry leaders,  
20 we work with our peers. And, most importantly, our plan,  
21 our framework, as I said, is aligning to the NIST standard  
22 and also to the OEB CFS standards. And every year, we do  
23 have to be compliant with the OEB CSF.

24 MR. DAUBE: What do you mean when you say "industry  
25 leaders"?

26 MS. WOO: We are part of different -- membership of  
27 different cyber security membership. So we do work closely  
28 with different peers. And we also are members of Gartner.

1 We also have -- every year we do self-audit external audits  
2 with different cyber security expert consultants, that we  
3 do external assessment of our cyber security practice, as  
4 well.

5 MR. DAUBE: Are any of those peers from outside  
6 Canada?

7 MS. WOO: Canada, and also North America.

8 MR. DAUBE: And are any of those external consultants  
9 from outside Canada?

10 MS. WOO: Consultants are not really -- an example of  
11 a consultant could be IBM or Accenture; so they are  
12 international.

13 MR. DAUBE: Can we go to question C, please, or your  
14 response to question C? In this response -- well, this  
15 question asks you what you are doing to identify cyber  
16 security risks as they apply to DERs and smart grids  
17 technologies, so we've talked a little bit about this  
18 already. In your answer, in the second sentence, you say  
19 that your evaluation efforts include examination of  
20 industry best practices. It may be that you want to refer  
21 to the evidence you've already given.

22 My question here is: When you're talking about  
23 examination of industry best practices, what does that  
24 entail as it applies to cyber security risks for DERs and  
25 smart grids? Is there anything in addition to what you've  
26 already told me?

27 MS. WOO: I think the key one I would refer to  
28 industry standard is the NIST standard. Also, with the OEB

1 CSF framework, it also looks at -- it's really based on the  
2 NIST as well as if -- I will bring that up for you in a  
3 minute. So the OEB CSF standards based on NIST, which is  
4 the National Institute of Standards and Technology also  
5 based on what is called C2 M2, the cyber security  
6 capability maturity model that is done by the U.S.  
7 Department of Energy.

8 MR. DAUBE: Again, you may have already answered this  
9 in your evidence, but let me ask it to make sure. In the  
10 final sentence, you say:

11 "In addition, regular assessments of the Toronto  
12 Hydro cyber security posture were performed to  
13 ensure continuous evaluation and adoption to the  
14 changing landscape."

15 What does that entail as it applies to cyber security  
16 risks for DERs and smart grids specifically?

17 MS. WOO: Again, as I mentioned before, when we look  
18 at our cyber security practice, we look at it as a whole,  
19 not just specifically for DERs or smart grids. So these  
20 regular assessments will be looking at our overall cyber  
21 security practice at Toronto Hydro.

22 MR. DAUBE: Is it likely that it will become more  
23 important as the number of DERs on your system increases?  
24 Will it become more important to perform any specific  
25 evaluation when it comes to cyber security risks for DERs  
26 and smart grids?

27 MS. WOO: Yes, that may be the case, and future  
28 assessment in the future years may have a more focus,

1 higher focus, bigger focus on DERs. That may be true.

2 MR. DAUBE: What sorts of things are you going to be  
3 looking for towards determining whether that specific  
4 evaluation is helpful or necessary?

5 MS. WOO: The assessment is usually something we came  
6 up with every year, based on different external factors,  
7 looking at the cyber security landscape at the time, also  
8 based on some external consultants' assessment of what to  
9 assess for that particular year.

10 MR. DAUBE: Okay. Thank you very much. Those are my  
11 questions.

12 MR. MURRAY: Thank you very much, Mr. Daube. Next on  
13 the list is VECC. Mr. Garner.

14 **EXAMINATION BY MR. GARNER:**

15 MR. GARNER: Good afternoon, panel. Hopefully, you  
16 can hear me. My name is Mark Garner, and I'm a consultant  
17 with the Vulnerable Energy Consumers Coalition. I only  
18 have a few brief questions, and the first one I would like  
19 to start with -- there are actually two questions, and they  
20 are both assigned to this panel. One is at 1B-VECC-8, but  
21 1B-VECC-8 actually then refers to 4-STAFF-296. I just, if  
22 we just, I think -- and, actually, there's another  
23 interrogatory they are all related to, which is 4-VECC-65.  
24 Maybe that's the best place to start.

25 At 4-VECC-65, there's a table 3, I believe, in that,  
26 in that interrogatory. This is just to help me in my  
27 confusion about an issue about locates and about the -- I  
28 don't know how you pronounce it -- the GOCA account,



1 however you want to pronounce that awkward acronym.

2 The first question is: When I look at the table  
3 that's referenced here from the evidence, you see the line  
4 that says "public safety and damage prevention." In that  
5 line, am I right that that includes the coast of locates,  
6 but it also includes some other costs inside that line?

7 MR. SMART: So that line includes the cost to deliver  
8 and administer locates and nothing else.

9 MR. GARNER: And nothing else, okay. Then that leads  
10 me to my next place, which is to go to the interrogatories  
11 at Staff-296 because I'm just -- I've got a couple of  
12 questions about that table, and it's unfortunate if you had  
13 both of them at the same time.

14 In Staff's response at response E, page 4 of 5, they  
15 asked you to do an analysis that would try to show the  
16 variance of this GOCA account, and I was trying to match up  
17 what you were trying to show in this table to what we were  
18 just looking at for locates. So the numbers, it didn't  
19 seem to me, matched, at all.

20 So, on public safety and data prevention, the numbers  
21 you have in this example -- and maybe just because they are  
22 just illustrative; they're not real in any sense. I'm not  
23 quite sure. They don't match, for instance, the two 2021-  
24 2022 numbers that we just looked at for public safety and  
25 damage prevention.

26 So, in the prior table 3, for instance, 2020 was  
27 \$4.7 million, and in this one it's -- it's a little hard  
28 for me to understand which one of these it is. It's

1 \$2.8 million, though.

2 Can you help me with just that basic math problem of:  
3 What am I looking at in comparison to those two tables when  
4 I look at the line "public safety and damage prevention,"  
5 which you're telling me only includes locates?

6 MR. SMART: Correct. So I would point you towards the  
7 second sentence under response E, so:

8 "In preparing this forecast, the utility has  
9 excluded locate costs related to street lighting  
10 assets that are not part of the non-capital-  
11 related revenue requirement."

12 So we've taken that line item from Table 6 in the  
13 evidence and removed the costs that are attributable or  
14 covered, I guess, by -- I want to use the right term, but a  
15 revenue offset associated with the street light system.

16 MR. GARNER: Okay. If I can say it back to you: What  
17 the table is trying to tell me is the GOCA account isn't  
18 going to capture the variances related to street lighting  
19 et cetera, so, in order to show us an illustrative example  
20 of what would be recorded in the accounts, you took that  
21 out of that line?

22 MR. SMART: That's correct.

23 MR. GARNER: Right, so another way to say it: If I  
24 look at the numbers, for instance, 2020 in and it was, I  
25 said, \$4.7 million; here it has \$2.8 million; I subtract  
26 those two to talk about the number of residential GS50,  
27 under- and over-50 type of locates that you're talking  
28 about?

1 MR. SMART: Just a point of clarification: Like,  
2 locates would be independent of the customer class; like,  
3 it's related to the infrastructure.

4 MR. GARNER: Right.

5 MR. SMART: But I think the rest of what you're saying  
6 is accurate. This is related to distribution plant.

7 MR. GARNER: Okay. Thank you. Thank you for that.  
8 The other thing I'm wondering if you could do for me is to  
9 -- you have a table, this response has a table, at page 3  
10 of 5, and this is where I'm a little confused here. This  
11 says "actual and forecast locate costs," and here, for  
12 instance in 2023, that's \$7.3 million, and that should  
13 match, and it does, the \$7.3 million you have in the Table  
14 3. We looked before. I'm wondering if you could take this  
15 table and extend it backwards or put it backwards so that  
16 it included the 2020 to '22 period. And you have most of  
17 that information, I think, at 4-VECC-65, except you don't  
18 have the volume number. So, to make the table complete, I  
19 would need the volume number. Is that possible for you to  
20 do with not too much effort?

21 MR. SMART: Sorry, I'm just checking. I don't think  
22 that would be an issue.

23 MR. GARNER: Yes, okay. So, if I can ask for an  
24 undertaking, and it would be to take Table 1 at 4-Staff-296  
25 and recast that table to include 2020, '21, '22.

26 MR. MURRAY: That will be undertaking JT3.22.

27 **UNDERTAKING JT3.22: TO TAKE TABLE 1 AT 4-STAFF-296**  
28 **AND RECAST THAT TABLE TO INCLUDE 2020, '21, '22.**

1           MR. GARNER: Thank you. I'm going to move to a very  
2 different area, and, Ms. Page, I think this is for you, and  
3 maybe with a bit of apologies to, Mr. El-Hage, that there  
4 is a spreadsheet that I just saw the e-mail that we might  
5 talk about. But I don't think we really need to bring it  
6 up too much, it's kind of self-explanatory. The  
7 interrogatory basically asked you to give us a summary of  
8 the call centre activity. And, in fact, that's what's in  
9 the appendices is a summary, but it wasn't what I was  
10 expecting, and it may be that I should have said what we  
11 were looking at more closely.

12           But what I was expecting to see was a report that you  
13 or someone in your group look at periodically which  
14 explains to you the type and nature of the calls you're  
15 having.

16           So, yesterday Mr. Ladanyi had a conversation, I think  
17 with Mr. Higgins or the day before, I can't recall, and  
18 they were talking about different things about outages and  
19 reports about outages, and he made the remark that, you  
20 know, this -- the call centre would capture this type of  
21 stuff.

22           And so, I was interested really in a report that talks  
23 about that so that we at VECC could get a better  
24 understanding of the type of concerns that you are  
25 receiving from your customers, whether it's late payments,  
26 you know, how their late payments are being handled,  
27 whether it's outages, you know, whether it's, you know,  
28 crews that they're complimenting or complaining about,

1 whatever it is, you know, however. Do you do such a report  
2 like that?

3 MR. KEIZER: Do you have what the interrogatory you're  
4 referring to?

5 MR. GARNER: I'm sorry, Mr. Keizer.

6 MR. KEIZER: I didn't hear it.

7 MR. GARNER: The interrogatory, let me just -- it's  
8 1B-VECC-9, I believe, and the appendices, sorry, are 1B-  
9 VECC-09, Appendix A and Appendix B, and I think they're 22  
10 and 23 of the two red sheets that you've provided.

11 MS. PAGE: Yes, that's correct. So, yes, I guess it  
12 was just the way your question was phrased, this one is a  
13 little more particular, and I thank you for that detail.

14 So, yes, we do have in our contact centre, we do have  
15 the ability for our staff to code the call by category, and  
16 so we do get reports of the types of calls that our  
17 customers are getting. So, if that's the report you're  
18 looking for, that's something we have.

19 MR. GARNER: Yes. And to be specific, I mean, what  
20 I'm really trying to understand, probably like you are, is  
21 what are the major concerns, and I'm not sure if you do it  
22 on a monthly basis or biannual, maybe you can help me with  
23 that, too, basis. What you take a look at to be able to  
24 get a snapshot to report to your superiors, you know, we  
25 have, you know, let's say, we're getting complaints over  
26 here about lots of outages, or, you know, everybody is  
27 saying our trucks stay rumbling too long and they should be  
28 shut off, whatever it is, do you know what I mean? How do

1 you make that kind of reporting?

2 MS. PAGE: Sure, if I can just provide you with an  
3 explanation of how we do that. So, in our contact centre  
4 software for calls, we can set up categories of calls, so  
5 if a customer calls for collections, for example, or they  
6 want to understand their bill a little bit better, then  
7 that category would be available and the agent would code  
8 the call that way.

9 It's limited in how many categories we can have, so  
10 one of the -- so, for example, if there's something  
11 emerging, like how many questions getting on DERs, that  
12 might not be an available code, because it's a new item, so  
13 we would have to sort of take away a code and add a code in  
14 order to start tracking that.

15 What we're looking to do is add some technology that  
16 helps us with the speech analytics that can pull this  
17 information out of our calls and using AI better categorize  
18 it so that we can capture the emerging needs and behaviours  
19 of customers a little bit better. So, I do have, if you'd  
20 like a report, I do have the categories that we use now,  
21 they're not necessarily capturing as much of the emerging  
22 stuff that would show up in a miscellaneous type of  
23 category at the moment.

24 MR. GARNER: Right, fair enough. And how many reports  
25 per year would this be? I don't want to overwhelm you with  
26 giving me, you know, a weekly report that you see, but how  
27 -- what's the -- how do you review the reports?

28 MS. PAGE: I believe we're looking, I can't speak

1 specifically at how often the analysts would look at it,  
2 but the management team would be looking at it on a monthly  
3 basis.

4 MR. GARNER: Okay. And is there any roll up at the  
5 end of the year or anything like that of the reports that  
6 you do at the senior level to get that snapshot of the  
7 activity of...

8 MS. PAGE: I don't believe -- probably. They're  
9 rolling it up, but that would be at the manager level that  
10 they're looking at it. I think because, you know, we tend  
11 to look at things on a more frequent basis, that the annual  
12 view isn't as helpful as ensuring that we're monitoring the  
13 changes in customer behaviour more frequently.

14 MR. GARNER: Right. Would it be a burden to produce  
15 the last year's 12 months' worth of reports that you've  
16 looked at? Are they a large volume, or are they...

17 MS. PAGE: No, we should be able to roll that up into  
18 an annual view.

19 MR. GARNER: Mr. Keizer, there's no objection?

20 MR. KEIZER: Sorry. The witness had indicated to be  
21 able to roll it up into annual view, is that acceptable to  
22 you?

23 MR. GARNER: I don't think that's necessary, I think  
24 that would be helpful, if it's not too much work. But I  
25 think I would probably also like to see the, I guess it  
26 would be 12 reports, right?

27 MS. PAGE: Sure. And you would like that for the past  
28 year?

1 MR. GARNER: For the most recent 12 months, let's say.  
2 Meaning not counting this one, and I'm not sure how, you  
3 know, it might be February might be your last report,  
4 right? Whatever your last sort of one is.

5 MS. PAGE: Sure, that's something we can do for you.

6 MR. KEIZER: That's fine.

7 MR. GARNER: Thank you.

8 MR. MURRAY: That will be undertaking JT3.23.

9 **UNDERTAKING JT3.23: TO PRODUCE THE LAST YEAR'S 12**  
10 **MONTHS' WORTH OF REPORTS SHOWING DATA ABOUT CUSTOMER**  
11 **FEEDBACK**

12 MR. GARNER: Right. Thank you. This is not a  
13 question, but it came up from -- and this is because I was  
14 hoping to see this type of information, so maybe you can  
15 just help me with this while I have you here.

16 One of the things, for instance, we're interested in  
17 is the issue about late payments. And can you tell me for  
18 customers -- I'm one of your customers, and I've interacted  
19 with your call centre, which is quite good, let me say,  
20 from my perspective. But when a customer is overdue, does  
21 a customer, do you do an e-mail and phone and type of pre-  
22 late kind of be aware you're going to be late type of  
23 thing? I know some utilities do that; do you do that?

24 MS. PAGE: Yes, that's something we do. The first  
25 contact is an automated phone call to let the customer know  
26 that their account is in arrears, and that happens a few  
27 days after the due date. That's followed up by a letter.

28 MR. GARNER: Okay. Right. Thank you. And I hate to



1 admit it, but I've gotten the call. But I've never gotten  
2 an e-mail, and I'm an account holder and so I was always --  
3 some of them do e-mails, right? I get an e-mail. If you  
4 are a paper biller versus an online biller, is there any  
5 difference in how you're alerted to those things?

6 MS. PAGE: Not at the moment, at the moment you're  
7 getting the call and the letter. However, as part of our  
8 technology investments, that's going to be a capability  
9 that we have in the future.

10 MR. GARNER: All right. Thank you. And I'm not sure  
11 if I asked this somewhere else, so pardon me if we did.  
12 Does Toronto Hydro take credit card payment?

13 MS. PAGE: Toronto Hydro takes credit card payments  
14 for customers who are up for disconnection currently.  
15 We're in the process of moving that from an in-house system  
16 to a third party system for processing, which will then  
17 allow us to open up credit cards to our entire customer  
18 base.

19 MR. GARNER: Would that be the one I'm familiar with  
20 other utilities where there's a surcharge for the third  
21 party's use of the technology or whatever?

22 MS. PAGE: That's correct.

23 MR. GARNER: Right. Okay. Thank you. The next place  
24 I would like to go is -- sorry, I'm jumping all around  
25 here, but is 4-VECC-62, I believe. And the gist of this  
26 interrogatory was to explore the rising number of managers  
27 because of the rising number of projects, in essence.

28 And the question was really trying to understand just

1 because your project -- like the dollar number is getting  
2 bigger, why does that necessarily equate to a greater  
3 number of managers, it might but it might not. For  
4 instance if you were doing a big station, it may be the  
5 same as maybe less than if you were doing five smaller  
6 projects.

7 But just looking at the table which is on page 2 of  
8 this interrogatory, how -- I just want to make sure I'm  
9 reading this table correctly, in this sense. If I'm  
10 reading this table, in 2020, would I be reading it as you  
11 were -- I hate to use the term, but to use it, less  
12 efficient than you are in 2022, because the number of  
13 dollars per manager being managed is lower. So, the lower  
14 that number is, the kind of less efficient you are and the  
15 kind of, like, higher that number is means I've got  
16 managers, you know, taking more of my, like, with more  
17 dollars underneath their view. Is that kind of how I read  
18 that?

