Re:

CENTRA GAS MANITOBA INC.

TRANSPORTATION AND PORTFOLIO APPLICATION

Before Board Panel:

Regis Gosselin	- Board Chairman
Monica Girouard	- Board Member
Raymond Lafond	- Board Member

HELD AT:

Public Utilities Board 400, 330 Portage Avenue Winnipeg, Manitoba June 26, 2012 Pages 241 to 480

242 APPEARANCES 1 2 Bob Peters)Board Counsel 3 4 Doug Bedford)Manitoba Hydro 5 6 Brian Meronek, Q.C.)CAC 7 Tomas Masi) 8 9 Nola Ruzycki (np))Just Energy Manitoba 10 11 Paul Kerr (np))Shell Energy 12 13 Kim Johnston (np))BP Energy Group 14 15 16 17 18 19 20 21 22 23 24 25

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--- Upon commencing at 9:32 a.m. 1 2 3 THE CHAIRPERSON: Good morning, 4 everyone. Back to you, Mr. Peters. 5 MR. BOB PETERS: Thank you, Mr. 6 Chairman, Board members, witness panel, good morning. Mr. Chairman, there's a few matters from yesterday that 7 I should just backtrack on and make sure that the 8 9 record is -- is up to speed on. 10 First of all, Mr. Warden's absence this morning is not unexpected. He -- he's indicated that 11 12 he has conflicting commitments. And he's going to, I 13 understand, be back here as quickly as he can. 14 The second matter is that in review of 15 the exhibits and while perhaps a couple of them were 16 marked as PUB exhibits that are traditionally marked as the Utility's exhibits, I -- I hope my friend opposite 17 18 can live with that. And there is one (1) omission from 19 the exhibit list that is noted, and that is the pre-20 hearing conference transcript. 21 I would suggest that we mark the pre-22 hearing conference transcript as PUB Exhibit 8. And we can make a note on our exhibit list to that effect if 23 24 that's satisfactory. 25

249 --- EXHIBIT NO. PUB-8: Pre-hearing conference 1 2 transcript 3 CENTRA GAS PANEL: 4 5 GREG BARNLUND, Resumed 6 NEIL KOSTICK, Resumed 7 LORI STEWART, Resumed 8 BRENT SANDERSON, Resumed 9 CONTINUED CROSS-EXAMINATION BY MR. BOB PETERS: 10 11 MR. BOB PETERS: And then moving to the witness panel, from my questions yesterday, Mr. 12 13 Kostick, you've had an opportunity to reflect on my 14 questions and your answers? 15 MR. NEIL KOSTICK: Yes. And --16 MR. BOB PETERS: There's --17 MR. NEIL KOSTICK: -- thank you for --18 MR. BOB PETERS: There's a matter that 19 you want to provide additional information to the Board 20 on? 21 MR. NEIL KOSTICK: Yes, that is 22 correct. 23 MR. BOB PETERS: Thank you. 24 MR. NEIL KOSTICK: First of all, good 25 morning, Mr. Chairman, members of the Board, ladies and

1 gentlemen. There was one (1) question posed yesterday 2 that -- it had to do with the ROFR rights, or right of 3 first refusal. And it was suggested yesterday that 4 there was the potential that Centra could have possibly 5 gotten lower rates than it negotiated, had it gone 6 through the ROFR process.

7 And in double-checking the ROFR 8 provisions of -- of ANR and Great Lakes, ANR and Great 9 Lakes are not obligated to accept any bids below the 10 maximum rate through the ROFR process. It's entirely 11 at their discretion.

12 So if the ROFR pro -- process were 13 invoked and potentially low rates were bid by another party for Centra's capacity, ANR and Great Lakes don't 14 15 have to accept it. And, in fact, they would most 16 likely reject such an offer, in particular, for the case of storage, where ANR has sold storage at the 17 18 maximum tariff rate both before and after Centra has 19 signed its term sheet for significantly discounted 20 storage.

There's no reason why ANR would accept a ROFR bid at a discounted rate when it tends to sell storage at its maximum rate. However, if an offer through the ROFR process is made for Centra's capacity at the maximum tariff rate, Centra would have no choice

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1 but to the match the maximum tariff rate or it would 2 lose its capacity.

3 So what this means is that the ROFR 4 process has asymmetrical risk for Centra. So it's very 5 unlikely to get the discounts through the ROFR process 6 that it got through negotiation, as ANR can simply 7 reject such offers through the ROFR process. And Centra ve -- would be exposed to having paid the 8 9 maximum tariff rate or lose the capacity. And also 10 through the ROFR process, Centra would not likely be able to negotiate non-standard features, such as 11 12 discounted secondary receipt and delivery points. And, 13 in fact, ROFR itself has to be negotiated if it's for a rate that's at a discount to the tariff rate. 14

15 So this essentially supports the 16 position stated by us -- by Centra yesterday that ROFR 17 is primarily a tool to ensure that Centra can maintain 18 its capacity at contract expiry rather than to be used 19 as a tool to extract a better price than what was 20 negotiated. We feel with a lot of certainty that we 21 got the best deal possible through the negotiation of the -- of the suite of services that we've put forward 22 23 in this application and that it's a better value than 24 we could have gotten through the ROFR process. 25 MR. BOB PETERS: Thank you, Mr.

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Kostick, but while we're still on that topic, if ANR 1 has excess storage capacity other than what it has for 2 -- being held for Centra, does it accept bids on that 3 storage or does it accept bids on Centra's storage 4 5 suite? 6 MR. NEIL KOSTICK: If ANR is not sold 7 out then there's no need to go through ROFR process to sell capacity to other parties. And ANR in every case 8 9 will make the determination of whether it wants to sell 10 the capacity at its -- at its maximum rate or at a lower rate. And I emphasize again, that ANR and Great 11 12 Lakes have no obligation whatsoever to sell capacity below its maximum tariff rates. 13 14 MR. BOB PETERS: And ANR and Great 15 Lakes have no obligation to sell its storage under a 16 ROFR agreement to Centra in seven (7) years at anything less than its maximum rate at that time? 17 18 MR. NEIL KOSTICK: If the ROFR process 19 is invoked seven (7) years from now, Centra would 20 always be assured of being able to maintain the 21 capacity at no greater than the maximum tariff rate. 22 However, if it could -- if Centra can negotiate a 23 better package of services, as it has in this case, 24 then Centra would obviously pursue that avenue. 25 MR. BOB PETERS: Does Centra have to

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1 make a choice between exercising its right of first 2 refusal option versus a renegotiation of a brand new 3 suite of services?

4 MR. NEIL KOSTICK: What happens, and 5 what happened in this case, is we negotiated what is, 6 of course in our view, an attractive suite of services with ANR and Great Lakes. We submitted service 7 requests to essentially get that capacity reserved for 8 9 us so that it is not subject to the ROFR process, which doesn't expose us to having to keep that capacity at 10 maximum rate should another party bid the maximum rate 11 12 for that capacity. As could very well be the case for 13 ANR storage, as ANR storage is typically sold out. And 14 our understanding is ANR storage is still sold out 15 today. 16 MR. BOB PETERS: So to summarize it, the right of first refusal is just a method being used 17 18 to assure Centra of the capacity but the price of that 19 capacity is not assured? 20 MR. NEIL KOSTICK: Correct. But the --21 there is -- the one assurance on the price of the 22 capacity is that it would not be higher than ANR's or 23 Great Lakes' tariff maximum rate. 24 MR. BOB PETERS: But that's not -- Mr. 25 Kostick, that's not something that ANR could even do

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because they are restricted by the FERC maximum, are 1 2 they not? 3 MR. NEIL KOSTICK: That is correct and that's why we could not get the capacity to the ROFR 4 process higher than the maximum tariff rate. 5 6 MR. BOB PETERS: Yeah. 7 MR. NEIL KOSTICK: Yes. 8 MR. BOB PETERS: So it's not by the 9 largesse of Great Lakes or ANR, it's because FERC has -10 - has put the hammer down and said this is your maximum rate and you can't charge Centra or anybody else any 11 12 more than the maximum rate that we've fixed? 13 MR. NEIL KOSTICK: That's correct. And that's a distinction between ANR and several other 14 15 storage operators in that region, which are generally 16 not -- generally do not have FERC-regulated maximum 17 tariff rates. They can charge market-base rates, which means they could charge conceivably two (2) or three 18 19 (3) times what ANR could charge under its maximum rate 20 if the -- if the market value of storage has escalated 21 to that degree. And in past years the value of storage 22 has been significantly higher than what it is today. 23 MR. BOB PETERS: Can you explain to the 24 Board, Mr. Kostick, what ANR does that makes it a 25 requirement that they have FERC-regulated rates whereas

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1 some of their competitors may not have that same
2 responsibility?

3 MR. NEIL KOSTICK: I don't know the exact details of the history of all the storage 4 5 operators. It may be a function of when ANR put its 6 services into place and that could have been conceivably before market-based rates were allowed in 7 the US. And the other storage operators could be more 8 9 recently implemented facilities where FERC had allowed 10 there to be market-based storage rates. I'm not entirely certain but that's just a bit of a speculation 11 12 on my part as far as why there is that difference. But 13 there is definitely a mix in the US of both storage 14 operators that are subject to FERC-regulated tariff 15 rates and storage operators that offer market-based 16 rates.

And in fact I believe, if I'm not mistaken, that ANR could, if they were expanding their facilities, they could likely make application to FERC to have those new facilities be offered under marketbased rates as opposed to FERC regulated -- FERCregulated tariff rates. But I believe FERC has to accept that

24 that's acceptable under whatever criteria they would 25 use to determine whether market-based rates would be

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appropriate or -- or allowable. 1 2 And having said all that, I'm not a -- a expert by any means on FERC matters. And this would 3 just be my -- my general understanding. 4 5 MR. BOB PETERS: Thank you, Mr. 6 Kostick. And be careful answering this question so as not to put anything confidential on the record that you 7 -- that Centra ought not to, but can you tell the Board 8 whether proponents B, 'C', and 'D' are subject to FERC 9 maximum rates? 10 11 Or are they able to set their rates 12 based only on the market? 13 14 (BRIEF PAUSE) 15 MR. NEIL KOSTICK: I think it's fair to 16 17 say that the majority of other storage operators in 18 that region offer rates at market-based rates. And we 19 can say that parties B, 'C', and 'D' all offer storage 20 rates based on market rates that are not subject to any 21 regulated maximum rate. 22 MR. BOB PETERS: And -- but what the 23 Board does know is that even if storage operator B is 24 not subject to FERC-regulated tar -- tariff storage 25 rates, its prices were within 1 percent of ANR's rates.

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257 MR. NEIL KOSTICK: I think on a total-1 portfolio basis, the comparison of costs between the 2 ANR/Great Lakes portfolio and the option B portfolio 3 were within 1 percent. That doesn't necessarily speak 4 5 to the difference in storage rates. 6 But ultimately, I -- I think it's fair to say that the storage rates were quite close between 7 ANR and the option B storage proponent. 8 9 MR. BOB PETERS: Thank you, Mr. 10 Kostick. Perhaps still staying with you, sir -- and, Board members, turning to Tab 18 of the book of 11 12 documents; that is PUB Exhibit 7 -- there is a chart 13 that we talked about yesterday. And there's a couple 14 of points I'd like to -- to just deal with. 15 I hope you didn't lose your book of documents, Mr. Kostick. 16 17 MR. NEIL KOSTICK: I'm there. 18 MR. BOB PETERS: They're selling at a 19 premium. Mr. Kostick, you have ta -- book of 20 documents, Tab 19, page 61, the chart? Tab 18, I'm 21 sorry. Tab 18. 22 MR. NEIL KOSTICK: Yes, Tab 18, chart. 23 Yes. 24 MR. BOB PETERS: I'm sorry, I misspoke. 25 Tab 18 is a numerical representation of Centra's

conclusions with the SENDOUT model, correct? 1 2 MR. NEIL KOSTICK: Yes, that's correct. 3 MR. BOB PETERS: And when the Board 4 looks down under average annual costs in Canadian 5 dollars, down to total, is that "Total" line the line 6 that SENDOUT seeks to optimize? 7 MR. NEIL KOSTICK: That's correct. Tt. seeks to minimize the total portfolio costs. 8 9 MR. BOB PETERS: So it doesn't seek to minimize or maximize storage capacity or storage 10 deliverability; it seeks to minimize the "Total Overall 11 12 Cost" line? 13 MR. NEIL KOSTICK: That's correct. 14 MR. BOB PETERS: And you've told the 15 Board yesterday that you ran -- and here you see case 1 16 for ANR -- year 1 and year 5. 17 Those are the price curves that you ran, 18 that Centra ran? 19 MR. NEIL KOSTICK: Yes. 20 MR. BOB PETERS: And you ran them for 21 twenty (20) different weather scenarios? 22 MR. NEIL KOSTICK: That's correct. 23 MR. BOB PETERS: Does that mean the 24 computer spit out twenty (20) pieces of paper for each 25 of the individual weather scenarios, based on the price