19 MR. NASSO: So I would not read it that way. The  
20 dollars equate to projects. You could have a lower dollar  
21 value with a very complex project that requires more  
22 commitment in terms of staff. So I would not read it that  
23 way.

24 Again, it varies. The work is increasing. The work  
25 is getting more complex. And so, when we provide you a  
26 range of a manager looking after 11 to 13, that's actually  
27 a veteran manager. When you hire new people, they can't  
28 take on the 11 to 13; they will have to go to a lower

1 dollar value. Does that answer your question?

2 MR. GARNER: Yeah, it does in a way. I guess what I  
3 was trying to figure out is when you did -- because you  
4 actually have an increase. I can't recall in this  
5 interrogatory, there's a number of -- a significant  
6 increase in managers supervising.

7 And what I was trying to figure out was how did you  
8 figure that out in the sense of I know it's a bigger budget  
9 that you are proposing but, to your point that you are  
10 making, how does one understand that it's also just bigger  
11 projects and it takes -- it could take less managers, do  
12 you know what I mean? Because it's just -- let's say "He  
13 is doing nothing but stations," and so, "Hey, I only need  
14 one person to do that." Right?

15 How did you get to the point of, "I know I need this  
16 many more people," with that thing.

17 MR. NASSO: We've been doing this for, well, let's  
18 say, over 10 years or more. The experience of that group  
19 looked at the workload, looked at the upcoming type of  
20 projects, and in fact this was feasible. Their experience  
21 in doing this type of work provided that kind of benchmark.

22 If anything, I think this is kind of very  
23 conservative, at that, as well.

24 MR. GARNER: And if the board or in some other part of  
25 this process, the capital budget gets reduced, let's say  
26 significantly just to make the example easy, does one then  
27 immediately go here and say well, "I should reduce these  
28 lines too, in some fashion"? And, if so, how would I do

1 that?

2 MR. NASSO: We would have to take a look at that, at  
3 that time.

4 MR. GARNER: Because I was hoping you would give me a  
5 way to do it, but that's fine. Okay. Thank you.

6 I think I only have one other area, and it was  
7 actually a follow-up from panel 1. And, Ms. Page, I am  
8 sorry, I think it's back to you.

9 I had a discussion in panel 1 about scheduled outages.  
10 And the discussion went around the fact that they are not  
11 in one of the metrics for the PIM, and they have -- or in  
12 the proposal, et cetera. And I got into asking about how  
13 scheduled outages work and how they are communicated to  
14 customers for a scheduled outage.

15 And maybe, can you help me on that? Is every  
16 scheduled outage communicated, every -- and how so?

17 MS. PAGE: We have a team that handles communicating  
18 to customers about scheduled outages. And I honestly don't  
19 know the specifics of how they do it, so I may have to take  
20 an undertaking if you would like to know the specifics of  
21 how they do it.

22 MR. SMART: Actually, I could provide maybe a little  
23 more detail, and we can see if that's sufficient to answer  
24 your question.

25 MR. GARNER: Sure, Mr. Smart. Please.

26 MR. SMART: So the need for a scheduled outage is  
27 determined by the construction crew that is executing the  
28 work. So as part of their planning activities to get the

1 work done in the field, they will identify, you know, the  
2 zone that they are working in and, as a result, the section  
3 of the distribution system that needs to be isolated and  
4 de-energized in order for them to complete their work  
5 safely.

6       Once they make that identification, we have a  
7 requirement that all scheduled outages, or any customer  
8 impacted by a scheduled outage is notified in advance. You  
9 know, the specific criteria vary depending on the impact or  
10 the scope of the outage, the duration, et cetera, et  
11 cetera. There are some other considerations as well.

12       To my colleague's point, we have a team that supports  
13 the delivery of notices to customers with respect to outage  
14 timing and outage duration, and the purpose of it.

15       So that is, in a high-level sense, how that process  
16 works.

17       MR. GARNER: Thank you, that's helpful. Let me  
18 explore that for a minute, though. It's not, I take it,  
19 then, done through the call centre system; it's not like a  
20 phone call through the call centre system saying a crew is  
21 going to be in your neighbourhood in three days, and the  
22 expected outage is an hour and a half, and please take note  
23 or whatever. That's not how it's done?

24       MR. SMART: There are several different, I guess,  
25 methods of communication that we would use, depending on  
26 the project. In some cases, it's an auto-dialler, so a  
27 phone call. In some cases, it's a letter. In some cases,  
28 it's a door hanger. And, in some cases, it is the crew

1 knocking on the door.

2 And the specific method that we use for a given  
3 project, again, depends on the circumstances and the  
4 characteristics of that project.

5 MR. GARNER: I can see that, and I mean, I can  
6 understand some outages are very short and a crew is there  
7 very quickly, and you are not going to go to all that  
8 effort, for instance, to do something.

9 But it would seem to me that Toronto Hydro would have  
10 a set of criteria that would say, you know -- let's say if  
11 an outage is more than 20 minutes, we have to do X; if an  
12 outage is more than three hours, we have to do Y. You know  
13 what I mean? - a set of guidelines for its crew and other  
14 people on how -- what it expects. Does it have such a  
15 thing?

16 MR. SMART: Yes. We have practices, I guess, for what  
17 type of notification, how much notification is necessary,  
18 depending on the project. And the vast majority of planned  
19 work, for example, where the crew has time to plan the job  
20 and, you know, looks at things, days or weeks in advance.  
21 That would typically be some combination of written notice  
22 to the customer, or the phone call.

23 MR. GARNER: Right. And in the case of written  
24 notice, if there's a change in the scheduling as there  
25 might be, right, from different things happening, is there  
26 another written notice? Is it just sort of bypassed? Do  
27 you monitor that you actually meet your -- what you have  
28 said to the customer?

1 MR. SMART: So to the extent that there's a change  
2 ahead of the outage taking place, I can't speak to exactly  
3 what the process would be. I would presume that we would  
4 notify them by some means. But I would have to go back and  
5 check exactly what our practice is there.

6 I think the second part of your question, just to  
7 clarify, is looking at, you know, if the outage takes place  
8 and, you know, it takes longer or something like that, were  
9 you asking about communication in that situation?

10 MR. GARNER: And are the crews provided -- does the  
11 crew define what the outages are going to be? Or are they  
12 provided with an expectation so that, if they are monitored  
13 by, you know, this job should be an hour outage and, in  
14 fact, let's say it's three hours' outage, and someone comes  
15 and, you know, does an assessment and says why did that  
16 happen and, you know, there's some, you know, learning from  
17 it. Is there anything like that happening?

18 MR. SMART: Yeah. So the way it would work is it's up  
19 to the crew to determine what, again, the scope and the  
20 duration, based on the nature of work. So there is no  
21 standard outage for a particular type of job because it  
22 depends entirely, as I am sure you can understand the  
23 circumstances that they are dealing with in the field, and  
24 they have to work safely.

25 You know, we monitor, I guess, the performance in that  
26 regard. You know, so what would happen is the crew would  
27 submit a work request to the control room with an outage  
28 start time and an outage finish time. We would have that

1 in our records. It would go up on our planned outage map,  
2 online.

3 And if the duration of the outage, you know,  
4 significantly or -- I should say exceeded the -- like, if  
5 the power wasn't back on by the time that they had  
6 originally planned, that's something that we would notice  
7 in the control room and, you know, depending on the  
8 circumstances, if it's not obvious from what's happening in  
9 the field and, you know, something obviously that happened  
10 with respect to the work, we would do that assessment  
11 after. And it would be most likely the manager of the  
12 construction crew that would look at that and ask those  
13 questions, and identify any corrective actions going  
14 forward.

15 MR. GARNER: And so finally, is there -- I can't  
16 imagine a new person on a crew would understand how to do  
17 this without some sort of guidance. Does Toronto Hydro  
18 produce guidance for its crews and/or managers for this is  
19 how this should work?

20 MR. SMART: Yeah. So it would be the crew leader who  
21 typically stakes responsibility or is responsible for  
22 planning the job, including the scope and duration of any  
23 necessary planned outages. And the crew leader, you know,  
24 it's a defined position, and it is typically someone who is  
25 more experienced and spent time as member of a crew. So it  
26 would never be someone who has never done this before put  
27 into that situation.

28 MR. GARNER: You know, not to put too fine a point on



1 it, not to argue the point, but to try to get you to where  
2 I am going, in all of this, is I am looking for the  
3 documentation from the utility that basically says this is  
4 a customer's bill of rights on something that's going to  
5 happen. These are what you can expect from us, especially  
6 if you are going into a proposal where you are yourself  
7 saying we are going to do lots of projects and we are going  
8 to have lots of scheduled outages.

9 And yet, what you are seemingly saying to me is, but  
10 there is no thing that a customer can look at and then  
11 phone the call centre and say "This isn't right, you know.  
12 This isn't right. No one contacted me, and no one did  
13 this. It's just not the way I was expecting it."

14 And so I'm looking for you to help me to say I can  
15 give you something that tells you this is kind of what  
16 customers can expect and that we can look at and say, okay  
17 -- and we might even have a discussion around it and say,  
18 okay, but why can't they expect this, and you could  
19 explain, no, they can't because of this.

20 Do you have anything to offer in this case that my  
21 client could use to deal with that issue?

22 MR. SMART: So there are certain, you know,  
23 obligations that we have under the distribution system  
24 code, but I can maybe take it by way of undertaking to  
25 provide a response to --

26 MR. GARNER: If you could and if you had something,  
27 and I think I'm looking at Ms. Page, too, because what I'm  
28 trying to figure out to myself is, if everything you would

1 like is approved and you do go down this avenue, it seems  
2 to me, as one of the issues that my client is very  
3 concerned about, is, well, how does this impact their  
4 service; how do they communicate when they see something  
5 that they don't think is working well; how do you learn  
6 from that and say, yes, we get it, and, next time we're  
7 doing this, we're going to do it a little differently  
8 because we get the problem -- you know, that kind of  
9 feedback that's going on on a big project.

10 So, if you do, that might be helpful, and, if you  
11 would make it an undertaking, I think with the proviso, I  
12 think, Mr. Keizer is going to give me, which is I'm not  
13 sure and you're not sure what exactly you're going to find,  
14 if anything, right?

15 MR. KEIZER: That would be the proviso, yes.

16 MR. MURRAY: Mr. Garner, maybe for the record --  
17 because that was a bit of an iterative process with a bit  
18 of back and forth. If you could, just kind of summarize  
19 the undertaking to help the court reporter.

20 MR. GARNER: The undertaking that I hear -- and, Mr.  
21 Smart, you can chime in -- is that Toronto Hydro will  
22 review whether what guidance it has or, or -- I'm trying to  
23 think -- of training document guidance it has for  
24 expectations of outages and length of outages and  
25 reporting, notifying customers of outages, that exercise of  
26 doing a project that has a scheduled outage. Is that  
27 awkwardly said?

28 MR. KEIZER: So is it -- can I give it a try?

1 MR. GARNER: Sure, Mr. Keizer, please.

2 MR. KEIZER: Basically, it is effectively the  
3 communication protocol between Toronto Hydro and the  
4 customer with respect to scheduled outages?

5 MR. GARNER: I think you say it much better than I do.

6 MR. MURRAY: And that will be undertaking JT3.24.

7 **UNDERTAKING JT3.24: TO DESCRIBE THE COMMUNICATION**  
8 **PROTOCOL BETWEEN TORONTO HYDRO AND THE CUSTOMER WITH**  
9 **RESPECT TO SCHEDULED OUTAGES.**

10 MR. GARNER: Thank you. If you just give me one  
11 second, I do believe those are all of my questions. Maybe,  
12 Ms. Page, just to confirm -- I did hear this, but, just to  
13 confirm, you said that the call centre does not delineate  
14 by customer segment its reporting complaints.

15 But what I took from what you said, though, because  
16 you use codes and you have changed them from time to time,  
17 some I imagine are fairly standard and keep because they  
18 stay there a long time, a lot of people phone with the same  
19 thing, and then some of them, as you say, are evolutionary;  
20 they capture new things. Right?

21 So what I'm interested here is that, that, the --  
22 there's a class of customers called the suite-metered  
23 customers, and I just am interested if they are at all  
24 captured as a group when their calls come in, separately  
25 from other customers?

26 MS. PAGE: My apologies, but I couldn't really hear  
27 the full question. Can you repeat it for me?

28 MR. GARNER: Well, the first part was just me

1 meandering around what you told me, which was that you told  
2 me that, when you collect your data at the call centre, you  
3 are not doing it by customer class. Is that correct?

4 MS. PAGE: We break it down into residential and  
5 commercial.

6 MR. GARNER: Right. So let's say the suite-metered  
7 group of customers, would they be separated out from that  
8 group?

9 MS. PAGE: They would be --

10 MR. GARNER: -- in and of themselves?

11 MS. PAGE: -- included in the residential group, so  
12 it's not separate.

13 MR. GARNER: It's not separate. And the only way they  
14 would be separated, I take it from what you were saying to  
15 me, is if some issue evolved and you were then tracking  
16 that issue, as you said, in a new code that you wanted just  
17 to keep track of that. That's the only reason they would  
18 show up as a group. Or any customer, if they had some  
19 issue that you were -- because you told me codes change  
20 from time to time to try to capture new issues with it. Is  
21 that right?

22 MS. PAGE: Right. We do change the code, but the code  
23 applies to all calls that come in on a certain queue. So  
24 we have two queues, one for residential and one for  
25 commercial. So --

26 MR. GARNER: Oh, I see.

27 MS. PAGE: -- the suite-metered customers are just  
28 mixed in with the residential, so I can't separate.

1 MR. GARNER: I see.

2 MS. PAGE: I can't do a code --

3 MR. GARNER: Right.

4 MS. PAGE: -- just solely for the suite-metered group.

5 MR. GARNER: Right. Okay. Thank you. And that's all  
6 my questions. Thank you. Thank you, panel, for that.

7 MR. MURRAY: Thank you. We're about to get the last  
8 questioner, which will be OEB Staff. But, before doing  
9 that, I just wanted to give people an update in terms of  
10 timing. This will be the last one for panel 2. I don't  
11 know if panel 3 is in the building or is relatively close,  
12 but I anticipate we will probably start with panel 3  
13 sometime between 2:45 and 3:00. So we're going to go with  
14 OEB Staff first, and then we're going to take the break and  
15 then panel 3, but, if they aren't already en route or  
16 reasonably --

17 MR. KEIZER: They are.

18 MR. MURRAY: -- proximate, maybe we should --

19 MR. KEIZER: We're ready to go. We're ready to go.

20 MR. MURRAY: Excellent. With that, I will hand things  
21 over to Ms. Defazio -- oh, sorry, to Mr. Zanini.

22 **EXAMINATION BY MR. ZANINI:**

23 MR. ZANINI: Hi. Daniel Zanini, senior advisor,  
24 performance analytics and reporting on the OEB Staff.  
25 First question is on 1B-CCC-16, response B, just some  
26 clarification on terminology. Response B, please, a bit  
27 higher up, letter B. Yes, there. Oh, no, further up.  
28 Page 2. Okay, yes.

1           In line 14 or 13 to 15, it's mentioned that a change  
2 in the count of vehicles removed went from 132, and then  
3 the word "replaced" was put in instead of "removed" for the  
4 163 vehicles. Was "replaced" really supposed to be the  
5 word removed or out of fleet?

6           MR. HOM SMA: Yes, sir, that's a mistake. Good catch.

7           MR. ZANINI: Okay. And then, on that table, the last  
8 column, the two terms in brackets, C plus D, are those  
9 actually supposed to be added together and then multiplied  
10 by seven years in the total number vehicles since column C  
11 is supposed to be the total cost avoidance by class?

12          MR. HOM SMA: Yes. I made a note in my binder saying  
13 the same thing.

14          MR. ZANINI: Okay.

15          MR. HOM SMA: Yes, sir.

16          MR. ZANINI: So it's just supposed to be column D,  
17 times seven, times number of vehicles?

18          MR. HOM SMA: Yes, so C, column C, times D, times seven  
19 years.

20          MR. ZANINI: So, sorry, you said "column C, times D"?

21          MR. HOM SMA: Sorry, B, the number of vehicles, 62 --

22          MR. ZANINI: Yes.

23          MR. HOM SMA: -- times the average opex cost of \$4,000,  
24 using the light duty example --

25          MR. ZANINI: Yes.

26          MR. HOM SMA: -- so B times D, times seven years.

27          MR. ZANINI: Yes. Okay.

28          MR. HOM SMA: That's it.

1 MR. ZANINI: Thanks.

2 MR. HOM SMA: Sorry about that.

3 MR. ZANINI: My other question is on IB-Staff-55,  
4 response I. So I had asked: Would 5 kilometres or less of  
5 driving for a vehicle in a given month be representative of  
6 typical drive times for fuel productivity? And the  
7 response was essentially no.

8 So my question is: Why were vehicles that had 5  
9 kilometres or less drive time in a given month included as  
10 part of the drive time study?

11 MR. HOM SMA: So, by creating those, the statistics, in  
12 terms of drive time per location, we included our, all of  
13 our, vehicles. So, when reading that question, I was under  
14 the impression that you were of the impression that some of  
15 our vehicles are only driving 5 kilometres a day.

16 MR. ZANINI: So the way the spreadsheet was provided,  
17 it would show a row item for a given vehicle, the total  
18 kilometres driven within that month for a home zone, I  
19 believe the terminology is.

20 MR. HOM SMA: Yes.

21 MR. ZANINI: And quite of few of those data entries or  
22 rows had 5 kilometres or less for the given month, like  
23 total kilometres for a given month for that vehicle. Since  
24 the analysis of that table was essentially being used to  
25 justify a congested urban productivity kind of adjustment  
26 for the benchmarking, I'm just wondering why you would  
27 include drive distances, total drive distance, of less than  
28 5 kilometres in a month to be indicative of affecting

1 productivity when it comes to the congested urban  
2 productivity.

3 MR. HOM SMA: Yes, so all of our vehicles are used  
4 throughout the day, and, when asked, when producing a chart  
5 to show how many minutes it takes to drive a kilometre, you  
6 can take all kinds of different examples and removals and  
7 assumptions, but that's the way we calculated it.

8 MR. ZANINI: Okay. Thanks. That's all the questions  
9 I have.

10 **EXAMINATION BY MS. DEFAZIO:**

11 MS. DEFAZIO: Hello. Hi. I'm Margaret Defazio, OEB  
12 Staff. Mr. Garner ended with suite meters. I would like  
13 to start with them, please. If we go to Exhibit 4, Tab 2,  
14 section 1, page 39, please. Okay, and line 15. Okay.  
15 Here it says Toronto Hydro's 94,000 suite meters. I just  
16 like to confirm, is that 94,000 suite metered customers, or  
17 92,000 suite metering, I don't know what the central  
18 intelligent boxes are called, those modules?

19 MS. PAGE: Hi, that's 94,000 customers.

20 MS. DEFAZIO: 94,000 customers, okay. Thank you. Are  
21 you able to provide how many suite metering modules or  
22 systems there are? And I have a couple of questions, so it  
23 may be way of an undertaking. I'm looking for how many  
24 actual systems you have of those discrete systems, can you  
25 provide the number that were installed by year of  
26 installation, and can you provide the number of those units  
27 that require seal extensions from 2020 through 2029?

28 MS. PAGE: Hi, just to clarify, by systems, do you



1 mean meters themselves, or are you looking at the  
2 communication technology as well?

3 MS. DEFAZIO: Just the meters themselves. The units  
4 that connect to the CTs.

5 MS. PAGE: Okay. I don't have all of that information  
6 with me, but I can produce it by way of undertaking, if  
7 that's helpful.

8 MS. DEFAZIO: Thank you.

9 MR. MURRAY: That will be undertaking JT3.25.

10 **UNDERTAKING JT3.25: TO PROVIDE THE NUMBER OF SUITE**  
11 **METERS INSTALLED BY YEAR OF INSTALLATION, AND THE**  
12 **NUMBER OF UNITS THAT REQUIRE SEAL EXTENSIONS, 2020-**  
13 **2029**

14 MS. DEFAZIO: If we can now go please to exhibit 2B,  
15 section E5.4, page 9. It's line 13. It says in 2021  
16 segments of Toronto Hydro's meter population began to  
17 surpass the 15-year life span, and the section goes on to  
18 talk about the risk of failure with that 15 year life span.  
19 Can you confirm that Toronto Hydro's meter replacement  
20 program assumes that the failure rate is related to age of  
21 the meter, and not to meter condition or probability of  
22 failure?

23 MS. PAGE: The replacement plan is based on a number  
24 of things. If I could draw your attention to interrogatory  
25 2B-Staff-144, I believe.

26 MS. DEFAZIO: Okay. Thank you. Has Toronto Hydro  
27 started to see accelerated rates of failure amongst the  
28 smart meters?

1 MS. PAGE: I wouldn't describe it at this point as an  
2 accelerated rate, it's variable year over year.

3 MS. DEFAZIO: Could you provide the last couple of  
4 years failure rates of the smart meters? Perhaps back to  
5 2020?

6 MS. PAGE: I believe I have it in an interrogatory.  
7 Just let me see which one. So, if I can turn your  
8 attention to 2B-SEC-64, response A. In that chart it shows  
9 the number of meters that have failed since 2020.

10 MS. DEFAZIO: Thank you. Could we please now turn to  
11 2B-Staff-264. And this is relating to stations facilities  
12 and office facilities. Could you please undertake to  
13 provide recent, or the most recent, asset management or  
14 condition assessment reports of the station facilities that  
15 Toronto Hydro is proposing to do repair work on during the  
16 test period?

17 MR. HOM SMA: That -- there's a number of reports that  
18 go into our projects. Like many other projects at Toronto  
19 Hydro, we haven't gone into the detailed scope development.  
20 So, we have building condition assessments at a station  
21 level, we're able to provide, you know, a risk priority  
22 number based on the probability of fairly, the impact of  
23 fairly, and the condition.

24 MR. MURRAY: Sorry, is your microphone on?

25 MR. HOM SMA: Sorry, maybe I'm not talking close enough  
26 there. So, we are able to provide the condition  
27 assessments per station building, and obviously the -- with  
28 that comes the, you know, an impact measure, a probability

1 measure, and then the condition itself. All of those  
2 assets at a unit format level is ranked in terms of what is  
3 the highest -- the highest building structure component  
4 that's, you know, at risk of failing, or the highest  
5 station that's at risk of failing. As we develop our  
6 programs, we use that data to make the decision. So, you  
7 know, based on the evidence, we've included pictures of,  
8 you know, Windsor station as an example. That station is  
9 old, it has the data that supports a program, so it can  
10 provide, you know, that specific to that station. But as  
11 we develop our program, typically the year before we  
12 execute it, that's when we reassess and go back to that.

13 So, I will not have a five year program with exact  
14 scope on a station by station level. That's developed  
15 usually the year ahead of time.

16 MS. DEFAZIO: So, I'm thinking back to some  
17 discussions I believe we had with panel 1 yesterday about  
18 this not being a project based DSP. So, I guess it's that  
19 you don't have the list of projects. Would you have a list  
20 of stations for 2025 at this point?

21 MR. HOMSMAS: I would say Windsor station is definitely  
22 a station we need to focus on. We've shown pictures in our  
23 evidence. The other component to consider, you know,  
24 through asset management program, we speak to --

25 MR. MURRAY: I'm sorry, I think your microphone might  
26 be off again. Maybe it's...

27 MR. HOMSMAS: Can you hear me now? Hello?

28 MR. MURRAY: Much better.

1 MR. HOM SMA: That's strange. I am almost kissing this  
2 thing, here.

3 So, through our asset management program, we also have  
4 reactive projects, too. So if we get very tight on a  
5 project that we need to execute next year, and something  
6 more serious happens prematurely, we have to be able to  
7 pivot quickly. So those are the challenges we are facing:  
8 very old buildings that need work, and, you know, our  
9 budget can be justified and we are making the right  
10 decisions, you know, with ratepayers in mind. And  
11 obviously, there are risk-based and impact-based  
12 discussions, like, decisions that we are making.

13 MS. DEFAZIO: So just to summarize, you don't have a  
14 list of projects and costs planned out at this point in  
15 time; it's too early for 2025 and beyond?

16 MR. HOM SMA: Yes, that's correct.

17 MS. DEFAZIO: Okay. Will Toronto Hydro be integrating  
18 its stations' facilities and its office facilities into the  
19 ISO asset management program? .

20 MR. HOM SMA: Yes. So our station buildings have  
21 started on that program. We are -- because we are housing  
22 station assets, distribution assets, we felt that it was  
23 important to be part of that program. And we have also  
24 included our work centre. Since we manage those buildings,  
25 as well, we might as well integrate it, altogether.

26 MS. DEFAZIO: Excellent. Thank you.

27 MR. HOM SMA: Thank you.

28 MS. DEFAZIO: Could we please to go 2B-Staff-269B.

1 So, in this response, Toronto Hydro indicates it has  
2 contingency plans to ensure EV charging infrastructure at  
3 its facilities will continue to operate during prolonged  
4 power outages. And I guess this just goes to the question,  
5 do you have the power to restore the power? Could you  
6 provide these contingency plans or a summary of these  
7 contingency plans?

8 MR. HOM SMA: Yes. So, obviously, that's a major  
9 concern for us, you know, electrifying our fleet as an  
10 example, how will we be able to respond to an emergency.  
11 So our buildings have back-up generators to power, so that  
12 we can respond to power outages appropriately.

13 Obviously, the climates are changing in terms of  
14 electrification and vehicle electrification. So we are  
15 lucky that we already have that generation in place.

16 I can get into specifics, like 500 Commissioners has  
17 four 1.5-megawatt generators, but we are definitely  
18 covered.

19 MS. DEFAZIO: So the generators, your current  
20 generators are sized that they can take the vehicle  
21 charging load, as well?

22 MR. HOM SMA: Yes, at this time.

23 MS. DEFAZIO: Okay. Regarding fleet, could you please  
24 go to Exhibit 2B, E8.3, page 2, line 15.

25 So you talk about the fleet asset management strategy,  
26 and asset condition assessment. Could you provide a  
27 summary of fleet asset condition assessment, similar to how  
28 we do with distribution assets?

1           For example, classification of vehicles with the total  
2 number of vehicles, and then that number split up over some  
3 type of rating, however you do your own asset management  
4 for the fleet?

5           MR. HOM SMA: Are you looking for the actual data for  
6 each vehicle? Or a template that we would typically have  
7 filled out for each vehicle?

8           MS. DEFAZIO: I would be looking for a summary table.  
9 So, for example, I don't want a report on every pick-up  
10 truck. But you have so many pick-up trucks, and X percent  
11 have been assessed in this category, and X percent have  
12 been assessed in another category, and what those  
13 categories represent?

14          MR. HOM SMA: I understand. In this evidence here, we  
15 speak to our short-term and long-term asset management  
16 program. So typically, the zero-to-two-year time frame, we  
17 would definitely have that data.

18          So would you want 2025 and 2026 vehicles that we  
19 expect to replace in 2025 and 2026? Or would you just  
20 want, like, all of our vehicles over the period? Like,  
21 what I am getting at is the zero-to-two-year time frame  
22 would be reasonable for us to provide.

23          MS. DEFAZIO: So I am not looking for a replacement  
24 plan, but their current conditions, the current assessment.

25          MR. HOM SMA: Yeah, so based on our long-term strategy,  
26 we would look at the LCA, the life cycle of the vehicle.  
27 Let's just say, if it's a 10-year vehicle that needs to be  
28 replaced next year because it's 10 years old, the next step

1 would be to do the condition assessment and validate  
2 whether it is required or not.

3 So what I would request is if we could provide that  
4 data for all the vehicles that are within a two-year window  
5 of replacement, relative to the LCA.

6 MS. DEFAZIO: Okay. And could you then just include  
7 the vehicle numbers that haven't been included in that  
8 assessment, as well?

9 MR. HOM SMA: Yes, we could do that.

10 MS. DEFAZIO: Thank you.

11 MR. MURRAY: That will be undertaking JT3.26.

12 **UNDERTAKING JT3.26: TO PROVIDE A FLEET ASSET**  
13 **CONDITION ASSESSMENT, FOR THE VEHICLES WITHIN A TWO-**  
14 **YEAR WINDOW OF REPLACEMENT, RELATIVE TO THE LCA; TO**  
15 **INCLUDE THE VEHICLE NUMBERS THAT HAVEN'T BEEN INCLUDED**  
16 **IN THAT ASSESSMENT.**

17 MS. DEFAZIO: Would Toronto Hydro be integrating its  
18 fleet assets into the ISO management system?

19 MR. HOM SMA: Yes. So this period, the 2025 to 2029  
20 period, we will be.

21 MS. DEFAZIO: Okay. Excellent. If we go to page 7,  
22 and it is on line 1, I think it is. So here, it says the  
23 average age of the fleet for the 2025 to 2029 rate period  
24 is 5.4 years. And then if we go to page 15? And that is  
25 line 12.

26 This option, the managed fleet deterioration,  
27 translates to a 5 to 7 percent increase in average vehicle  
28 age across the fleet. So when I did the math on 5 to 7

1 percent on 5.4 years, it didn't match the results on page  
2 18 -- if you go down to page 18?

3 So here, it shows the average fleet age at 6.7 years  
4 under the deterioration option, which is higher than the 5  
5 to 7 percent of 5.4 years. So I was just wondering about  
6 the math.

7 MR. HOM SMA: Sorry, I think where we started, I  
8 believe I saw 2024 is at a 4.9, not a -- we are expected to  
9 get to the 5.4, under this option.

10 MS. DEFAZIO: Under the sustainment, yes. But --

11 MR. HOM SMA: If we go back to, I believe it was line 2  
12 on page 7, where we started?

13 MS. DEFAZIO: Okay.

14 MR. HOM SMA: Right there. So the 2024 period. We may  
15 have to go up.

16 MS. DEFAZIO: Can you just do an undertaking to show  
17 me how you got those 6.4 years under "Deterioration", or  
18 whatever the 6-point-something value is in table 8?

19 MR. HOM SMA: Yeah, I think we could provide that. The  
20 challenge with average age is every vehicle class has a  
21 different average age. We did answer an interrogatory  
22 where we provided our decommissioning plan that shows all  
23 of our vehicles that we have replaced, and the age they  
24 were when they were replaced. And you could see that we are  
25 managing these vehicles well, in terms of age.

26 When you take that average age, and you have different  
27 numbers in every different class, it can change and swing  
28 quite drastically, one example being a heavy-duty bucket



1 truck has a longer life cycle. So if we have older, heavy-  
2 duty bucket trucks, it will make -- it will show our  
3 average age as a fleet at a 6.7. But those bucket trucks  
4 are required for our fleet workers to execute our program.

5 So it's very difficult for us to show that, and come  
6 out with a meaningful goal, because you have to look at it  
7 at a bucket-by-bucket level. And, you know, in a double-  
8 bucket truck -- sorry for all the buckets here -- but for a  
9 double-bucket truck, they have a longer life cycle. And  
10 they are the most critical asset for our customers, which  
11 are the crews. So I just wanted to raise that point as  
12 well. We could provide that math. It's just there are a  
13 lot of caveats behind it.

14 MS. DEFAZIO: Mm-hmm. Well, the comparison of your  
15 plans is done by showing the average age after the  
16 different investment levels, so I would like to understand  
17 that, if you could.

18 MR. HOM SMA: Okay. I understand, thank you.

19 MS. DEFAZIO: Thank you.

20 MR. MURRAY: That will be undertaking JT3.27.

21 **UNDERTAKING JT3.27: TO SHOW THE CALCULATION OF THE**  
22 **6.4 YEARS UNDER DETERIORATION IN TABLE 8.**

23 MS. DEFAZIO: I'm going to try here. We have an  
24 undertaking on the last panel for this, but it's a quick  
25 one if you know it. Toronto Hydro has referenced the  
26 Building Transit Faster Act. Do you know what agreement  
27 Toronto Hydro and Metrolinx have come to regarding the  
28 apportionment of relocation costs under the Building

1 Transit Faster Act?

2 MR. NASSO: Yes, I'll be able to answer that. Can I  
3 take you to section 2B, E5.2.3.4? That would be page 6.  
4 You can see on line 16, if I read it word for word:

5 "Toronto Hydro has successfully negotiated with  
6 Metrolinx that all BTFA relocations will be a 100  
7 percent funded by Metrolinx."

8 So Metrolinx will pay a hundred percent.

9 MS. DEFAZIO: Excellent. Thank you. If we go to 2B-  
10 STAFF-188, here, we asked about the decrease in  
11 contributions in the test period. And, if you scroll down  
12 to the response, the response says:

13 "The decrease in capital contributions is  
14 attributed to the increased expansion work over  
15 the forecast period to meet future load growth.  
16 In particular, forecast expansion work associated  
17 with relocations under the Building Transit  
18 Faster Act" --

19 So here we're talking about load growth and  
20 expansions, which are different. This paragraph just seems  
21 to confuse them. And they have different funding  
22 mechanisms. So I was just wondering if you could take  
23 another stab at explaining the decrease in contributions.

24 MR. NASSO: Absolutely. So, if I take you -- so,  
25 first and foremost, the relocations are a hundred percent  
26 paid by Metrolinx. If there's an opportunity because we  
27 see expected load growth in the forecast, we will -- can  
28 you go to section -- actually, page 7 of 21, you will see

1 4, expansions work in conjunction with relocations work.

2 So, if there's an opportunity because we see expected  
3 load growth in the forecast, we will jump on with those  
4 expansions; we will do that extra work. That's not covered  
5 by Metrolinx. So we'll do that expansion in conjunction  
6 with the relocation, and that's why you see a lower  
7 contribution. So that's where the statement says [audio  
8 dropout] of the forecast work is Metrolinx work.

9 MS. DEFAZIO: So 70 percent of the forecast work is a  
10 hundred percent contributed?

11 MR. NASSO: No. So, when we do an expansion, we  
12 already have, let's say, the ground dug up.

13 MS. DEFAZIO: Yes.

14 MR. NASSO: We're going to do the relocation. At the  
15 same point, we can increase our asset sizes if there's a  
16 need for it. So, actually, there's a lot of cost savings  
17 in doing it this way.

18 MS. DEFAZIO: So you're doing the incremental work at  
19 the same time?

20 MR. NASSO: Incremental is paid by Toronto Hydro, yes.

21 MS. DEFAZIO: Yes, so your -- so how does that  
22 decrease contributions?

23 MR. NASSO: Because Metrolinx is not paying for that.  
24 What you would have see in the first rate period is a  
25 number of projects where we didn't increase the assets. It  
26 would have been a like-for-like, and they paid a hundred  
27 percent. So now, in the next rate period, you will have  
28 more work there where we need to do expansions on.