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1 curve? 2 MR. NEIL KOSTICK: It produced a -- a portfolio that was sized for the twenty (20) years of 3 weather. So the 15.6 petajoules in case 1, year 1, it 4 5 gave 15.6 petajoules as the optimal capacity for twenty 6 (20) years of weather. 7 So if you had the capacity for twenty (20) years, and those are the twenty (20) weather 8 9 patterns you are going to face, it would say take 15.6 petajoules, because combined with everything else in 10 the portfolio, that would minimize the total portfolio 11 12 costs. 13 MR. BOB PETERS: Okay. Maybe my 14 question wasn't asked that well, but are you looking 15 for twenty (20) different output answers for each? 16 That is, one (1) output for each weather scenario and 17 then Centra takes an average? 18 MR. NEIL KOSTICK: No, not at all. 19 There's one (1) summary of the -- of the twenty (20) years, if you will, where SENDOUT produces a best fit 20 21 portfolio for twenty (20) years of weather, not twenty 22 (20) different portfolios, but one (1) single portfolio 23 that is the lowest cost portfolio, taking in account 24 twenty (20) different years of weather. So it takes 25 into account both warm winters and very cold winters,

260 and it says over all the types of weather that are in 1 the model, in this case the most recent twenty (20) 2 years, it selects a single best-fit portfolio. 3 4 MR. BOB PETERS: Thank you for that 5 clarification. And the Board can see by crunching those numbers that a large driver of the difference 6 between case 1 for ANR year 1 and year five 5 relates 7 to the supply cost of the molecules, correct? 8 9 MR. NEIL KOSTICK: That is correct. 10 MR. BOB PETERS: And that's because the year five 5 futures price curve that was fed into the 11 12 model as a -- as a constraint, or as a parameter, it 13 contained higher costs of the molecules of natural gas? MR. NEIL KOSTICK: 14 Yes. Futures 15 curves, as well as most forecasts, or at least the ICF 16 forecast of prices shows a general trend of rising 17 prices over time. 18 MR. BOB PETERS: Right. 19 MR. NEIL KOSTICK: So the use of the 20 year five 5 -- commodity prices for natural gas are 21 higher than in year 1 of the curves. 22 MR. BOB PETERS: And the Board will see 23 that if it looks to the right-hand side of that chart, 24 under the ICF curve scenarios that you talked about? 25 That's right. MR. NEIL KOSTICK:

261 You'll see higher costs for year 5 than you will for 1 year 1 under the ICF curves. 2 3 MR. BOB PETERS: Now is -- am I correct 4 -- or would the Board be correct in understanding, Mr. Kostick, that when Centra ran it's year 1 and its year 5 6 5 price curves and tried to get an optimized portfolio, 7 it wasn't Centra's intention to average those two (2) numbers? 8 9 MR. NEIL KOSTICK: That's correct. 10 MR. BOB PETERS: But Centra essentially did average them, or at least uses the average to 11 12 support the number that Centra chooses? 13 MR. NEIL KOSTICK: We looked at all of 14 the model results you see on this page to inform our 15 decision on storage capacity, if we just look at 16 storage capacity in particular. What we see is that indeed using the futures curves, the average does turn 17 18 out to be 15 1/2 petajoules. In looking at the ICF 19 curves you see a very similar result for ANR in year 1, 20 where it was 15.2 petajoules -- and we've talked about 21 how model results are -- should be taken directionally. 22 So we see the 15.2 petajoule result as being quite 23 similar to the 15.6 and 15.4 petajoule results. 24 And then we also see in year 5 of the 25 ICF curves a storage capacity of 19.9 petajoules, which

of course is significantly higher than the other 1 results. And, ultimately, in evaluating the type of 2 portfolio that the SENDOUT model put together, and the 3 storage capacities that it selected, it informed our 4 5 decision that there was no compelling reason to reduce 6 storage capacity from what we have today, particularly 7 in light of other factors such as what can be, I think, fairly described as an uncertain and perhaps further 8 9 just deterior -- deteriorating situation with respect to the TransCanada mainline. 10

11 MR. BOB PETERS: Well, yesterday I 12 thought I heard Mr. Warden, and I guess I'll speak 13 about him because he's not here, but I thought he said 14 that Centra puts all of its faith in the forecasts from 15 independent consultants that it pays for rather than 16 coming up with its own future price estimates? And 17 have I -- have I said that essentially correct? 18 MR. NEIL KOSTICK: I -- I wouldn't say 19 -- I -- I couldn't say if it was 100 percent correct 20 without referring to the record, but what I will say is 21 we have not made any price curves of our own. We are 22 using futures curves and we are using the curves that 23 ICF produced. So we haven't made any judgment 24 whatsoever with respect to the different price curves. 25 They are what they are and they're in the model. And

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1 the different price curves product different optimal 2 portfolios.

3 There are four (4) different results here for ANR: two (2) under future's curves and two (2) 4 5 under the ICF curves. So we haven't chosen any of 6 those, literally, because there is no result of 15.5 petajoules in any of those results. So obviously some 7 judgment is required. We can't choose four (4) 8 9 different portfolios with four (4) different storage 10 capacities. We have to choose one (1). And based on all the information that we have, and the model 11 12 results, we determined that there was no compelling 13 reason to reduce the storage capacity from what we currently hold today, of 15 1/2 petajoules. 14 15 MR. BOB PETERS: Mr. Kostick, if I look 16 at the ICF curves for case 3 for ANR, under year 1 17 scenario it's 15.2 petajoules and under year 5 it's 18 19.9 petajoules, correct? 19 MR. NEIL KOSTICK: Yes, that's correct. 20 MR. BOB PETERS: And if we take a 21 simple average we're about 17 petajoules? 22 MR. NEIL KOSTICK: Roughly, yes. 23 MR. BOB PETERS: And so why didn't Centra suggest that 17 petajoules is the optimal based 24 25 on the independent price information from ICF?

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1 MR. NEIL KOSTICK: Seventeen petajoules is an average between 15.2 and 19.9. It's probably 2 closer to about 17 1/2 would -- would really be I think 3 closer to the average. The 19.9 result is -- I quess 4 5 you could view it as somewhat of an outlier compared to 6 15.6, 15.4, and 15.2. 7 I think it would be unusual to place a lot of weight on one (1) result that is different than 8 9 the rest. And the third or -- and the result in -- in year 5 under ANR I believe -- I believe as we've 10 discussed in the IR responses, assumes a somewhat 11 12 greater summer-winter price differential which largely 13 accounts for -- I would imagine largely accounts for the difference in the model results between those that 14 15 were in roughly the 15 petajoule range versus that higher 19.9 petajoule range. 16 17 So in an effort to be conservative and 18 to be consistent with what Mr. Sanderson talked about

to be consistent with what Mr. Sanderson talked about yesterday, with not assuming any or -- or like -- or should -- I should say Mr. Sanderson indicated that the -- the futures curves used in this modelling exercise are basically reflective of historical futures or historical summer-winter differentials in terms of being roughly 10 percent higher prices in winter rather than summer.

So those are more reflective of the 1 results in -- in the 15 petajoule portfolio results as 2 opposed to the 19.9. So we didn't want to place too 3 much weight on an assumption of greater summer-winter 4 price differentials in selecting an opt -- in selecting 5 6 a storage capacity for our portfolio. MR. BOB PETERS: If -- if Centra's 7 choice or parameter was a 10 percent winter-summer 8 9 price differential that we discussed yesterday, what 10 did you understand to be the percentage by ICF in that 11 same calculation? 12 MR. NEIL KOSTICK: I -- I don't have a specific calculation. 13 14 MR. BOB PETERS: Theirs was just 15 higher? 16 MR. NEIL KOSTICK: Yes, the summerwinter differential I believe in year 5 of their curve 17 18 was generally higher than the other price curve 19 scenarios. 20 MR. BOB PETERS: Would you agree with 21 me, Mr. Kostick, and would Centra agree with me, that 22 what you've told the Board in the sense of not choosing 23 the 19.9 petajoules as the optimum storage size is but another example of Centra exercising its judgment based 24 on perhaps subjective considerations? 25

1 MR. NEIL KOSTICK: I would say it's based on our overall knowledge of the gas industry, and 2 various factors that play in the market, as well as 3 considering the model results. So all of those factors 4 5 are combined. So I don't know if I'd characterize it 6 as being subjective in terms of, you know, whether you prefer chocolate ice cream versus vanilla ice cream is 7 kind of subjective. 8 9 This is based on, I would say, informed 10 individuals making a choice who work in the industry and -- and who evaluated model results along with all 11 12 the other knowledge that we have as a participant in 13 the natural gas industry. 14 MR. BOB PETERS: I -- I take your 15 point. I wasn't suggesting arbitrary. But there's 16 some judgment included in -- in the decision to -- to stay with 15.5 petajoules. 17 18 MR. NEIL KOSTICK: Yes. And I think 19 Mr. Warden advised yesterday that judgment is always a part of dec -- of the decision-making process. 20 21 MR. BOB PETERS: Now, in addition to 22 the ICF price curves that the Board has seen in -- the 23 Board saw what the curves looked like at Tab 16 of the 24 book of documents for ICF. And that was just a series 25 of stepped lines. In addition to that, Centra had

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three (3) additional or alternative sets of price 1 curves coincidentally also from ICF. Isn't that 2 correct? 3 4 MR. NEIL KOSTICK: Perhaps you could 5 clarify. 6 MR. BOB PETERS: Included in --7 included in the two hundred and sixty thousand dollar 8 (\$260,000) report from ICF were a set of three (3) 9 alternative price curves? 10 MR. NEIL KOSTICK: If you're referring to the market scenario analysis that was performed by 11 12 ICF, then, yes, there were three (3) other scenarios. 13 Is that what you're referring to, Mr. Peters? 14 MR. BOB PETERS: Yes, it is, and I -- I 15 call them price curves; you don't call them price 16 curves? 17 MR. NEIL KOSTICK: I believe price 18 curves are -- are derived from those scenarios, so it's 19 maybe just a matter of semantics. 20 MR. BOB PETERS: Okay. Then one (1) of 21 those -- one (1) of those price curves or market scenarios dealt with a situation called "tight gas." 22 23 Do you recall that? 24 MR. NEIL KOSTICK: I think it was a 25 tight-market scenario, probably reflective of higher

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natural-gas demand in general and lower supply than 1 what is in the market today. 2 3 MR. BOB PETERS: Right. And we don't 4 have to go back to -- it's at Tab 4 of the filing by 5 Centra in your -- in your original application. But 6 under that tight gas scenario, as I've called it, there was slower growth of shale gas and there was faster 7 economic recovery. 8 9 Do you recall that? 10 MR. NEIL KOSTICK: That sounds correct, 11 yes. 12 MR. BOB PETERS: A second price 13 scenario, or I call it a price curve, that ICF 14 developed in their report was one that was considered a 15 pessimistic TCPL outcome? 16 MR. NEIL KOSTICK: Yes, that's correct. 17 MR. BOB PETERS: And -- and what I'm 18 referring to is ICF took a -- developed a situation 19 where they took a pessimistic view of the TCPL outcome, 20 meaning that there would be more shale along the East 21 Coast, more shale gas; the Western Canada sedimentary 22 basin supply would be reduced; and natural gas would 23 end up being exported for LNG. 24 Do you recall that? 25 MR. NEIL KOSTICK: Yes, I do.

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MR. BOB PETERS: And that -- that 1 exporting of the natural gas for LNG purposes would 2 have gone out of one (1) of the plants in British 3 Columbia? 4 5 MR. NEIL KOSTICK: Yes, one (1) of the 6 proposed LNG export facilities. 7 MR. BOB PETERS: Okay. And then the third price curve that ICF also included in -- as an 8 9 alternative in their report is what I'll call the optimistic TCPL scenario. 10 11 Do you recall that? 12 MR. NEIL KOSTICK: Yes, I do. 13 MR. BOB PETERS: And it's essentially 14 the inverse of the pessimistic view where, in the 15 optimistic view they're taking -- there'll be less 16 shale gas, there'll be more needed from Western Canada, 17 and natural gas will not be exported from BC for LNG 18 purposes? 19 MR. NEIL KOSTICK: Yes, that's my recollection. 20 21 MR. BOB PETERS: Now, even though ICF 22 gave that information to Centra, Centra did not use it 23 in terms of parameters in running SENDOUT. Would that 24 be correct? 25 MR. NEIL KOSTICK: That's correct.