1 MS. DEFAZIO: So, because you're doing more work  
2 overall but you're --

3 MR. NASSO: Or work that --

4 MS. DEFAZIO: Sorry, more work that's Toronto Hydro  
5 initiated versus developer initiated is why your  
6 relocations are going down?

7 MR. NASSO: That is why the net cost is going down.

8 MS. DEFAZIO: Okay, thank you. I would like to ask  
9 about THE worst-performing feeder program, so, if we go to,  
10 well, 2B-Staff-239, page 4, and also there are some parts  
11 in the DSP where they talk about, "The better visibility  
12 provided by the new outage management system has increased  
13 the number of worst-performing feeders."

14 We've seen worst-performing feeders numbers increase  
15 in the last year. Why would the outage management system,  
16 in having that system, increase the number of worst-  
17 performing feeders?

18 MR. SMART: So I think, to clarify, what we intend to  
19 say with this is that the upgrades that we've made to the  
20 outage management system and the system that we use to  
21 track and record outages have resulted in more feeders  
22 being, I guess, meeting the criteria for worst performing.  
23 And the reason for that is the new system that we moved to  
24 has better visibility, I guess, around really, really  
25 small-scale outages, so in terms of, you know, number of  
26 customers.

27 In the past, the system that we used was manual, so  
28 there would be an outage, and then a dispatcher or an

1 operator or a crew member would, you know, take the  
2 requisite steps to make repairs and restore the customer,  
3 and then it would be incumbent on the operator in the  
4 control room to go to the manual system and record that  
5 outage. But there was no means to audit that activity  
6 relative to, you know, some sort of, like, SCADA data that  
7 came back through one of our sensors in the field.

8 With the new system, the outage report is created  
9 automatically by virtue of the actions that the operator is  
10 taking in the control room, so we aren't relying on an  
11 individual, who may or may not be dealing with, you know,  
12 other outages or other priorities at the moment, to  
13 remember to put that outage in.

14 So what in effect is happening, I guess, just to  
15 summarize, is there has been an increase in terms of the  
16 number of those kind of small-scale outages in terms of  
17 SAIDI and SAIFI impact, but they still count as  
18 interruptions for the purposes of the worst-performing  
19 feeder program, so you see more feeders on that list.

20 MS. DEFAZIO: Okay. So, under a scenario where you  
21 had -- let's talk about a FESI-7 feeder. You might have a  
22 feeder that supplies, I don't know, a couple of hundred  
23 customers, and, if you have individual overhead transformer  
24 outages that impact seven customers, seven of those small  
25 outages would put that feeder on the worst-performing list?

26 MR. SMART: Yes, that's correct.

27 MS. DEFAZIO: And, if you missed two of them in the  
28 past, it wouldn't have made the list?

1 MR. SMART: That's correct.

2 MS. DEFAZIO: And it has no impact on your overall  
3 SAIDI and SAIFI because the numbers are so small?

4 MR. SMART: It's immaterial, I guess.

5 MS. DEFAZIO: Yes.

6 MR. SMART: Yes.

7 MS. DEFAZIO: Okay. So your FESI-6 and your FESI-7 is  
8 not dependent on the size of the outage on a feeder or even  
9 that it's a main breaker outage, that it's any outage along  
10 the feeder?

11 MR. SMART: Yes. We track all or we count, I guess,  
12 all sustained interruptions along the feeder.

13 MS. DEFAZIO: And do you take scheduled outages out of  
14 that analysis?

15 MR. SMART: Subject to check, I believe we do, yes.

16 MS. DEFAZIO: Okay. Do you get a high number of  
17 complaints about customers having multiple interruptions?

18 MR. SMART: We do get complaints, like, in that regard  
19 from time to time, but I don't think I can, you know --

20 MS. DEFAZIO: Okay. In the example we just discussed,  
21 you may have multiple outages, sustained outages, on the  
22 same feeder, but they may impact different customers each  
23 time?

24 MR. SMART: That's correct.

25 MS. DEFAZIO: Okay. And where did the number of  
26 outages customers experience rank in the customer  
27 engagement? Do you recall?

28 MR. KEIZER: If you want specifics, I think that's

1 panel 3.

2 MS. DEFAZIO: Okay, thank you. Before I go to my next  
3 topic, I think Daniel, you had a question.

4 **EXAMINATION BY MR. ZANINI (CONT'D.):**

5 MR. ZANINI: Sorry, I don't remember which question  
6 this is, but it's regarding the electrification of the  
7 fleet vehicles and the generation capacity at your depots  
8 in case of long power outages.

9 Now, It's my understanding that quite a lot of the  
10 field resources are outsourced by Toronto Hydro, so who  
11 would have the capacity to, if they electrify to power  
12 their resources and their vehicles in the case of long  
13 power outages, because I would assume that Toronto Hydro  
14 would need those resources to help troubleshoot or fix any  
15 of those long term power outages?

16 MR. HOM SMA: Sorry, you're speaking of the resources,  
17 like, contract resources, like, that would respond to our  
18 work as well?

19 MR. ZANINI: Yes.

20 MR. HOM SMA: Yes. At this time our contractors may or  
21 may not have plans. I can't speak to specifically their  
22 electric vehicle -- vehicle electrification plans. But  
23 they are nimble and we do have contractual language we  
24 could, you know, put on them to expedite if needed, and  
25 it's something we'll continue to monitor and work with them  
26 on.

27 MR. ZANINI: So, it's my understanding under your  
28 emergency response planning, or in your projections as to

1 any capacity you would need for long term outages, you're  
2 including the external resources as part of that planning  
3 to make sure that you do have overall coverage considering  
4 the outsourcing involved?

5 MR. SMART: What I would say is to the extent we rely  
6 on external service providers to provide, you know,  
7 resources to support with restoration activities, the way  
8 those contracts are set up is the service provider has an  
9 obligation to provide us with, you know, the resource fully  
10 equipped with the vehicle, tools, et cetera, et cetera, so  
11 if a particular service provider electrified their fleet  
12 and, you know, had a business risk on their side, whereby  
13 there was a power outage they wouldn't have vehicles  
14 available, you know, the onus would be on them to make sure  
15 they have sufficient backup capacity. So, it's kind of, I  
16 guess, where the line in the sand is.

17 MR. ZANINI: Okay.

18 **EXAMINATION BY MS. DEFAZIO (CONT'D.):**

19 MS. DEFAZIO: This is my last question, and I believe  
20 the last question for this panel, so thank you.

21 In description of Toronto Hydro's acceptance of assets  
22 constructed by contractors or maintenance done by  
23 contractors, Toronto Hydro has mentioned third party  
24 auditors perform unannounced spot audits for quality and  
25 safety purposes. I'm just wondering who these third party  
26 auditors may be. And you don't need company names if it's  
27 a company, but a description of them or whatever.

28 MR. NASSO: I was going to give you company names.



1 MS. DEFAZIO: You can give me company names if you  
2 want.

3 MR. NASSO: Yes, we work with AtkinsRealis, WSP, and  
4 MBM. They are auditing firms.

5 MS. DEFAZIO: Excellent. Thank you. And who selects  
6 the projects they audit?

7 MR. NASSO: This would be the operational leader for  
8 that group. So, what I mean is the operations groups are  
9 broken up into east and west, and so they'll use any one of  
10 the auditors to audit their work.

11 MS. DEFAZIO: And what kind of sampling do they do?  
12 Is it a percentage, a dollar percentage, a project folder  
13 percentage?

14 MR. NASSO: The expectation is auditors go out to each  
15 site on a daily basis.

16 MS. DEFAZIO: Okay. That's it for today. Thank you  
17 very much.

18 MR. MURRAY: Thank you very much, panel 2. I think  
19 that concludes your evidence. We'll take our afternoon  
20 break. We'll come back at three o'clock with panel 3.

21 --- Recess taken at 2:48 p.m.

22 --- On resuming at 3:03 p.m.

23 MR. MURRAY: Welcome back to the technical conference  
24 of Toronto Hydro. We have panel 3 before us. Perhaps I  
25 can pass it over to you, Mr. Keizer, to introduce your  
26 panel?

27 MR. KEIZER: Sorry about that, just a reshuffling at  
28 the counsel desk. Yes, if I could ask the panel to

1 introduce themselves by name and their position, starting  
2 with the panellist closest to us at the counsel table,  
3 please.

4 MR. CLARK: Dave Clark, director of total rewards and  
5 performance.

6 MR. ZENI: Federico Zeni, controller.

7 MS. STULBERG: Jennifer Stulberg, director talent  
8 management and culture.

9 MS. COBAN: Daliana Coban, director of regulatory  
10 applications and business support.

11 MS. DOLZHENKOVA: Ekaterina Dolzhenkova, senior  
12 manager of regulatory analytics.

13 **TORONTO HYDRO-ELECTRIC SYSTEM LIMITED - PANEL 3**

14 **Dave Clark**

15 **Federico Zeni**

16 **Jennifer Stulberg**

17 **Daliana Coban**

18 **Ekaterina Dolzhenkova**

19 MR. KEIZER: Thank you, panel. I don't have any  
20 preliminary matters in respect of this panel, so they are  
21 available for questions.

22 MR. MURRAY: Thank you, very much, Mr. Keizer. Before  
23 I pass it over to SEC, I will just -- I just wanted to let  
24 the panel know that often you are connected, two people to  
25 the same mic. So if one person hits the green button and  
26 then hits it off, you will turn off your colleague's  
27 microphone. So I just wanted to alert you to that, because  
28 it seems to be a bit of an issue. Even Staff, we have had

1 that issue earlier today, where I have turned off my  
2 colleague's microphone.

3 With that, I will pass things over to the School  
4 Energy Coalition. I believe Ms. Scott is going to be  
5 asking questions first.

6 **EXAMINATION BY MS. SCOTT:**

7 MS. SCOTT: Yes. Hello, panel. My name is Jane  
8 Scott. I am a consultant with the School Energy Coalition.

9 If we can start with 4-SEC-92? And in this question,  
10 there was some confusion about headcounts and FTEs, and I  
11 just wanted to clarify. First of all, the term "headcount"  
12 and "resources", they are used interchangeably? Is that  
13 correct?

14 MS. STULBERG: The terms "headcount" and "FTEs" are  
15 used throughout the evidence, but are not interchangeable.

16 MS. SCOTT: No, sorry, I said headcount and resources;  
17 those two are interchangeable in Exhibit 4, often the term,  
18 "so many resources are required."

19 MS. STULBERG: I think it's fair to say there, they  
20 can be used interchangeable in that context.

21 MS. SCOTT: Okay. In the response to part A, table 1  
22 provided from the FTE spike program, but that includes both  
23 those that -- for OM&A, and those that are allocated to  
24 capital. And so I am wondering, can we get that table, a  
25 similar table, but just for OM&A FTEs?

26 MS. STULBERG: Just to clarify: In the response B, we  
27 do have the number of resources that are allocated in terms  
28 of capital and operating. Is that not sufficient?

1 MS. SCOTT: Well, not, because it was not by the  
2 program.

3 MR. ZENI: I don't think we can produce a table at the  
4 program level, like that. FTEs in any given program can  
5 work at any time on capital programs or operating programs.  
6 So there is no fixed extension between OM&A, FTEs or  
7 capital FTEs at the program level.

8 MS. SCOTT: So, in table 3, the 31 FTE increase in  
9 OM&A is based on -- how do you determine that, then?

10 MR. ZENI: The split of that table was on a done on an  
11 aggregate basis, based on the capitalization rate at the  
12 company level. But it is not done at the program level.

13 MS. SCOTT: Based on the dollars?

14 MR. ZENI: Correct.

15 MS. SCOTT: Okay. Is there an easy way of -- how do  
16 you convert headcount to FTEs? Do you do it sort of the  
17 simple way, of number of hours divided by the total cost --  
18 number of hours divided by the possible hours in the year?  
19 Do you have a different way of doing that?

20 MR. ZENI: The FTE calculation, what it does, it  
21 reflects the timing of when an employee joins the  
22 organization. So perhaps an example will be the best way  
23 to explain it. If you hire an employee at the beginning of  
24 July, looking now at the end of December, you will count  
25 that employee as one headcount. But you will count it as  
26 half an FTE, because that employee has stayed with the  
27 organization for only six months of the year.

28 So the math will be -- you take your headcount, divide

1 it by 12 months, times the number of months any given  
2 employee is with the organization, within the organization.

3 MS. SCOTT: Right. So normally, headcount is less  
4 than FTEs. Is that...

5 MR. ZENI: Not necessarily, because --

6 MS. SCOTT: Or, no, sorry, the other way around,  
7 normally -- yeah. Not necessarily? Sorry.

8 MR. ZENI: No, because you have employees joining the  
9 organization and also you have employees leaving the  
10 organization. So if you have an employee, they are leaving  
11 the organization in July; at the end of the year, you have  
12 zero headcount. But you have half an FTE, because that  
13 employee was with the organization for half a year.

14 MS. SCOTT: Okay. Thank you. If we can go to 4-SEC-  
15 89? And this is where you provided updates -- you have  
16 provided by program, but it included the updates for 2023  
17 and 2024 that were provided in the April 2 update. And in  
18 that April 2 update, table 11 provided the drivers. It's  
19 not shown in here; it is reflected here, but it's not  
20 shown.

21 My question is on a high level what were the changes  
22 in 2023 and 2024 that are reflected in the table 11, the  
23 update, and are also reflected in the individual program  
24 updates here?

25 MR. ZENI: Is it possible to bring the table on the  
26 screen?

27 MS. SCOTT: Do you have the update, the April 2  
28 update?

1 MS. COBAN: I think what we are looking for is the  
2 application summary in exhibit 1B, tab 1. Within that, I  
3 can't remember the specific schedule that we filed on April  
4 2, if I have the reference correct, Ms. Scott.

5 MS. SCOTT: Right. Yes, I have it as table 11 in the  
6 update, but you could be -- the one that shows the OM&A  
7 cost drivers? So 294. Yes, okay. So this one doesn't  
8 show what the actual changes are, but the -- so the 2023  
9 actuals went from 301.5 to 294.2. At a high level, do you  
10 have the changes that were made?

11 MR. ZENI: I will have to take an undertaking for  
12 that.

13 MS. SCOTT: And then the same with 2024; it went from  
14 325.5 to 320.5.

15 MR. ZENI: No, for 2024, the change has to do with the  
16 treatment of costs related to implementation of cloud  
17 solutions. That means we discussed as part of the previous  
18 panel, as well as with --

19 MS. SCOTT: Okay, is that --

20 MR. ZENI: Sorry?

21 MS. SCOTT: No, go ahead. Go ahead.

22 MR. ZENI: As well as changes related to the treatment  
23 of incremental locates costs that are also deferred as part  
24 of the GOCA DVA. So those two account for the change in  
25 2024.

26 MS. SCOTT: So of the \$5 million?

27 MR. ZENI: Yes, it's \$1½ million related to locates,  
28 and \$3½ million related to cloud solution implementations.

1 MS. SCOTT: Right, okay. That does explain 2024, yes.  
2 If you could just give, provide 2023, that would be --

3 MR. ZENI: And it's, sorry, also reflected on 2023.  
4 2023 was also impacted by those changes. However, the  
5 magnitude is smaller, so about \$500,000 related to cloud  
6 and \$900,000 related to locates. However, there are other  
7 variances, so I'm happy to take that as an undertaking.

8 MS. SCOTT: Yes, I appreciate that. Thank you very  
9 much.

10 MR. MURRAY: That will be undertaking JT3.28.

11 **UNDERTAKING JT3.28: FOR THE TABLE IN 4-SEC-89, TO**  
12 **SHOW AT A HIGH LEVEL CHANGES FOR 2023 AND 2024.**

13 MS. SCOTT: If we could look at Exhibit 4-1-1, Figures  
14 14 and 15, we had them up earlier today. It's actually at  
15 page 55 of 55. So, looking at the changes from 2020 to  
16 2025, and I understand the adjustment related to COVID and  
17 the adjustment related to the last decision. So, for the  
18 inflationary increase, that appears to be the OEB's  
19 inflation factors for the 2021 to 2024. Am I correct in  
20 that? That's how you have calculated the 45.4?

21 MR. ZENI: That is correct.

22 MS. SCOTT: And the customer growth is based on what?

23 MR. ZENI: Is the annual customer growth.

24 MS. SCOTT: Right. How do you convert that to a  
25 dollar number?

26 MR. ZENI: So we have a percentage of year-over-year  
27 increases in customers, and it was added to the  
28 inflationary increase.

1 MS. SCOTT: Right, but that is based on the  
2 distribution revenue per increase customer or how --

3 MR. ZENI: No. So we estimated a percentage increase  
4 in the customer count, and then we -- the same approach  
5 with inflation. We took the approved OM&A in 2020, and we  
6 escalated by inflation, plus that incremental consideration  
7 around customer growth, and that landed on what the  
8 inflationary increase on funding will be and the variances  
9 that you see on the screen.

10 MS. SCOTT: Right. I guess I still don't understand  
11 because this customer growth reflects your increase in OM&A  
12 costs per customer, I presume. Does it?

13 MR. ZENI: Again, it's just a simple escalation of the  
14 customer account. The intent there is to reflect that  
15 increases in customers have an implication to our OM&A, and  
16 that amount that you see on the screen is reflecting that  
17 impact.