1 MR. BOB PETERS: But during the Information Request process, Centra was asked to run 2 those alternative price views through the SENDOUT 3 model, and Centra obliged and did that, correct? 4 5 MR. NEIL KOSTICK: Yes, that's correct. 6 MR. BOB PETERS: At least Centra did it for two (2) of the three (3). Centra ran the 7 optimistic TCPL versus the pessimistic TCPL, correct? 8 9 MR. NEIL KOSTICK: Yes. 10 MR. BOB PETERS: And the results of that, Mr. Chairman and Board members, are at Tab 19 of 11 12 the book of documents. And Tab 19 contains a 13 reproduction of PUB/CENTRA Information Request 10 14 together with the answer. And there are some charts. 15 I want to turn to the chart at PUB/CENTRA-10-C; it is 16 found on page 73, Mr. Kostick. 17 If you could just let me know when 18 you've located that. 19 MR. NEIL KOSTICK: I've located it. 20 MR. BOB PETERS: And as we look at the 21 chart on page 73 of the book of documents, found under Tab 19, this contains Centra's modelled results through 22 23 SENDOUT using the alternate ICF market scenarios that 24 were provided? 25 MR. NEIL KOSTICK: Yes, that's correct.

1 MR. BOB PETERS: And when the Board sees at the top -- the top half of the page deals with 2 the proponent A, which Centra has identified as ANR, 3 and the bottom is proponent or option B, the company 4 5 which remains unidentified? 6 MR. NEIL KOSTICK: Yes. 7 MR. BOB PETERS: And when Centra ran the information from ICF on an optimistic TCPL 8 9 scenario, this optimistic scenario would have the tolls to Eastern Canada closer to the one dollar (\$1) range 10 than -- than higher than that, correct? 11 12 MR. NEIL KOSTICK: Yes, it would have 13 tolls in the one dollar (\$1) range, which is about a 55 14 percent reduction from the current tolls. 15 MR. BOB PETERS: And, Mr. Kostick, you're telling the Board, back on Tab 12 of Board 16 counsel's book of documents, Ms. Stewart explained the 17 18 TCPL tolls. 19 And the optimistic view taken by ICF in developing a pricing scenario was to suggest that the 20 tolls would come back more in line with what TCPL 21 22 thought they might be back in 2007? 23 MR. NEIL KOSTICK: Well, that would be 24 TCPL's view in 2007, up to 2011, whereas this model 25 exercise that we undertook was looking at 2013 and

beyond. So they're not quite comparable. 1 2 MR. BOB PETERS: Right. And Ms. Stewart still has an undertaking, I think, to us once 3 we hear further from the TCPL as to what their refiled 4 5 numbers look like under their restructuring. 6 But in any event, ICF uses a one dollar (\$1) toll as an optimistic view, and then on the other 7 part of the chart, it uses a three dollar (\$3) toll as 8 9 a pessimistic view? 10 MR. NEIL KOSTICK: That's correct. 11 MR. BOB PETERS: And sitting where I 12 am, Mr. Kostick, and listening to Ms. Stewart 13 yesterday, I'm getting the sense that the three dollar 14 (\$3) pessimistic view is looking more and more like the 15 reality than the one dollar (\$1) optimistic view. 16 MR. NEIL KOSTICK: I would tend to 17 agree. 18 MR. BOB PETERS: So if we take the 19 information from ICF and we look at the -- let's just 20 go down to the "Storage" line, line 12, and look at the 21 capacities. 22 Under this optimistic price scenario, 23 capacities would be 11 petajoules and 10.8 petajoules 24 on year 5, compared to year 1? 25 MR. NEIL KOSTICK: That's correct.

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1 MR. BOB PETERS: And then under the pessimistic view, they would jump up to fourteen point 2 six (14.6) and seventeen point six (17.6)? 3 4 MR. NEIL KOSTICK: Yes, that is 5 correct. 6 MR. BOB PETERS: Now, again, if we take a look at the pessimistic side, the average there could 7 be just over 16 petajoules. You'd agree with me on 8 9 that? 10 MR. NEIL KOSTICK: Yes. 11 MR. BOB PETERS: And Centra never ran 12 this, or had this information when it made its, in my 13 words, subjective judgment decision, as to fifteen point five (15.5) being the correct number? 14 15 MR. NEIL KOSTICK: This model exercise 16 that we're talking about here, PUB-10-C, was run after we had made our portfolio decision. 17 18 MR. BOB PETERS: Does this information, 19 in Centra's view, support Centra's position or not support Centra's position, after the fact? 20 21 MR. NEIL KOSTICK: After the fact, I 22 think it definitely supports the position that we've 23 taken, given that the Tran -- the TransCanada situation is closer to the pessimistic view as opposed to the 24 25 optimistic view.

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I think another modelling caveat here 1 that needs to be clearly understood is that these 2 alternative model runs that we did in response to all 3 of the IRs, we assumed that the rates that we 4 5 negotiated with ANR and Great Lakes for the specific 6 package that we brought before this Board is embedded in this model. 7 8 So that would -- those were rates that 9 were negotiated for a specific package of services. These model results are assuming that those rates would 10 still apply, which certainly cannot be assumed. But 11 12 there's no better way that we can do it, other than to 13 assume that we used the rates that we negotiated. And I think we -- we indicated in our IR 14 15 response to PUB-10 that these additional model runs are for discussion purposes, recognizing that the rates 16 17 that we've assumed for ANR and Great Lakes services 18 would not necessarily apply to this scenario. 19 But in response to your question, 20 generally it does tend to support what we've chosen, 21 given that the TransCanada situation is much closer to 22 the pessimistic scenario than it is to the optimistic 23 scenario. 24 MR. BOB PETERS: Mr. Kostick, when you 25 -- when -- when Centra ran SENDOUT to come up with its