18 MS. SCOTT: Right, but you must have had some way of  
19 calculating. I guess the 7.4 -- maybe you want to take  
20 that away and, if you can, provide some information on how  
21 that was calculated. Because you've used the same in  
22 Figure 15. You've also said there's a -- in that case, it  
23 was a 4.9.

24 MR. ZENI: Yes, the methodology would be consistent,  
25 so, yes, I'm happy to take that undertaking.

26 MR. MURRAY: Ms. Scott, perhaps for the record -- we  
27 had a request from the court reporter to be a bit clearer,  
28 and there was a bit of back and forth there, so, if you



1 could, just summarize the undertaking for the record.

2 MS. SCOTT: Yes. To explain how the dollar figures  
3 related to customer growth were calculated based on the  
4 growth in customers for Figures 14 and 15, B-1-1.

5 MR. MURRAY: That will be undertaking JT3.29.

6 **UNDERTAKING JT3.29: TO EXPLAIN HOW THE DOLLAR FIGURES**  
7 **RELATED TO CUSTOMER GROWTH WERE CALCULATED BASED ON**  
8 **THE GROWTH IN CUSTOMERS FOR FIGURES 14 AND 15, B-1-1.**

9 MS. SCOTT: Thank you. So, if we look at 1B-AMPCO-07,  
10 that reflects efficiency achievements in Table 1, and my  
11 question is: How are those -- well, the first question is  
12 I am assuming they're both OM&A and capital savings or  
13 reductions or variances?

14 MR. CLARK: Subject to review, these would be OM&A  
15 savings.

16 MS. SCOTT: Okay. So how are they, those numbers,  
17 reflected in that Figure 14? I can see how, you know,  
18 costs went up because of inflation and because of customer  
19 growth, and I would have expected to see some downward  
20 pressure based on these numbers, before you get to your  
21 2025 baseline.

22 MR. ZENI: The majority of the cost savings that are  
23 reflected on that table are cost avoidance. So, basically,  
24 those activities, those initiatives, mitigate further  
25 increases, so they're not reflected in that cost chart that  
26 you see, that you refer in your comments.

27 MS. SCOTT: But the cost reductions?

28 MR. ZENI: They are implicitly reflected in the chart

1 because, as you can see, the cost reductions remain  
2 significantly consistent across the years, and our starting  
3 point is 2020. So, because 2020 already includes a cost  
4 reduction, the extrapolation that we do with inflation and  
5 customer growth also carries over that consideration for  
6 cost reduction.

7 MS. SCOTT: So you're saying they're not cumulative,  
8 even though it shows as cumulative?

9 MR. ZENI: They are embedded already in the numbers  
10 because the starting point of 288.1 already reflects the  
11 cost reduction in year one, and that cost reduction in year  
12 one for the most part is consistent in the other years.  
13 And the exercise that we're doing here is an extrapolation  
14 between 2020 and 2025, so, mathematically, if you have it  
15 in year one, that consideration also carries until 2025.

16 MS. SCOTT: Right, but you would have had -- you had  
17 additional efficiencies in 2021, 2022, 2023, and 2024, I  
18 would assume.

19 MR. ZENI: Yes, but, because we are doing an inflation  
20 increase from 2020, embedding that calculation you have  
21 cost reductions all the way to 2025.

22 MS. SCOTT: Sorry, embedded in the inflation increase?

23 MR. ZENI: No, embedded in the 288, that's the  
24 starting point of the calculation in the, in Table 14 --  
25 sorry, Table 13 -- sorry, no Table 14.

26 MS. SCOTT: Fourteen, Figure 14, yes.

27 MR. ZENI: Yes, so the 288 already reflects the cost  
28 reduction in year one.

1 MS. SCOTT: Right.

2 MR. ZENI: And, for every year after, we do an  
3 inflationary increase, which means that, every year after,  
4 you have a similar savings built into the calculation, so  
5 the 288 has \$1.16 million cost reduction already.

6 MS. SCOTT: Right.

7 MR. ZENI: And the year after would have an  
8 inflationary increase plus the customer increase  
9 consideration; same for the year after, the year after, all  
10 the way to 2025. So, implicitly, those savings are already  
11 embedded in those calculations.

12 MS. SCOTT: Okay. I will leave it there.

13 In 4-SEC-110, and you don't have to bring it up,  
14 because it talks about the -- there's an increase in a  
15 number of OM&A areas because capital is increasing. And  
16 so, in the update, the April 2nd update, capital was  
17 reduced, but the OM&A was not reduced for '25 to '29. Is  
18 there any reason why that was not affected by that  
19 reduction?

20 MR. KEIZER: It still might be helpful to bring that  
21 interrogatory up, just so people have context.

22 MS. SCOTT: Okay.

23 MR. KEIZER: Let me just make sure we have the right  
24 reference.

25 MS. SCOTT: Yes, if you go up to the preamble, it  
26 would be talking about the higher -- this was talking about  
27 the higher procurement activity, and because of the  
28 increase in capital, It was one example, just there's a

1 number of them, too.

2 Where it talks about, you know, the increase in legal  
3 as well, and regulatory affairs. This one is the reason  
4 for the increase in public legal and regulatory affairs  
5 because of the increase in procurement activity, which was  
6 related to the increase in capital.

7 MS. COBAN: So, the evidence update that we filed  
8 prior to the interrogatory process was very targeted to two  
9 specific areas, and so I think the reason you didn't see  
10 that relationship carry forward is because of the very  
11 limited nature of where the capital was reduced. Whereas  
12 what you're looking at here in these IRs and elsewhere is  
13 kind of a more trending based view of how increases in our  
14 capital program and work volumes associated with that  
15 capital program holistically are driving increases in our  
16 workforce, our head count and various operational processes  
17 that support the execution of that capital.

18 MS. SCOTT: Right. So, if capital is reduced, then we  
19 should at some point start to see reductions in the  
20 requested OM&A. I mean, not just this reduction, but if  
21 the Board chooses to reduce capital, for whatever reason,  
22 it could have a flow through effect to OM&A?

23 MS. COBAN: It could, but it's very difficult to  
24 speculate on that, on a kind of generic hypothetical basis.  
25 I have to understand the specifics.

26 MS. SCOTT: Right. Okay. I will turn it over to my  
27 colleague, Mr. Rubenstein. Thank you very much, panel.

28 **EXAMINATION BY MR. RUBENSTEIN:**

1 MR. RUBENSTEIN: Good morning, or good afternoon, good  
2 afternoon, panel. I want to start off with follow-up  
3 questions that were punted from panel 2 to panel 1.

4 MS. COBAN: Mr. Rubenstein, If I could just ask you to  
5 speak up. We're having a hard time hearing you here.

6 MR. RUBENSTEIN: I want to follow-up with questions  
7 from panel. Can you hear me? Hello? I want to follow-up  
8 with some questions from panel 2 that were punted to this  
9 panel. And maybe the first I can ask to pull up 2B-Staff-  
10 263. We can go down to part B of the response.

11 Toronto Hydro discusses that if the Board -- well, if  
12 parties oppose and the Board agrees with parties with  
13 respect to the custom funding request for OM&A, Toronto  
14 Hydro would seek alternative relief for a generic account  
15 to capture variances for cloud related cost implementation  
16 subscription cost to ensure that a utility is able to fund  
17 these prudent and necessary expenditures and reduce the  
18 financial barriers to adopting cloud-based solutions. Do I  
19 have that right, that's what you would do?

20 MS. COBAN: That's correct.

21 MR. RUBENSTEIN: And so, I take it it's, essentially,  
22 you know, in the alternative relief?

23 MS. COBAN: That's right.

24 MR. RUBENSTEIN: I just want to understand how this  
25 would differ from the -- or is the account you would be  
26 seeking any different than the current generic account that  
27 the OEB --

28 MR. ZENI: Yes, in the alternative we will be asking

1 for a deferred variance account to track variances between  
2 what we are actually incurring versus what we have embedded  
3 in rates.

4 MR. RUBENSTEIN: But would the terms of the account,  
5 and what it would capture be different than the OEB's  
6 generic account? Is there something different what you  
7 would track versus the existing OEB generic account is? If  
8 you would like to take it away by way of undertaking,  
9 that's fine.

10 MR. ZENI: In the existing account we are tracking the  
11 costs incurred from the implementation of cloud solutions,  
12 on the alternative they are -- we are discussing -- we will  
13 be tracking variances.

14 MR. RUBENSTEIN: Is that the only difference? It's  
15 capturing against a base -- it's tracking variances, but  
16 what would be included is the same as what could be  
17 included, the type of cloud computing costs would be the  
18 same as what would be allowed under the OEB generic account  
19 and, again, I'm okay, no problem if you want to take this  
20 by way of undertaking.

21 MR. ZENI: No, it will be the same.

22 MR. RUBENSTEIN: Okay. Thank you very much. Can I  
23 ask you now to turn to 2B-Staff-273. If we can go down to  
24 part B.

25 And so, as I understand from my discussions with  
26 panel 2 about this, included in the IT software segment is  
27 11.5 million dollars for regulatory compliance initiatives  
28 that may occur, and it's based on an estimate of six

1 previous ones, the numbers came to. And so, my question  
2 is: What happens if the OEB approves a generic variance  
3 account for new regulatory requirements, as they often do?  
4 How would rate payers ensure there's no double counting of  
5 what's included in rates and then any amounts that you may  
6 or may not include in that generic deferral account?

7 MR. ZENI: Yes, the approach in this case wouldn't be  
8 different from what we do today related to the capital  
9 related variance accounts or the EIP variance account. We  
10 will track these particular initiatives, we will track the  
11 cost associated to these projects, as well as the actual  
12 revenue requirement associated with these initiatives. And  
13 then compare against the revenue requirement for the same  
14 initiatives embedded in rate, and that variance will be  
15 accumulated in the deferred variance account.

16 MR. RUBENSTEIN: But the difference with that account  
17 that you're talking about that you've done previously is it  
18 captures all different types of relocations in that  
19 example.

20 Here the Board may have a specific account for a  
21 specific initiative, and so how does it work? Is it if the  
22 dollars get past 11.5 divided by 6, then you would start  
23 recording amounts or is it on the seventh initiative,  
24 that's when you can start recording amounts? Just help me  
25 understand how this works. And, again, if you would like  
26 to take this by way of undertaking and thinking about it I  
27 have, again, I have no problem with that.

28 MR. ZENI: There wouldn't be any significant

1 difference to how we track the external initiative  
2 relocations today. Like, We track these projects, the  
3 systems have functionality built to track projects  
4 individually, and monitor variances against the assumptions  
5 built in the plan.

6 MR. RUBENSTEIN: And so, when you come and, say, let's  
7 imagine there's six different variance accounts that the  
8 Board does on a generic basis. When you come to clear it,  
9 you will compare the total of those six against the 11.5  
10 million?

11 MR. ZENI: In the hypothetical, we can compare the  
12 total, we can compare them one by one, we can segregate  
13 each of the projects and do the comparison at a project  
14 level. So, I don't know, again, we're talking about a  
15 hypothetical, but it is possible to do in an aggregate or a  
16 discrete manner.

17 MR. RUBENSTEIN: But the intent, though, is that for  
18 regulatory initiatives, you would not be able to recover  
19 amounts in how many deferral accounts ultimately may be  
20 created by the board, until you reach, you know, after 11.5  
21 million?

22 MR. ZENI: Sorry, can you clarify the question?

23 MR. RUBENSTEIN: So I just want to understand. So  
24 principally, you were talking about, "we can do it this  
25 way, we can do it that way." I am just wondering, at the  
26 principal level, you would not start -- I shouldn't say you  
27 can record, but at the time of disposition of those  
28 accounts, you would only dispose of amounts above the



1 revenue requirement equivalent of the \$11.5 million.

2 MR. ZENI: Well, no, that -- again, depending on how  
3 the account and the details of the account. But that  
4 account can be symmetrical, so we will be disposing  
5 revenues above or below. So it will protect ratepayers and  
6 as well as the utility for variances against the  
7 assumption's built, in rates.

8 MR. RUBENSTEIN: All right. I am not sure I fully  
9 understand, but I will consider it.

10 Can I ask, I also want to follow up on some questions  
11 I had -- on a question I had on the first panel. I was  
12 directed to this panel. And that's with respect to the 7  
13 percent residential price limit. And so as I understood  
14 the evidence, the 7 percent residential price limit that is  
15 talked about in the application is an output of the overall  
16 budget limit in the draft plan of about \$4 billion in Capex  
17 and \$1.9 billion in OM&A?

18 Do I have that correct? The allocated amount to  
19 residential customers would have resulted in about a 7  
20 percent increase?

21 MS. COBAN: That's right. It's an expression of the  
22 price implications of those budget limits.

23 MR. RUBENSTEIN: So I want to understand how the  
24 company thinks about it. Did the company think about it  
25 when it was developing its plan as a price limit when it  
26 was developing it? Or it's really the \$4 billion capex and  
27 \$1.9 billion OM&A?

28 MS. COBAN: We do set this out in the evidence in

1 exhibit 2B, E2, and I will be able to provide you a  
2 reference, if you would like one.

3 But essentially, in arriving at the \$4 billion and the  
4 \$1.956 billion, I think it was, operational limit, as we  
5 have set out in that evidence, we were guided at the outset  
6 with the objective of finding the appropriate balance  
7 between price and outcomes that customers care about, like  
8 reliability and investments in technology that will deliver  
9 long-term value.

10 So those budget limits that you see there and the way  
11 that they were developed through our planning process  
12 reflected that paramount objective that we had set out for  
13 the planning process, to strike that balance and to arrive  
14 at a plan that was both considering the price implications  
15 as well as the outcome implications of the various programs  
16 that we were developing and the options within it.

17 So we look at them as a package. But I think the key  
18 here is to understand how we arrived at the \$4 billion and  
19 the corresponding operational number, and what we were  
20 guided by in terms of the considerations that we went  
21 through in that iterative process to arrive at those budget  
22 limits.

23 MR. RUBENSTEIN: Is it a budget -- let me rephrase.  
24 Did you internally think of it as a budget limit or a price  
25 limit?

26 MS. COBAN: We thought of it as both.

27 MR. RUBENSTEIN: Can I ask you to turn to 1B-CCC-14?  
28 Moving down to A -- sorry, if you can scroll down? You

1 provide a table or a figure there. Do you see that,  
2 figure 1. Do you see that on the screen?

3 MS. STULBERG: Yes.

4 MR. RUBENSTEIN: Can you provide the underlying data  
5 and calculations for that, I assume the spreadsheet that  
6 sits underneath this that you created that table. And  
7 specifically, I am looking at the -- I am trying to better  
8 understand the calculations for the inflation-adjusted  
9 capex.

10 MS. STULBERG: Yes, we can do that.

11 MR. MURRAY: That will be Undertaking JT3.30.

12 **UNDERTAKING JT3.30: TO PROVIDE THE UNDERLYING DATA**  
13 **AND CALCULATIONS FOR FIGURE 1 IN 1B-CCC-14.**

14 MR. RUBENSTEIN: Can we go to 1B-SEC-1, and if we go  
15 to part A? So table 1 shows the 2024 revised closing rate  
16 base that is lower than the forecast in the application.  
17 That would then reduce the 2025 opening rate base? Do I  
18 have that right? These numbers are lower than those in the  
19 evidence?

20 MR. ZENI: Yeah, that is correct.

21 MR. RUBENSTEIN: Can you please provide revised rate  
22 base tables for 2025 to 2029, based on the updated  
23 2023/2024 numbers?

24 MR. ZENI: I believe the data is already in evidence,  
25 so we will provide a reference.

26 MR. RUBENSTEIN: All right. And if it's not, can you  
27 provide it?

28 MR. ZENI: Yes.

1 MR. MURRAY: That will be undertaking JT3.31.

2 **UNDERTAKING JT3.31: PROVIDE REVISED RATE BASE TABLES**  
3 **FOR 2025 TO 2029, BASED ON THE UPDATED 2023/2024**  
4 **NUMBERS OR TO PROVIDE THE REFERENCE IN THE EVIDENCE.**

5 MR. RUBENSTEIN: Can I ask if you can go to 1B-SEC-3.  
6 In this interrogatory, we ask for Toronto Hydro's corporate  
7 scorecards for each year, between 2020 to 2024, and provide  
8 year-end results for the measures. Do you see that?

9 MR. CLARK: Yes.

10 MR. RUBENSTEIN: Now, as I understand, each KPI has  
11 weights, correct? - and there's a threshold, a target and a  
12 stretch target for each metric. Do I have that right?  
13 It's not shown here, but that's my understanding of how  
14 your corporate scorecard works.

15 MR. CLARK: That's correct.

16 MR. RUBENSTEIN: Can you please provide then, for each  
17 of those years, the full corporate scorecard that shows the  
18 correct weightings, the thresholds, the targets, the  
19 stretch targets for each?

20 MR. STERNBERG: Mr. Rubenstein, I am not sure if that  
21 has been provided in the past, and pausing over the  
22 relevance of it. But, for right now, perhaps we can take  
23 that back and consider it, and either provide the requested  
24 information or, if we are not in a position to or have an  
25 objection to it, we will advise.

26 MR. RUBENSTEIN: Okay. Well, I just note that the  
27 2024 one is on the record in a different interrogatory, so  
28 you have provided at least that one; that is how I am aware

1 of what they look like. And that's in CCC-1, appendix B,  
2 page 62.

3 And I believe, just to note, that it is clearly  
4 relevant. And I think understanding performance and how  
5 the company sets its objectives is relevant.

6 MR. STERNBERG: Okay, thanks. We will consider it and  
7 advise, as I indicated.

8 MR. MURRAY: So will we mark that, just so we don't  
9 lose track of it, as an undertaking, for now. That will be  
10 JT3.32.