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275 optimal portfolio that's before the Board today, Centra 1 initially didn't know what the final tolls would be for 2 all of the specific services, did it? 3 4 MR. NEIL KOSTICK: No, we didn't. 5 MR. BOB PETERS: It was a subject of 6 negotiation or ongoing negotiations? 7 MR. NEIL KOSTICK: Sorry, I thought you were referring to TransCanada tolls, because we don't 8 9 know what those are going to be in the future. But you 10 are referring to ANR and Great Lakes rates? 11 MR. BOB PETERS: I was. 12 MR. NEIL KOSTICK: Well, then I -- I 13 have to perhaps make sure I understood the question. 14 The question -- perhaps you could just rephrase it? 15 MR. BOB PETERS: Certainly. 16 MR. NEIL KOSTICK: I just want to make sure I'm on the right the page with you. 17 18 MR. BOB PETERS: Is one (1) of Centra's 19 criticisms of the chart at PUB/CENTRA-10-C the fact 20 that Centra used rates that were already negotiated for 21 a different package in developing the answer for PUB/CENTRA-10-C? 22 23 MR. NEIL KOSTICK: Yes, it's a caveat 24 that we identified with respect to PUB-10-C. 25 When Centra negotiated MR. BOB PETERS:

276 the rates for the optimum portfoli -- optimal portfolio 1 that's before the Board, Centra didn't know what the 2 final rates were when it started running it's SENDOUT 3 model, did it? 4 5 MR. NEIL KOSTICK: Actually, we did. 6 And I think we discussed in some detail the iterative process that we used for modelling and negotiation, 7 that we would negotiate, get some rates to work with 8 9 with ANR and Great Lakes, and go and run the modelling on the basis of those rates. Then we would go back to 10 ANR and Great Lakes and say -- you know, we'd continue 11 12 the nego -- negotiation, essentially, and be back and 13 forth. So we'd get new rates from ANR and Great Lakes, 14 further modelling, new rates, further modelling. 15 So what we have in the final model 16 results that we showed in Tab 7 that we were referring 17 to earlier, those used the precise rates that we 18 ultimately agreed to. 19 MR. BOB PETERS: All right. 20 MR. NEIL KOSTICK: So we -- we did know 21 what the ANR and Great Lakes were in our final model 22 results that we provided in the application in Tab 7. 23 MR. BOB PETERS: Okay. Thank you for 24 the clarification of the answer. When -- your final 25 portfolio before this Board, it certainly contains

specific final rates. And those you know, and those 1 are on the table, that can be embedded in the contracts 2 that Centra wants to write up and sign? 3 MR. NEIL KOSTICK: Yes, that's correct. 4 5 MR. BOB PETERS: But before you got to 6 those final rates you were running your model, coming 7 up with some -- some hurdles or some issues, presumably picking up the phone and asking ANR and Great Lakes if 8 9 they couldn't tweak a rate here or tweak a service there to help the model optimize better? 10 11 MR. NEIL KOSTICK: Through the process 12 of negotiation you attempt to get better and better 13 rates and services, and that's what happens wh -- or 14 what happened in our process of negotiation. And so 15 slightly somewhat different rates, lower rates would 16 ultimately impact the model results. 17 MR. BOB PETERS: Right. But does 18 Centra have any view as to those final rates that they 19 are now before the Board, would not have been available if Centra was running the pessimistic view from ICF? 20 21 MR. NEIL KOSTICK: We can't say. It's a different portfolio, different stor -- different 22 23 capacities. And we can't say what rates could 24 ultimately be agreed to if we chose 14.6 petajoules or 17.6 petajoules. There's no way that we can say that. 25

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MR. BOB PETERS: You can't say whether 1 it would be higher or lower, in all fairness? 2 3 MR. NEIL KOSTICK: We can't. We -- we can't essentially get into the minds of ANR and Great 4 5 Lakes and all the factors that they take into account 6 when they propose to make a rate available to Centra. 7 MR. BOB PETERS: When you look at Option B at the bottom half of the page found at Tab 19 8 9 of Board counsel's book of documents, those were the model runs from SENDOUT using the ICF optimistic and 10 pessimistic view as well? 11 12 MR. NEIL KOSTICK: Yes, that's correct. 13 MR. BOB PETERS: And embedded in that 14 again are the rates that were ultimately used by Centra 15 in proposing it's optimal portfolio to this Board? 16 MR. NEIL KOSTICK: The rates used for 17 Option B were the best rates that we negotiated with 18 the Option B party. So they're not the same rates as -19 - as the ANR rates, but they are the same rates that were shown in Tab 7 of the application for Option B. 20 21 MR. BOB PETERS: And when we -- when 22 the Board looks at the results, Mr. Kostick, would it be a conclusion that Option B requires, under the 23 pessimistic view, less storage capacity than does the 24 25 ANR option?

279 1 MR. NEIL KOSTICK: Under Option B the model selects generally a lower capacity, but 2 ultimately total portfolio costs are higher than the 3 4 ANR option. 5 MR. BOB PETERS: And you're comparing under -- under the line item number 9, for example, 6 you're comparing the \$402 million to the \$404 million 7 found at line 32? 8 MR. NEIL KOSTICK: In year 5 of the 9 10 pessimistic scenario, yes, that's correct. 11 MR. BOB PETERS: So even though the 12 storage volumes may be less, the price is -- is 13 marginally more? 14 MR. NEIL KOSTICK: The price for Option 15 B is more on a total portfolio basis. 16 17 (BRIEF PAUSE) 18 19 MR. BOB PETERS: And, Mr. Kostick, when 20 we look at the -- whether we look at the optimistic, or 21 the pessimistic view, the storage costs are, again, 22 almost the same, but just a little bit more for more --23 for most of the options? 24 25 (BRIEF PAUSE)

MR. NEIL KOSTICK: I don't know that 1 the storage costs are almost the same. I think that's 2 subjective as far as what "almost" means, but the 3 storage costs are different in -- in every scenario. 4 5 That's all that I can say. 6 MR. BOB PETERS: Okay. We'll let the numbers -- the numbers speak. At Tab 17 of the book of 7 documents is a -- a further Information Request asked 8 9 of Centra in this proceedings. And when Centra ran its model, Mr. Kostick, Centra, in essence, built in 10 11 constraints on the model. Is that correct? 12 MR. NEIL KOSTICK: Yes, that's correct. 13 MR. BOB PETERS: And Centra lists the five (5) constraints that Centra built into the model. 14 15 And these constraints will have an impact on the optimal portfolio. Would you agree with that? 16 17 MR. NEIL KOSTICK: Yes, I would agree. 18 MR. BOB PETERS: And while there's some 19 detail provided, can you just briefly explain to the 20 Board why Centra put in a constraint, the first one, 21 the 21,101 gigajoules a day of Emerson ANR injection 22 point or Farwell capacity? 23 MR. NEIL KOSTICK: Yes. In the natural 24 gas marketplace there are what are considered major 25 hubs that have a lot of pipelines either leading to

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1 them or from them, and a lot of market participants in 2 terms of marketers and buyers and sellers. Those would 3 be major hubs such as AECO, Henry Hub, or Chicago, are 4 three (3) of the largest in North America.