11 **UNDERTAKING JT3.32: TO PROVIDE FOR 2020-2024**  
12 **REFERENCED IN 1B-SEC-3, THE FULL CORPORATE SCORECARD**  
13 **THAT SHOWS THE CORRECT WEIGHTINGS, THE THRESHOLDS, THE**  
14 **TARGETS, THE STRETCH TARGETS FOR EACH.**

15 MR. RUBENSTEIN: Now I have one question about one  
16 KPI, and that is the in-service assets. I cannot reconcile  
17 the in-service, either targets and results, in any of the  
18 ones that you provided with either the OEB approved in-  
19 service numbers for those years, or the actuals. So what's  
20 the difference?

21 MR. ZENI: Each of these KPIs have a specific  
22 definition. When it gets to in-service additions, there  
23 are some things that, as an organization, are tracked, and  
24 some things that are excluding from the KPI, from the KPI  
25 definition.

26 MR. RUBENSTEIN: Can you provide by way of undertaking  
27 what's included in in-service additions for the scorecard,  
28 as compared to the OEB-approved numbers and your actual

1 numbers that you provide, obviously, in many -- in the  
2 other tables in the evidence?

3 MR. ZENI: Yes, we can provide that definition. Yes.

4 MR. MURRAY: That will be undertaking JT3.33.

5 **UNDERTAKING JT3.33: TO PROVIDE WHAT'S INCLUDED IN IN-**  
6 **SERVICE ADDITIONS FOR THE SCORECARD, AS COMPARED TO**  
7 **THE OEB-APPROVED NUMBERS AND YOUR ACTUAL NUMBERS**  
8 **PROVIDED IN THE OTHER TABLES IN THE EVIDENCE.**

9 MR. RUBENSTEIN: Can I ask you to go to 1B-SEC-5. In  
10 this interrogatory, we asked you about various benchmarking  
11 studies. And if we go to the next page, you will see under  
12 -- in the table that begins on line 5, there's a grid  
13 modernization benchmarking results study, which is entirely  
14 confidential. And I am not asking about the contents of  
15 it. But as I gave Ms. Coban the preview, I am trying to  
16 understand the date of the study.

17 MS. COBAN: So as you see there, right on the screen,  
18 the study was conducted in 2021. To be more specific from  
19 my understanding, and I will take this back and confirm, it  
20 was conducted in the first part of 2021.

21 MR. RUBENSTEIN: I believe that's a different  
22 document. It's the second one that is what was filed.

23 MS. COBAN: They are related, so you're looking at  
24 kind of two different products that relate to the same  
25 underlying study that was done.

26 MR. RUBENSTEIN: Now, as I understand based on your  
27 March 21st letter, what I thought was the first study, the  
28 Concentric grid modernization benchmarking study, [audio

1 dropout] refused to provide consent for you to file it,  
2 even on a confidential basis?

3 MS. COBAN: That's correct.

4 MR. RUBENSTEIN: So it's related to the second one?  
5 Maybe you can just...

6 MS. COBAN: It is the same study. It's a different  
7 presentation of outputs of the study. One is a summary, if  
8 you will call it, in a different kind of PDF format.  
9 That's the one that Accenture did not consent to. The  
10 other is a spreadsheet in a tabular format, comparing, you  
11 know, various inputs into the study. That's the one we  
12 filed confidentially.

13 MR. RUBENSTEIN: Okay, so the one you didn't file is  
14 the analysis or the rolled-up version?

15 MS. COBAN: We did not get consent to file that.

16 MR. RUBENSTEIN: And what is the basis of why you need  
17 to seek their consent?

18 MS. COBAN: It is my understanding that we had very  
19 restrictive confidentiality obligations that we had to  
20 adhere to as part of our participation in the study.

21 MR. RUBENSTEIN: Okay. Well, I'm going to ask you to  
22 file it anyways. As you know, the Board has on many  
23 occasions, including in Toronto Hydro proceedings, noted  
24 that an agreement between the utility and a third party is  
25 not a reason for non-disclosure of the document.

26 MR. KEIZER: Sorry, are you asking us now to file? Is  
27 that what you're asking?

28 MR. RUBENSTEIN: Yes.

1 MR. KEIZER: And I think that our letter of March  
2 still stands at this point.

3 MR. RUBENSTEIN: So that's a refusal?

4 MR. KEIZER: Yes.

5 MR. RUBENSTEIN: Okay. Thank you. Can I ask you to  
6 turn to 1B-SEC-66? In this interrogatory, we asked you to  
7 provide the budget guidance documents that were issued  
8 regarding the budgets that underlie this application, and  
9 you point us to your response in 1A-CCC-3, in which you  
10 declined to provide that information on the basis that, in  
11 your view, it's not probative.

12 MR. KEIZER: That would seem like what CCC-3 says.

13 MR. RUBENSTEIN: Yes. I'm having trouble  
14 understanding that. Obviously, there are instructions that  
15 were provided to the business units to help guide how you  
16 made determining your budgets. It's your view that that's  
17 not relevant? Is there any prejudice in providing that  
18 information? It's regularly provided when asked in  
19 interrogatories. I'm surprised by the response here.

20 MR. KEIZER: I think what the information is, is that  
21 -- I think the refusal stands on the basis of what's stated  
22 here, in CCC-3. That's the basis on which it's believed  
23 not to be probative. And, if you're seeking those  
24 documents by way of your examination today, the refusal  
25 still stands.

26 MR. RUBENSTEIN: Thank you very much. Can we go to  
27 1B-SEC-15C. And we had asked you here -- and just to be  
28 clear, just to back up for a second, to provide context,



1 this is with respect to the DRVA expenditure sub account  
2 proposal.

3 We had asked you if you were going to include the  
4 approved X factor into the calculation of the sub account  
5 balance, that being either the efficiency or the PIM  
6 component, and you say, as I read it, you don't. Do I have  
7 that right? It's a bit confusing.

8 MS. COBAN: I'm having a hard time hearing. Could you  
9 repeat the question?

10 MR. RUBENSTEIN: Well, let me just back -- ask the  
11 question because I found the answer somewhat confusing.

12 Do you plan to included the X factor, either the  
13 efficiency component or the PIM component, in the DRVA  
14 expenditure sub account, any balance or any calculation of  
15 that amount?

16 MS. COBAN: As we set out here, in our response to  
17 part C, we propose to track the base amount before the  
18 application of the X factor, and we feel that this approach  
19 protects the integrity of the X factor in that it doesn't  
20 give us an opportunity to earn it back through the DRVA, so  
21 it essentially sets a threshold, which is the value of the  
22 X factor, that we must exceed in order to get any  
23 incremental recovery in the DRVA.

24 MR. RUBENSTEIN: So let me give you an example of a  
25 hypothetical situation, and let's just focus on the PIM  
26 component, the 0.6. That's based on -- if you have a base  
27 amount in the application, and that is applied, the 0.6 is  
28 applied, to that. Correct?

1           It's in the revenue requirement calculation, so it is  
2 essentially reflected against the base amounts in the  
3 application. Correct?

4           For the expenditures that are tracked, the expenditure  
5 sub account will track against. Correct?

6           MS. COBAN: The basis for the amount that we're  
7 tracking the variances against is the revenue requirement  
8 associated with conducting the work, not the revenue that  
9 is funded through the custom rate formula. We're looking  
10 at the actual cost associated with that work, not what's  
11 been funded through rates, when we apply the X factor.

12           MR. RUBENSTEIN: No, I understand that. But this is  
13 what I'm trying to understand, is why you wouldn't do --  
14 why wouldn't you do that?

15           So let me give you an example, a hypothetical example,  
16 a very simple example. Imagine that the amounts of the  
17 DRVA expenditure sub account tracks is a hundred million  
18 dollars per year. It's a hypothetical amount. Right?  
19 When you're creating your rate framework, you're reducing  
20 that amount to be funded by the [audio dropout] because of  
21 the PIM component of the X factor. Right?

22           Now, say at the end of the day, you spend  
23 \$150 million, right, because of, you know, growth or for  
24 whatever reason. Right? My understanding is that the  
25 account will capture the revenue requirement representative  
26 of that \$50 million variance. Right?

27           MS. COBAN: Yes, but, if we were to track against  
28 the -- I'm sorry. I didn't mean to interject.

1 MR. RUBENSTEIN: Yes. So let me just understand. If  
2 that \$150 million was included in the base amount, you knew  
3 today that you were going to have that, you would have  
4 reduced some component of that additional \$50 million; the  
5 PIM would have been reduced by the PIM in how much you're  
6 recording. Do you understand? Does that make sense?

7 MS. COBAN: Yes, something less than that cost would  
8 be funded as a result of the PIM.

9 MR. RUBENSTEIN: And so why wouldn't you then, the  
10 balance in the account, also reflect the PIM?

11 For example, if you don't meet your targets, it  
12 reduces that amount.

13 MS. COBAN: If we were to do it in that way -- and  
14 perhaps I can offer you an undertaking where we can just  
15 show you the example so we're clear on this.

16 If we were to do it in that way, where we were  
17 tracking against -- let's say the effect of the PIM was to  
18 fund only \$90 million of that \$100 million, and then, in  
19 actuals, we spend 150. In the approach that you've  
20 recommended or suggested, we're actually recovering  
21 \$60 million because we're recovering the difference between  
22 the 90 that's funded and the 150 in actuals, so we're  
23 recovering the impact of the PIM through the DRVA in that  
24 example.

25 That's why we don't propose to do it this way. We  
26 propose to track against the actual revenue requirement  
27 associated with doing the work.

28 MR. RUBENSTEIN: All right. Thank you very much. Can

1 I ask you -- just give me a second, if you don't mind. Go  
2 to 1B-SEC-20.

3 MR. MURRAY: Mr. Rubenstein, I'm wondering -- I'm  
4 looking at the time -- if for our second afternoon break,  
5 would now be a good time for a 10-minute break?

6 MR. RUBENSTEIN: Sure.

7 MR. MURRAY: Okay. Why don't we come back at 4:05.

8 --- Recess taken at 3:55 p.m.

9 --- On resuming at 4:07 p.m.

10 MR. MURRAY: We're back at the technical conference,  
11 Mr. Rubenstein, please continue with your questions.

12 MR. STERNBERG: I understand there's one brief  
13 clarification to an earlier answer that one of the panel  
14 members would like to give, we thought it would be -- makes  
15 sense to deal with that now before carry on with the next  
16 questions.

17 MR. MURRAY: Agreed.

18 MR. CLARK: So, I will just refer to 1B-AMPCO-07. The  
19 question in that interrogatory was whether or not it was  
20 OM&A or capex. And we said subject to review. And it is  
21 actually over 95 percent OM&A, but there is a small portion  
22 of cap ex.

23 MR. RUBENSTEIN: I was going to bring you to an  
24 interrogatory, but maybe before that, I just have one  
25 question, since the IRs were filed the OEB has initiated a  
26 generic hearing on cost of capital, as you're aware of. I  
27 was just wondering -- want to understand if the outcome of  
28 that active proceeding has any impact on this application,

1 or would it have any impact on this application?

2 MS. COBAN: The cost of capital proposal, the  
3 parameters that we have in the application here, stand on  
4 their own merits in terms of the evidence we have in  
5 Exhibit 5. It's difficult to speculate on what may happen  
6 in the proceeding, and what decisions the Board may provide  
7 or guidance may provide, but at least based on what we know  
8 and understand today, we're bringing forward the  
9 application under the cost of capital parameters that's set  
10 out in the evidence.

11 MR. RUBENSTEIN: And so, just to clarify. So, for  
12 example, if the Board ultimate determination is that the  
13 capital structure for the electricity distributors changed  
14 due to the proposal, would that impact this application,  
15 and the relief you're seeking??

16 MR. KEIZER: Mr. Rubenstein, wouldn't that have to be  
17 set out at the time that the decision was made by the  
18 Board? I don't think it's fair to speculate as to what the  
19 Board may say the parameters of it and what the start or  
20 end date in relation to it. So, I think that's a difficult  
21 question for the witness to address.

22 MR. RUBENSTEIN: Sorry, is your application  
23 notwithstanding whatever the default, any default changes  
24 that may occur. You're sticking by, say, the capital  
25 structure that's being sought in this application?

26 MR. KEIZER: No, I think the witness has indicated  
27 that based on what she knows, that the application is based  
28 upon what is as filed, and that she can't necessarily

1 predict or what the parameters of the Board's decision  
2 would be in respect of the cost of capital, and because  
3 otherwise it would be speculation.

4 MR. RUBENSTEIN: Can I ask you to turn to 1B-SEC-20.  
5 I have a couple questions about the performance incentive  
6 measures. So, we had asked you in part A to provide  
7 details of all performance incentive measures that Toronto  
8 Hydro considered, but ultimately rejected. And,  
9 ultimately, you didn't provide those measures in your  
10 response. As I read, as I interpret the response, in your  
11 view there's no probative value in understanding what other  
12 measures were considered. Is that how I should read that  
13 response?

14 MR. KEIZER: Yes, I think the refusal is on the  
15 record. I think the issue, if you're trying to understand  
16 the position of Toronto Hydro, I think it's indicated there  
17 with respect to the fact that the Board is assessing in  
18 this application the scorecard that has been proposed, and  
19 the basis on which to go forward. Not evaluating or re-  
20 evaluating other things that were either thought, or  
21 contemplated, or could have been thought or contemplated.  
22 It's the scorecard as is proposed, it's relevant and before  
23 the Board.

24 MR. RUBENSTEIN: And so, in your view, this is a new  
25 proposal? In your view, understanding which other metrics  
26 may have been considered is not relevant?

27 MR. KEIZER: That's right. It's not relevant.

28 MR. RUBENSTEIN: Can I ask you to turn -- and so I

1 take it, then, the rejection -- the refusal stands?

2 MR. KEIZER: Yes, it does.

3 MR. RUBENSTEIN: Can I ask you to turn to 1B-CCC-18?  
4 CCC-18. In the response, you say in developing its custom  
5 scorecard measures, Toronto Hydro drew upon Hawaii,  
6 Washington, Massachusetts, and New York and U.K., the  
7 resulting scan groups key performance indicators, KPIs,  
8 identified in these jurisdiction into 62 categories which  
9 Toronto Hydro organized into four categories outlined in  
10 the OEB's renewed regulatory framework of customer focused  
11 operational effectiveness, public policy responses, and  
12 financial performance. Do you see that?

13 MS. COBAN: Yes.

14 MR. RUBENSTEIN: Can you provide that scan of the KPIs  
15 in other jurisdictions that were grouped into those  
16 categories?

17 MS. COBAN: Yes.

18 MR. MURRAY: That will be undertaking JT3.34.

19 **UNDERTAKING JT3.34: TO PROVIDE THE SCAN OF THE KEY**  
20 **PERFORMANCE INDICATORS IN OTHER JURISDICTIONS.**

21 MR. RUBENSTEIN: Can I ask you turn to 1B-SEC-19. In  
22 part A we asked with respect to the Scott Madden  
23 jurisdiction review, for each of the jurisdiction reviewed,  
24 a summary of all components of the respective rate and  
25 regulatory frameworks.

26 And in the response Scott Madden provides a summary,  
27 but only of the ARM, the PIM, the cost recovery, and I  
28 understand when he uses the term cost recovery it's talking

1 about cost recovery about alternative mechanisms for clean  
2 initiative, and innovation funding, but what is the missing  
3 it the general rate framework, which is really what the  
4 question was asking. Can you provide that information or,  
5 more appropriately, ask Scott Madden to provide that  
6 information?

7 MR. KEIZER: So, just to be clear, you're asking for  
8 the general framework that these aspects fit into, is that  
9 what you're asking?

10 MR. RUBENSTEIN: Yes.

11 MR. KEIZER: So, for example, just so we can be clear,  
12 what do you mean by the general rate frameworks?

13 MR. RUBENSTEIN: Cost of service, some sort of details  
14 if there's an incentive regulatory regime, because as you  
15 can imagine, these are mechanisms, obviously, fit within a  
16 broader picture, much like Toronto Hydro's mechanisms that  
17 it's seeking here that fits within a broader context of its  
18 proposals and that are not discussed in any of the  
19 responses -- or any of the framework overview. That was  
20 the information we were really seeking there.

21 MS. COBAN: Yes, I think we can take that back and  
22 look at the general rate framework in terms of whether it's  
23 performance based regulation or some other type of general  
24 framework. I think the specifics might be more  
25 challenging, but the kind of general umbrella of what type  
26 of regulation it is, that could be doable.

27 MR. KEIZER: Yes, we'll ask Scott Madden to address  
28 that.



1 MR. RUBENSTEIN: That's okay. But you'll give the  
2 undertaking you give. But I would be clear, you know, just  
3 saying incentive rate comes in many shapes and sizes and  
4 understanding the details, I think, is important to  
5 understanding -- for the Board also to understand the  
6 context of these approvals for those other jurisdictions to  
7 be clear on why they were created.

8 MR. KEIZER: Sorry, you've lost me, so what do you  
9 want? You want case summaries? Is that what you're asking  
10 for?

11 MR. RUBENSTEIN: I'm just -- a general understanding  
12 of the rate framework. But this is to Ms. Coban's comment  
13 while we could tell you if it's incentive regulation --  
14 what does that mean? Incentive regulation means many  
15 different things in many different jurisdictions. So, a  
16 general idea of what their rate framework looks like.

17 MR. KEIZER: Well, we'll do it on a best efforts  
18 basis, we'll pose the question and see what Scott Madden  
19 comes back with.

20 MR. MURRAY: That will be undertaking JT3.35.

21 **UNDERTAKING JT3.35: REFERRING TO 1B-SEC-19A, TO**  
22 **INQUIRE WITH SCOTT MADDEN AND PROVIDE ADDITIONAL**  
23 **INFORMATION ABOUT THE COMPONENTS OF THE RESPECTIVE**  
24 **RATE AND REGULATORY FRAMEWORKS IN THEIR JURISDICTION**  
25 **REVIEW; TO CLARIFY THEIR DEFINITION OF IRM.**

26 MR. RUBENSTEIN: Can I ask you to go to 1B-CCC-1,  
27 Appendix A.

28 MS. COBAN: I think that's 1A-CCC-1.

1 MR. RUBENSTEIN: That's. Yes, that's the document I'm  
2 looking at. If you can go down, I think it was Appendix A,  
3 I think you have Appendix B open. If we can go down to  
4 slide 10.

5 Beginning in slide 10, and then through the next four  
6 slides, you have a number of tables that are similar here  
7 that shows a number of outcomes and then depending on the  
8 three, how those outcomes perform. Do you see that?  
9 They're colour coded.

10 MS. COBAN: Yes.

11 MR. RUBENSTEIN: And I take it when we're talking  
12 about the 2025 to 2029 business plan, that's this  
13 application, correct?

14 MS. COBAN: No. That would be the draft plan, at that  
15 time.

16 MR. RUBENSTEIN: What is "status quo option" here?  
17 What does that represent?

18 MS. COBAN: Subject to check, I just want to take this  
19 back and confirm, but I understand that what you see here  
20 are the options that were developed through the capital  
21 planning process, where we moved from the initial plan to  
22 the draft plan, and the various options that were  
23 considered, which are discussed in exhibit 2B, section E2.

24 MR. RUBENSTEIN: Now is there some document or  
25 analysis that sits below this presentation that, in greater  
26 detail, provides how you are deriving each of the outcomes  
27 for the next four pages? This reads like a summary,  
28 obviously. Are there some documents that are underneath

1 this?

2 MS. COBAN: I am not aware of any.

3 MR. RUBENSTEIN: Then how were these four pages  
4 developed?

5 MS. COBAN: It's my understanding that what you see  
6 here is a summary that was prepared by the subject matter  
7 experts, some of which appeared on panels 1 and 2, which  
8 were involved in the capital planning process. And it  
9 reflects the considerations of the other options that you  
10 see here, along with the draft plan, and the many  
11 discussions and iterations that unfolded in 2022 as we  
12 considered these options and arrived at the draft plan.

13 MR. RUBENSTEIN: Thank you, very much. Can I ask you  
14 to turn to 1-PP-19B? That's 1 Pollution Probe 19B. And in  
15 the table, as I understand it, it shows various innovation  
16 funds that Scott Madden talked about, the objectives, and  
17 characteristics and cost-recovery mechanisms. Do you see  
18 that?

19 MS. COBAN: Yes.

20 MR. RUBENSTEIN: I am wondering if you can ask Scott  
21 Madden to expand the table to provide -- to tell us in each  
22 jurisdiction who determines what projects or initiative  
23 gets funding, and if there's specific approval criteria  
24 and, if there are, what are they?

25 MR. KEIZER: Yeah, we can ask Scott Madden that. When  
26 you say "who", you mean who the deciding authority is?

27 MR. RUBENSTEIN: In my understanding in some  
28 jurisdictions, it's not the utility who actually

1 administers or determines projects; it may be another  
2 entity. I don't mean who, within the utility; that's not  
3 what I meant.

4 MR. KEIZER: Who within the regulatory process is  
5 governed by these? That's what you're asking?

6 MR. RUBENSTEIN: Sorry, I didn't catch that.

7 MR. KEIZER: It is within the regulatory process  
8 governed by these. That is what you are asking about, when  
9 you say "who"?

10 MR. RUBENSTEIN: Yeah.

11 MR. MURRAY: That will be undertaking JT3.36.

12 **UNDERTAKING JT3.36: REFERRING TO 1-PP-19B, THE TABLE**  
13 **SHOWING INNOVATION FUNDS, TO IN EACH JURISDICTION WHO**  
14 **WITHIN THE REGULATORY PROCESS DETERMINES WHAT PROJECTS**  
15 **OR INITIATIVE GETS FUNDING, AND IF THERE'S SPECIFIC**  
16 **APPROVAL CRITERIA AND, IF THERE ARE, WHAT ARE THEY.**

17 MR. RUBENSTEIN: Can I ask you to turn to 4-SEC-90?  
18 So in this interrogatory, we asked you to provide a revised  
19 version of appendix 2C that shows Toronto Hydro's internal  
20 budget amounts for each year between 2020 and 2024. And  
21 you declined to provide it on the basis that, in your view,  
22 it's not relevant and provides no probative value.

23 Do I understand Toronto Hydro to be saying in its view  
24 it is not relevant for parties and the Board to understand  
25 how, in the OM&A area, Toronto Hydro's actual cost  
26 performance actually performs against its budget in a given  
27 year? Any prejudice in providing this information?

28 MR. KEIZER: It's not the basis of the Board's

1 assessment and review.

2 MR. RUBENSTEIN: Understanding how the company  
3 performs against its budget?

4 MR. KEIZER: Understanding how the company performs  
5 relative to the approved envelope and the basis upon which  
6 its proposed envelope is created is what is relevant before  
7 the Board. That's why we don't see the internal budget's  
8 relevance.

9 So, if you are asking for them to be produced, the  
10 refusal still stands.

11 MR. RUBENSTEIN: All right. I will just note that  
12 this is different. This is especially important in this  
13 context, where we don't -- we have not had multiyear OM&A-  
14 approved budgets. This is the first time that the company  
15 is seeking one. We say it is especially important to  
16 understand Toronto Hydro's historical performance against  
17 the budget for OM&A.

18 The refusal still stands?

19 MR. KEIZER: It doesn't change the position of Toronto  
20 Hydro. It is still the ability to actually perform  
21 relative to an approved envelope. So that's relevant to  
22 the Board.

23 MR. RUBENSTEIN: Can I ask you to go to 4-SEC-116? So  
24 maybe before we talk about it, just some background: I  
25 understand you were asked in 4-SEC-112 and 4-AMPCO-84A to  
26 provide a version of 2K, broken down into nonmanagement,  
27 PWU Society and non-union, and you have refused.

28 But what you did provide was you broke down the

1 nonmanagement into union and non-union. Do I have that  
2 right? And so now the categories are management, union and  
3 non-union?

4 MR. CLARK: Sorry, can you refer specifically to what  
5 component of the AMPCO 84 response?

6 MR. RUBENSTEIN: Maybe we can pull it up. We had  
7 asked you in interrogatory to break it down by some amount;  
8 you pointed us here.

9 They had asked you then to break down your 2K into  
10 management, executive, union and non-union, separately.  
11 And you did that, correct? Okay.

12 Can we now go to 4-SEC-116? Please go down to --  
13 flip -- go down to, in parts A and B of this response,  
14 there's a couple of tables that Mercer provided that show  
15 the number of employees in each of the categories in their  
16 study, against the total employees benchmarked. Do you see  
17 that?

18 MR. CLARK: Yes.

19 MR. RUBENSTEIN: I am wondering if you could provide a  
20 revised version of those tables that show the total number  
21 of employees in each of the four categories from the AMPCO-  
22 84A: management, executive, union and non-union, and the  
23 total amounts that are benchmarked.

24 And then the total amount of compensation that was  
25 part of the benchmarked amounts in those categories.

26 MR. STERNBERG: Mr. Rubenstein, I understand this is a  
27 request you are making of Mercer to expand their answer. I  
28 am not pausing over how that relates to the methodology and

1 scope of the study -- or not scope, but methodology of  
2 their study. What we'll do is undertake to relay the  
3 request to them, and, if they're able to reasonably do  
4 that, they will, and, if not, we will advise.

5 MR. RUBENSTEIN: Sure. Just to be clear, it may  
6 involve Toronto Hydro, also, because I'm asking for the  
7 amount of actual compensation that is benchmarked.

8 Just to give you, to provide, some colour here, I mean  
9 here we had asked you for the 2-K broken down by employee  
10 groups in the study. You refused to do it and provide it -  
11 - and were willing to do it in a different way. So now I  
12 need to translate, in some aspects, part of that study in  
13 the way that you're willing to provide it, just so you  
14 understand where some of these questions are going.

15 MR. STERNBERG: Okay. Thanks. That's helpful. We'll  
16 take it back to Mercer and, as need be, confer with Toronto  
17 Hydro, and, if we're in a position to provide the  
18 information or Mercer is, we will, and, if not, we'll  
19 advise.

20 MR. RUBENSTEIN: Can I ask you to turn to --

21 MR. MURRAY: Before we do -- hold on. Let's get that  
22 a number, JT3.37.

23 **UNDERTAKING JT3.37: TO PROVIDE A REVISED VERSION OF**  
24 **THOSE TABLES THAT SHOW THE TOTAL NUMBER OF EMPLOYEES**  
25 **IN EACH OF THE FOUR CATEGORIES FROM THE AMPCO-84A:**  
26 **MANAGEMENT, EXECUTIVE, UNION AND NON-UNION, AND THE**  
27 **TOTAL AMOUNTS THAT ARE BENCHMARKED; AND THEN THE**  
28 **TOTAL AMOUNT OF COMPENSATION THAT WAS PART OF THE**

1           **BENCHMARKED AMOUNTS IN THOSE CATEGORIES.**

2           MR. RUBENSTEIN: Can I ask you to go to part C. Just  
3 so we understand the question here, we had asked:

4                   "For each of Toronto Hydro's groups, please  
5                   provide an estimate of the dollar difference  
6                   between the weighted average total compensation  
7                   for Toronto Hydro's employees and the P15 medium  
8                   used in the study. Please provide the amount for  
9                   the year the study is representative of and then,  
10                  for each year up to 2029 please provide a step-  
11                  by-step explanation of how the estimate was  
12                  reached, including all supporting calculation so  
13                  the numbers can be verified."

14          Now, in the response, there's a lengthy commentary by  
15 Mercer, that it believes that the plus or minus 5 percent  
16 is the appropriate way to do it, and it provides that in  
17 Table 3. But then, in Table 4, it provides what, as I  
18 understand, the number that was actually requested in the  
19 interrogatory.

20          And, when I read the explanation that starts on that  
21 page, between line 2 and line 9, I will be honest, I'm  
22 quite confused because it still talks about it being above  
23 or below the plus or minus 5 percent, but it goes back to  
24 the part of the question that was not responded to, which  
25 is to provide a step-by-step explanation of how the  
26 estimates were reached and all supporting calculation so  
27 the number can be verified.

28          Can you please provide that information?



1 MR. STERNBERG: Again, this is a request for Mercer,  
2 so we'll relay the request to them and see if they are in a  
3 position to provide more detail in respect of how they did  
4 the calculation that you see in the response.

5 MR. RUBENSTEIN: Okay. Well, clearly, they did the  
6 calculation. There's a bunch of -- they took the study,  
7 gathered some numbers, and got to that response.

8 MR. STERNBERG: Yes, as I'm reading the response, I  
9 think they gave some explanation or some description of  
10 how, of their methodology. I understand you're wanting  
11 more detail on it, so we'll relay that request and see what  
12 they come back with.

13 MR. RUBENSTEIN: Just to be clear, not just more  
14 written detail, to understand -- see the numbers, that they  
15 can be verified that the numbers, if you take the study and  
16 get to this number, all the steps, including all the  
17 numbers.

18 MR. STERNBERG: We can talk offline, unless you want  
19 to indicate what the relevance is to the numbers. You want  
20 to check their math? Help me understand, other than  
21 understanding the methodology and detail.

22 MR. RUBENSTEIN: Both. I think it's better. It's  
23 helpful to understand the methodology. Obviously, it's not  
24 a perfectly simple exercise, as I take it from the  
25 response, but also to provide the results.

26 MR. STERNBERG: Okay. Again, we'll relay the request  
27 and advise you what they come back with.

28 MR. RUBENSTEIN: That's fine. Now --

1 MR. MURRAY: That will be undertaking JT3.38.

2 **UNDERTAKING JT3.38: TO RESPOND WITH MORE DETAIL TO**  
3 **AMPCO-34C, INCLUDING THE METHODOLOGY AND RESULTS.**

4 MR. RUBENSTEIN: Now, at line 10, Mercer says:

5 "The dollar difference values beyond the year of  
6 the current study are not available and cannot be  
7 done in a manner that [audio dropout] substantive  
8 results because the methodology of the study  
9 reflects a point-in-time approach. Specifically,  
10 the study was not designed to be forward looking.  
11 Its purpose was to assess the competitive  
12 position of Toronto Hydro on an overall basis  
13 compared to 2022 market rates."

14 Do you see that?

15 MR. CLARK: I'm sorry. Which letter are we looking at  
16 here?

17 MR. RUBENSTEIN: I'm looking on the screen. This is  
18 part C and beginning in line 10 on that page.

19 MR. CLARK: Okay. Yes, I see it.

20 MR. RUBENSTEIN: Now, this is really for you to go  
21 back to Mercer. I was a bit confused by that response,  
22 only the fact that Mercer has done that analysis before.  
23 In fact, it did it in the Hydro One JRAP proceeding. I can  
24 draw your attention to, in that proceeding, the 2022-011  
25 [audio dropout] them through you to E-SEC-212 and  
26 JT5.10.20. So would I ask you to go back to them and ask  
27 them again, and, if there's a reason why they were able to  
28 do it there and they can't do it here, a similar

1 compensation study, similar question.

2 MR. STERNBERG: My recollection is there was a  
3 difference in that proceeding in terms of the scope of  
4 their study, including that they did a forecast study, as  
5 well, projecting forward. So I think there may be a  
6 difference, but it's -- more importantly, we'll relay the  
7 request to Mercer, and they will advise if they can do it,  
8 and, if they can't, they'll further explain why they can't  
9 do it and what the reason for that is.

10 MR. MURRAY: That will be undertaking JT3.39.

11 **UNDERTAKING JT3.39: TO ASK MERCER WHY THEY WERE ABLE**  
12 **TO MAKE A COMPENSATION STUDY IN THE JRAP PROCEEDING,**  
13 **AND WHY THEY CAN'T DO A SIMILAR COMPENSATION STUDY IN**  
14 **THIS CASE.**

15 MR. RUBENSTEIN: Can we go down to the next page. All  
16 right, one second. Just hold on. Give me a moment,  
17 please. Can we go back to page 4 of that response? In the  
18 discussion -- you can see this at line 14 -- Mercer says:

19 "The PWU employee population was not compared to  
20 the general industry peer group given the energy-  
21 specific responsibility seed in the majority of  
22 the PWU benchmark positions, benchmark jobs."

23 Do you see that?

24 MR. CLARK: Yes, I do.

25 MR. RUBENSTEIN: Can we go to Exhibit 4, Tab 4,  
26 Schedule 5, Appendix B? This is the study, Appendix B of  
27 the study. Go to Appendix B of that study. It's the last  
28 page, I believe. If we can, scroll down to the bottom of

1 the page, where it shows the number of bargaining -- it  
2 shows the bargaining positions which were included in the  
3 review.

4 Can I ask you to ask Mercer, for the PWU positions  
5 specifically, the total number of benchmarked employees for  
6 each of those positions?

7 So that's, sorry, just to be clear again -- I  
8 apologize -- for each of those PWU positions, the total  
9 employees in those positions of Toronto Hydro compared to  
10 the total employees that are benchmarked for those  
11 positions.

12 MR. STERNBERG: On a best efforts basis, we'll make  
13 that request of Mercer.

14 MR. RUBENSTEIN: Thank you very much.

15 MR. MURRAY: That will be undertaking JT3.40.

16 **UNDERTAKING JT3.40: TO INQUIRE OF MERCER, FOR THE PWU**  
17 **POSITIONS SPECIFICALLY, THE TOTAL EMPLOYEES IN THOSE**  
18 **POSITIONS OF TORONTO HYDRO COMPARED TO TOTAL EMPLOYEES**  
19 **THAT ARE BENCHMARKED FOR THOSE POSITIONS.**

20 MR. RUBENSTEIN: Can I ask, can I ask you to turn to  
21 4-CCMBC-20B? A similar question was asked in SEC-15 about  
22 the makeup of the general industry comparator. In both  
23 responses, Mercer comments that we, both SEC and CCMBC  
24 misunderstood those, that the companies listed in Appendix  
25 A for that category does not reflect the total universe of  
26 that sample of the general industry comparative group, in  
27 fact there's 90 organizations. Can you please provide a  
28 list of the 90 organizations? Or ask you to ask Mercer to

1 provide the 90 organizations?

2 MR. STERNBERG: We'll relay the request to Mercer.  
3 I'm not sure if there's any concern on their part with --  
4 from a confidentiality perspective or otherwise with  
5 disclosing all of those names, but we'll relay the request,  
6 and if they're in a position to provide it we will, if not  
7 we will advise.

8 MR. MURRAY: That will be undertaking JT3.41.

9 **UNDERTAKING JT3.41: TO ASK MERCER TO PROVIDE A LIST**  
10 **OF THE 90 ORGANIZATIONS.**

11 MR. RUBENSTEIN: Can I ask you to turn to 5-VECC-77.  
12 And in part B, and this is also discussed in D, you talk  
13 about the 5 basis point admin fee added to the long term  
14 debt.