5 You also have points on pipelines which 6 are relatively small, but they are identified as points 7 where gas can be traded such as Emerson at the US-Manitoba border. In that case you only have one (1) 8 9 pipeline feeding Emerson, that being TransCanada, and 10 two (2) pipelines taking gas away from that point into 11 the US. So it's -- there's -- there are not a lot of 12 pipelines. There are not a lot of transactions taking 13 place at that point.

14 It's what considered -- it is what is 15 considered to be a far less liquid supply hub then say 16 AECO, Chicago, or Henry Hub. Less liquid supply points 17 are subject to more volatility in terms of if one (1) market participant who is buying and selling at that 18 19 point pulls out of the market, or if one (1) pipeline 20 that is interconnected at that point has major changes 21 in tolls or other circumstances, it could have a major 22 impact on pricing for that hub.

Whereas a point like Chicago would be far less impacted by one (1) market participant leaving the market, or one (1) pipeline, for example, being

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shut down for operational reasons, because there are
 many pipelines leading into Chicago and many buyers and
 sellers at Chicago.

4 So Emerson is a far less liquid point 5 than Chicago, or AECO, or Henry Hub. As such, we want 6 to place less reliance on buying natural gas at 7 Emerson. As such, we limited purchases at Emerson to 8 no more than 21,000 gigajoules per day.

9 In the case of Farwell and the ANR 10 injection point, those are -- may -- maybe just to back up one (1) step, Emerson, even though it's not very 11 12 liquid as a hub, there is electronic trading data. You 13 can buy gas off the screen. So there's essentially an 14 electronic pat -- platform that is the market, and you 15 can buy gas off the screen even though it may not trade 16 heavily -- or, in fact, trades fairly lightly most of 17 the time.

18 The ANR injection point and Farwell do 19 not have live electronic dating -- or live electronic 20 trading and -- I'm not sure what kind of slip that was, 21 but -- I am a married man, by the way, so. The -- the 22 -- the ANR injection point and Farwell do not have live electronic trading. They also do not have published 23 indexes. So price discovery is more difficult at those 24 25 points, and there's really no way to measure how much

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gas is being traded at Farwell or the ANR injection 1 2 point. 3 So similarly, we limited purchases at 4 those points to normal -- no more than 21,000 5 gigajoules per day. However, we still felt we should 6 be able to obtain gas at those points even though price discovery could be difficult, because there is gas 7 moving in that vicinity, because those points are close 8 9 to ANR storage in Michigan where gas tends to be --10 tends to be moving on a regular basis. 11 12 (BRIEF PAUSE) 13 14 MR. BOB PETERS: What you've told the 15 Board is that that first constraint was really designed 16 so that the model doesn't prescribe Centra buying a lot 17 of gas at Emerson or the ANR injection point or at 18 Farwell because Centra has concerns over what that gas 19 may ultimately cost? 20 MR. NEIL KOSTICK: That's correct. We 21 felt it was reasonable to include those at a limited 22 level, that we wouldn't be overly exposed if we bought gas at those points on a somewhat limited basis. But 23 we certainly wouldn't want the model arriving at a 24 25 conclusion that 50 percent of all the gas we buy should

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1 be at any of those points, as that would be too risky 2 in our regard with respect to how pricing at those 3 points could vary from expectations.

MR. BOB PETERS: If there's no electronic trading for Farwell and ANR, how does Centra know the price of gas to buy at those hubs?

7 MR. NEIL KOSTICK: In the case of ANR injection point and Farwell, those are points that are 8 9 within Michigan. Gas that is bought or sold in 10 Michigan can generally be indexed to the major hub in Michigan, which is the MichCon Hub. Those points are 11 12 not on the MichCon system and they're not MichCon Hub 13 points, but you should be able to buy gas indexed to the MichCon -- to the MichCon hub, and the MichCon Hub 14 15 does have a published index. What you have to assume 16 through market intelligence is that there would be some 17 likely premium above the MichCon Hub price in order to 18 get gas -- in order to be able to acquire gas at those 19 alternate points.

20 MR. BOB PETERS: Likewise, a constraint 21 was put on the model not to have more than 42,202 22 gigajoules a day of capacity from Joliet into storage, 23 correct?

24MR. NEIL KOSTICK:Yes, that's correct.25MR. BOB PETERS:That's -- that's a new

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feature? 1 2 MR. NEIL KOSTICK: That is a new feature of the proposed portfolio, yes. 3 4 MR. BOB PETERS: And, in fact, the new 5 portfolio proposes exactly to the gigajoule per day 6 that amount, forty-two thousand two hundred and two 7 (42, 202)? 8 MR. NEIL KOSTICK: Yes, that's correct. 9 MR. BOB PETERS: Was the constraint 10 applied before the model did its work or was the constraint selected based on previous runs of the 11 12 model? MR. NEIL KOSTICK: 13 The constraint was 14 derived from our negotiations with ANR. The capacity 15 for that transportation path from the Chicago market to 16 storage I believe ANR priced for us at 93 percent below its tariff rate. And ANR had limits on how much it 17 18 wanted to sell at that price. And that's how that 19 constraint was derived. That -- that was the limit 20 they were willing to offer. MR. BOB PETERS: 21 The limit they were 22 willing to offer at that reduced tariff? 23 MR. NEIL KOSTICK: Yes, that's correct. 24 MR. BOB PETERS: Likewise, the 25 constraint of 52,753 gigajoules a day of MichCon supply