15 In part D you were asked about the costs. Go down to  
16 part D. You were asked to explain the costs -- please  
17 explain what cost the administration fee recoups as  
18 distinct from the various costs that are included in the  
19 OM&A budget, and you discuss that. Do you see that?

20 MR. ZENI: Yes.

21 MR. RUBENSTEIN: Are you able to provide all the  
22 issuances during the current rate term, the actual  
23 administration costs that you did incur, and compare them  
24 against the interest that is recovered based on the 5 basis  
25 points admin fee, included in the -- added to the long term  
26 debt issuance?

27 MR. ZENI: We don't necessarily track each of these  
28 individual type of expenditures in isolation. These are

1 the type of activities that the treasury department will  
2 undertake for the various issuances. Is the ask to provide  
3 individual costs or the aggregate of the costs?

4 MR. RUBENSTEIN: I'm looking for all the issuances.  
5 What are the -- there is a certain -- as I understand, the  
6 5 percent administration fee that's added to the long term  
7 debt rate for any issuance is for administration costs that  
8 you don't recover through OM&A, and you provide details of  
9 what those look like. Do I understand that correct?

10 MR. ZENI: Correct.

11 MR. RUBENSTEIN: And I want to understand, for each of  
12 the issuances that you've had during the rate term, what  
13 are those costs, in aggregate, for each of those issuances.  
14 So I can compare them against what -- or you can compare  
15 them against what the impact of that 5 percent  
16 administration fee.

17 MR. ZENI: Yes, we can undertake that.

18 MR. RUBENSTEIN: Thank you very much.

19 MR. MURRAY: That will be undertaking JT3.42.

20 **UNDERTAKING JT3.42: FOR EACH OF THE ISSUANCES DURING**  
21 **THIS CURRENT RATE TERM, SO BEGINNING IN 2020, SO FOR**  
22 **EACH OF THEM, THE ACTUAL ADMINISTRATION COST THAT**  
23 **TORONTO HYDRO INCURRED AS COMPARED TO THE IMPACT OF**  
24 **THE 5 PERCENT BASIS POINTS THAT YOU'RE COLLECTING.**

25 MR. RUBENSTEIN: And so, just so it's clear, because  
26 I'm not sure I was clear, so just so it's clear for the  
27 record, I'm seeking for each of the issuances during this  
28 current rate term, so beginning in 2020, so for each of

1 them, the actual administration cost that Toronto Hydro  
2 incurred as compared to the impact of the 5 percent basis  
3 points that you're collecting.

4 MR. ZENI: Correct.

5 MR. RUBENSTEIN: Okay. Thank you. Can I ask now if  
6 you can turn to 9-Staff-343C? And this is with respect to  
7 the, as I understand, the DRVA account, and you talk about  
8 that the prudence of the expenditures in this account will  
9 be supported by detailed evidence which will be filed in  
10 the 2030 rebasing application. And so I -- do I have that  
11 correct? That's the plan?

12 MS. COBAN: That's correct.

13 MR. RUBENSTEIN: And will both sub accounts -- is the  
14 plan to dispose of them for the first time in the 2030  
15 application, both the revenue and expenditure sub accounts?

16 MS. COBAN: That's correct.

17 MR. RUBENSTEIN: So, assuming that the 2030  
18 application plays out on a similar timeline as compared to  
19 the current application, you would be recovering costs, or  
20 you would be seeking to recover or credit, or essentially  
21 seeking to dispose of those accounts for the 2025 to 2027  
22 period?

23 MS. COBAN: We would have actuals up to 2028 at this  
24 point in the process, 2029 would be our bridge year.

25 MR. RUBENSTEIN: So -- well, in this application  
26 you're seeking to dispose of -- you're seeking to dispose  
27 of DVA balances to what year?

28 MR. ZENI: So, for group 2 accounts, we are proposing

1 to dispose them based on forecasting basis up to 2034.

2 MR. RUBENSTEIN: Is that your proposal with respect to  
3 the DRVA? You'll do it on a forecast up to the end of the  
4 bridge year?

5 MR. ZENI: Yes, that's correct.

6 MR. RUBENSTEIN: And how would that work with respect,  
7 for example, the revenue variance account? You won't know  
8 -- very hard to forecast what the revenue would be in that  
9 year, in a given year, even weather normalized.

10 MS. COBAN: That's right. So, with respect to the  
11 expenditure sub account, we would be looking for similar  
12 treatment with the other group DVAs that Mr. Zeni talked  
13 about on the revenue sub account, you are correct, that  
14 we'd have to dispose up to the 2027 balances and then have  
15 a further disposition in the annual updates.

16 MR. RUBENSTEIN: Okay. So, that's my -- you're  
17 getting to my next question, then with the 2028 and 2029  
18 balances be disposed of at the following rebasing  
19 application, which would be for 2035 rates or before?

20 MS. COBAN: We'd be looking at doing that in the  
21 annual updates.

22 MR. RUBENSTEIN: Thank you very much. Can I ask you  
23 to turn to 9-Staff-344C. In part A or part B, just scroll  
24 up a moment. No, part A, I apologize. Just scroll down a  
25 bit for a second, sorry. You provide -- for the 2019 year,  
26 you provide an ESM calculation, but it explains how your --  
27 for triple R purposes you're calculating the ROE? Do I  
28 have that right, what that's showing?



1 MR. ZENI: Sorry, can you repeat the question again?

2 MR. RUBENSTEIN: I just want to understand the table,  
3 while it -- the final line is a comparison against, in my  
4 understanding, an ESM calculation. The rest of the table  
5 is, essentially, explaining the adjustments you make to get  
6 to the ROE. Correct?

7 MR. ZENI: Correct.

8 MR. RUBENSTEIN: I was wondering, and in part C you  
9 talk about the preliminary ROE for 2023 is 6.8 percent?

10 MR. ZENI: Yes.

11 MR. RUBENSTEIN: I was wondering if you could provide  
12 a similar table that shows how you get to the ROE, the  
13 adjustment, for 2023, and then provide an explanation of  
14 the drivers of the under-earning in 2023?

15 MR. ZENI: Yes, we can take that undertaking.

16 MR. MURRAY: That will be undertaking JT3.43.

17 **UNDERTAKING JT3.43: REFERRING TO 9-STAFF-344C: TO**  
18 **PROVIDE A SIMILAR TABLE THAT SHOWS HOW YOU GET TO THE**  
19 **ROE, THE ADJUSTMENT, FOR 2023, AND THEN PROVIDE AN**  
20 **EXPLANATION OF THE DRIVERS OF THE UNDER-EARNING IN**  
21 **2023**

22 MR. RUBENSTEIN: Can I ask you to go to 6-SEC-120.  
23 And you provided a table that we had asked you to that  
24 shows the deficiencies, and you see it on the bottom line.

25 I was wondering if you can provide a revised version  
26 of that table that shows the deficiency as compared to the  
27 2024 rates in every -- 2024 rates at the forecast load, not  
28 the previous. What you've done, as I understand, is the

1 2026 deficiency is against the 2025 approved rates and so  
2 on. But I'm looking at it against the 2024 approved rates  
3 for each year.

4 MR. ZENI: Sorry, do you mind repeating the question?

5 MR. RUBENSTEIN: Sure. As I understand this table and  
6 how you have calculated the deficiency, it's based on the  
7 previous year's approved rates.

8 For example, in 2026, you're comparing -- you are  
9 essentially taking the load forecast as compared to what  
10 would be your proposed 2025 rate, and compared against the  
11 revenue requirement and the load you needed.

12 I am asking you for a similar calculation, but for  
13 every year the distribution rates are the currently  
14 approved 2024 rates, so we can see what is the total  
15 deficiency against the last Board-approved rates.

16 MR. ZENI: Yes, we can provide that.

17 MR. RUBENSTEIN: Thank you, very much.

18 MR. MURRAY: That will be undertaking JT3.44.

19 **UNDERTAKING JT3.44: TO PROVIDE A REVISED VERSION OF**  
20 **THE TABLE IN 6-SEC-120 SHOWING DEFICIENCY AS COMPARED**  
21 **TO THE 2024 RATES AT THE FORECAST LOAD.**

22 MR. RUBENSTEIN: Can I ask you to turn to 8-SEC-125?  
23 And so we asked you to provide a table that shows for each  
24 year between 2012 and 2029, for each rate class,  
25 essentially the rates broken down into four categories.

26 And, in your response, you provide what is essentially  
27 the bill impact on a bill-impact basis, broken down by  
28 those categories. But I wasn't looking for the bill-impact

1 basis on a typical customer; I was looking for the actual  
2 rates.

3 Can you provide that?

4 MS. DOLZHENKOVA: Yes, we can provide that.

5 MR. MURRAY: That will be undertaking JT3.45.

6 **UNDERTAKING JT3.45: TO REVISIT THE RESPONSE TO 8-SEC-**  
7 **125 AND TO INCLUDE ACTUAL RATES.**

8 MR. RUBENSTEIN: And just give me a second to just  
9 check my notes. Thank you, very much. Those are my  
10 questions.

11 MR. MURRAY: Thank you, very much, Mr. Rubenstein. I  
12 realize we are close to five o'clock, but at the same  
13 point, I also know that we are sort of touch and go in  
14 terms of getting our schedule done on time.

15 So I want to check if Mr. Ladanyi is ready to start  
16 off and if he has a couple of discrete areas that he can  
17 kind of knock off in about 10 minutes, that might be the  
18 preferable course forward.

19 MR. LADANYI: Thank you, Mr. Murray. Yes, I do.

20 **EXAMINATION BY MR. LADANYI:**

21 My name is Tom Ladanyi, and I am a consultant  
22 representing the Coalition of Concerned Manufacturers and  
23 Businesses of Canada. And if you read the transcripts from  
24 panel 1, you know that the coalition was formed in 2016 by  
25 a group of 418 former members of the Canadian Manufacturers  
26 and Exporters.

27 So that we know what is at stake in this proceeding, I  
28 understand that you are requesting OEB approval of rate

1 increases shown in an exhibit that you filed on April 2.  
2 So please turn to 1B, tab 1, schedule 3, page 3, table 2,  
3 updated April 2, 2024. Yes, thank you. That's it.

4 So, in looking at that table, I see that you are  
5 seeking rate -- approval for rate increases of 13 percent  
6 or higher in 2025 for my clients. Is that right?

7 MS. DOLZHENKOVA: If you mean GS 50 TO 1000, that's  
8 correct.

9 MR. LADANYI: Thank you. So just in general terms,  
10 and I don't want you to do any calculations, why are you  
11 seeking rate increases of 13 percent for commercial and  
12 industrial customers, and only 7.6 percent for residential  
13 customers?

14 MS. DOLZHENKOVA: The key reason for the variances  
15 between the two is related to the outputs off the cost  
16 allocation model.

17 MR. LADANYI: We would have to get into the numbers  
18 and look at them?

19 MS. DOLZHENKOVA: That's correct.

20 MR. LADANYI: And we might do this in the hearing, but  
21 not here and now, not in the technical conference, which is  
22 fine.

23

24 So please turn to Exhibit 8, tab 1, schedule 1,  
25 original, tables 5.1 and -- sorry, 5-1 and 5-2, which is  
26 "Bill impacts", pages 14 and 15. So let's look first at  
27 table 5-1, which is on page 14. Yes. Thank you.

28

1           So I understand from your evidence and discussions  
2 that we've had earlier in this technical conference, one of  
3 your objectives of your rate application was to keep the  
4 rate increase for residential customers at 7 percent. And  
5 I see that in the last column; is that right? That's an  
6 average rate increase. Is that the 7 percent you were  
7 mentioning?

8           MS. DOLZHENKOVA: That's correct.

9           MR. LADANYI: So if you turn to the next page, which  
10 is page 15, I see that the average increases for commercial  
11 and industrial customer classes are not 7 percent. Did you  
12 have an objective for rate increases for commercial-  
13 industrial customers?

14          MS. COBAN: Our objective for all customer classes was  
15 to find the minimum investments necessary to achieve the  
16 outcomes that we know are important to these customers, and  
17 be able to deliver those outcomes at an affordable price.

18          We did not express that objective in terms of a price  
19 limit for all the other classes. We expressed it in terms  
20 of the residential class, as it has the most number of  
21 customers, and the largest portion of our revenue coming  
22 from that class.

23          But the underlying objective that underpins the 7  
24 percent very much applies to the other rate classes in  
25 terms of finding that balance I spoke about.

26          MR. LADANYI: As I understand it, as a result of your  
27 cost allocation, you had to allocate more costs to the  
28 commercial-industrial customers, for whatever reason. And

1 the numbers came out as they did; is that right?

2 MS. DOLZHENKOVA: That's correct.

3 MR. LADANYI: Thank you. Now, please turn to 1B-  
4 CCMBC-3. Now, in questions B, C and D, I asked a few  
5 questions about the Toronto-specific labour index, and I  
6 will not repeat those questions. And you pointed me to  
7 your response to 1B-Staff-93. And now the second-to-last  
8 sentence on page 3 -- would you go to page 3, please? You  
9 decided to withdraw the custom labour inflation proposal.  
10 Is that right?

11 MS. COBAN: That's correct.

12 MR. LADANYI: Why did you do that?

13 MS. COBAN: When we looked more closely at the data  
14 that underpinned this proposal, and understood that data in  
15 terms of what it is showing us year over year in terms of  
16 those trends as we saw here in the updated table, we felt  
17 that that data didn't represent what we had initially  
18 assumed in crafting that custom proposal. So it was  
19 essentially an error that we corrected upon taking a closer  
20 look at this data. You have the corrected table here.

21

22 And reflecting on what the corrected table is showing  
23 us, we decided to withdraw that proposal.

24 MR. LADANYI: So you expected, if I understand  
25 correctly, that the Toronto-specific labour index would  
26 have higher percentage increases than what you actually  
27 found, and then you abandoned it?

28 MS. COBAN: No. The correction was with respect to

1 our data in terms of what we are seeing in the appendix 2K,  
2 not --

3 MR. LADANYI: This is, like, "our data"? I mean,  
4 Toronto Hydro's own compensation.

5 MS. COBAN: Correct.

6 MR. LADANYI: All right, thank you. Now please turn  
7 to 4-CCMBC-18. This interrogatory asked in part A: Please  
8 confirm that, in general, compensation and benefits of  
9 experienced employees who are retiring are higher than new  
10 inexperienced employees.

11 And I understand that, as I read your answer, that you  
12 more or less agreed with me, but you qualified it. Am I  
13 correct in that?

14 MR. CLARK: Yes, that's correct, Mr. Ladanyi.

15 MR. LADANYI: And, in part B, I asked: What is the  
16 saving in OM&A cost from the replacement of experienced  
17 retiring employees with new employees over the 2023 to 2029  
18 period?

19 And you can turn to the next page for your response.  
20 And I have looked at your response and thank you for it. I  
21 just have a simple kind of like a summary question, if you  
22 like: Does the replacement of older employees with younger  
23 employees reduce or increase costs, or does it have no  
24 effect?

25 MR. CLARK: I think, if we start on line 4, we state  
26 that, unfortunately, it is not possible to quantify the  
27 requested information.

28 MR. LADANYI: So we don't really know. We don't know

1 whether it's increasing or decreasing cost or whether it  
2 has no effect. That's your answer. You don't know; you  
3 can't figure it out?

4 MR. CLARK: I think there are many direct and indirect  
5 investment costs. So, for example, if you replace a  
6 retiring employee with a new employee, there would be  
7 differences in productivity level. Added to that, also,  
8 you have the training costs, on-boarding costs, upskilling,  
9 which are not possible to attribute to this one individual  
10 happenstance of a new employee replacing a retired  
11 employee.

12 MR. LADANYI: So I understand what you're saying.  
13 This is too complicated to figure out; there are many  
14 moving parts, and you're not sure?

15 MR. CLARK: That's correct.

16 MR. LADANYI: Now, please turn to 4-CCMBC-20. I think  
17 we just saw that earlier, with Mr. Rubenstein, and there's  
18 an undertaking for that, which is JT3.41.

19 I have a question that probably will not be answered  
20 in JT3.41. Can you ask Mercer whether the compensation and  
21 benefits for employees, which is nonexecutive compensation  
22 and benefits for employees, are higher in Alberta than in  
23 Ontario or lower in Alberta than in Ontario? Can you ask  
24 them that? This is on the average.

25 MR. STERNBERG: We'll relay that request to Mercer.

26 MR. MURRAY: That will be undertaking JT3.46.

27 **UNDERTAKING JT3.46: TO ASK MERCER WHETHER THE**  
28 **COMPENSATION AND BENEFITS FOR EMPLOYEES, WHICH IS NON-**



1           **EXECUTIVE COMPENSATION AND BENEFITS FOR EMPLOYEES, ARE**  
2           **HIGHER IN ALBERTA THAN IN ONTARIO OR LOWER IN ALBERTA**  
3           **THAN IN ONTARIO.**

4           MR. LADANYI: And these are actually all my questions  
5 on behalf of the Coalition of Concerned Manufacturers and  
6 Businesses of Canada. Now, as you know, I'm also  
7 representing Energy Probe, and I have a bunch of questions  
8 for Energy Probe. Should I continue, Mr. Murray, or should  
9 I stop now?

10          MR. MURRAY: I think now is a good time to stop, and  
11 we'll start again tomorrow at 9:30.

12          MR. LADANYI: Thank you, panel.

13          --- Whereupon the conference adjourned at 5:01 p.m.

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