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286 -- and this doesn't relate just to MichCon index supply 1 but it relates to MichCon -- the MichCon Hub? 2 3 MR. NEIL KOSTICK: Yes, that would be 4 gas that would effectively be acquired at the MichCon 5 Hub. 6 MR. BOB PETERS: How did Centra come up with this number as a constraint? 7 8 MR. NEIL KOSTICK: That was also the product of negotiation with -- with the Option B 9 portfolio. 10 11 MR. BOB PETERS: And it was a 12 constraint applied to both Option A and Option B? 13 MR. NEIL KOSTICK: No, this was just 14 applied to the Option B portfolio. 15 MR. BOB PETERS: The TCPL capacity, the storage transportation service or the STS service was 16 17 also a constraint that was built in, correct? 18 MR. NEIL KOSTICK: Yes, that's correct. 19 MR. BOB PETERS: And the constraint is 20 exactly the same as the current winter operation constraint or contract? 21 22 MR. NEIL KOSTICK: Yes, that's correct. 23 MR. BOB PETERS: Why was that built in 24 as a constraint at that number? 25 MR. NEIL KOSTICK: That contract is a

287 long-term contract and renegotiating that contract is, 1 I quess you could say, difficult. So the provisions of 2 that contract were embedded in the model. And it's 3 also very difficult to -- it's a -- it's a fairly 4 5 unique contract that assumes bidirectional flows 6 depending on the season. And the rate structure is very unique. And it's essentially not possible to 7 model that contract in SENDOUT or, I presume, any other 8 9 model. 10 MR. BOB PETERS: The Board saw 11 yesterday a communication from Ms. Foulkes to TCPL 12 where Centra changed its quantity of firm 13 transportation. Correct? Remember that? 14 MS. LORI STEWART: Yes, that's correct. 15 MR. BOB PETERS: And that's an annual 16 election, Ms. Stewart? 17 MS. LORI STEWART: Yes, it is. 18 MR. BOB PETERS: And doesn't Centra 19 renew its STS service also on an annual basis? 20 MS. LORI STEWART: Yes, it does. At a 21 different time in the year, but yes, annually as well. 22 MR. BOB PETERS: But I -- I thought Mr. 23 Kostick was just telling the Board that it was subject 24 to a long-term contract. 25 MS. LORI STEWART: Centra's storage and

1 transportation service contract is a -- a long-term
2 contract as -- as Mr. Kostick referred to it. And it
3 was originally negotiated prior to the commencement of
4 -- of our current twenty (20) year arrangement with ANR
5 and Great Lakes.

6 The -- the amounts of that contract, or the contract demand, is subject to an annual renewal 7 process. And I -- I think it's important for the Board 8 9 to understand that we do have information from TransCanada that, given the terms embedded in that 10 contract, it would not be prepared to provide 11 12 additional capacity under the terms of our current 13 storage and transportation service contract. Those terms are -- are favourable for Centra. And at this 14 15 time, given TransCanada's situation, it would not be 16 prepared to allow us to increase those contract amounts 17 under the same parameters as we enjoy today. 18 MR. BOB PETERS: So Centra instructed 19 its model to use the maximum STS capacity of 20 TransCanada that it currently had under contract by which it considers the terms favourable? 21 22 MR. NEIL KOSTICK: The model was 23 allowed to use up to those capacities at the known 24 rates that we currently have under -- for that

25 contract.

1 MR. BOB PETERS: Ms. Stewart, it's perhaps my lack of understanding of TCPL's matters, but 2 that STS contract, you indicated that's -- that's been 3 4 something Centra has had for a long -- long period of 5 time? 6 MS. LORI STEWART: Yes, that's correct. MR. BOB PETERS: And did I understand 7 correctly that it was longer than twenty (20) years? 8 9 MS. LORI STEWART: My understanding is 10 that that contract was implemented in conjunction with 11 the current suite of Great Lakes and ANR assets. 12 MR. BOB PETERS: And under that 13 contract, are you telling the Board that Centra gets to 14 -- to keep those terms for the full twenty (20) years, 15 plus into the future? 16 MS. LORI STEWART: What I'm describing to the Board is that as long as TransCanada's tariff 17 18 for the storage and transportation service does not 19 change going forward, that we have the right to continue to renew at these contract demand levels. 20 21 However, I can't provide the Board with any assurance 22 as to TransCanada's intention with regard to its tariff 23 going forward. 24 MR. BOB PETERS: All right. So that's 25 a risk Centra faces in its storage and transportation

290 portfolio, is that the major back-haul route may be 1 subject to a higher tariff than it currently enjoys? 2 3 MS. LORI STEWART: Yes, that's correct. MR. BOB PETERS: And has Centra -- I'm 4 5 sorry, has TCPL asked to increase the STS tariff rate 6 in its proceeding before the National Energy Board? 7 MS. LORI STEWART: No, it has not. 8 MR. BOB PETERS: And Centra has no 9 assurance that the existing STS rates will be in place 10 for the full seven (7) years of the proposed portfolio? 11 MS. LORI STEWART: Yes, in the same 12 manner as we have no assurance today, nor did we back in 1993 as it relates to the rates associated with 13 14 storage and transportation service in TransCanada's 15 tariff. 16 MR. BOB PETERS: And, Ms. Stewart, 17 while Centra has no assurance of what the price of the 18 STS service will be going forward, can the Board 19 understand that Centra has assurance that it will have 20 that capacity available? 21 22 (BRIEF PAUSE) 23 24 MS. LORI STEWART: To be clear, Mr. 25 Peters, the -- the rates for the service are tied to

TransCanada's firm transportation rates. So I was 1 speaking about how we don't have assurance of the rate. 2 And we also don't have assurance of the terms under 3 which storage and transportation services provided. 4 5 Our understanding is that that capacity should be available to Centra. However, I cannot speak 6 7 to the future rate for the service, nor to the future terms and conditions of the service embedded in the 8 9 tariff. 10 MR. BOB PETERS: Because Centra 11 currently holds the STS service, Ms. Stewart, under NEB 12 regulation Centra can maintain that service although 13 the toll and the terms of that service may change? 14 MS. LORI STEWART: We would have the 15 right to do that. And, of course, we would make that 16 decision based primarily on the economics of -- of doing so based on the information we had at that time. 17 18 MR. BOB PETERS: And can you tell the 19 Board, what's the alternative to that STS service that 20 we saw way back at Tab 6 of the book of documents, when 21 we looked at the winter transportation? And I believe 22 your -- your back haul capacity was exactly the same as 23 the constraint put into the SENDOUT model? 24 25 (BRIEF PAUSE)

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292 1 MS. LORI STEWART: Mr. Peters, that -that's difficult for me to respond to. It would depend 2 on the pricing of alternative TransCanada services at 3 that time. And -- and I would prefer not to speculate 4 on -- on what the options we would have might be in 5 that theoretical situation. 6 7 MR. BOB PETERS: It may result in Centra needing an entirely newly designed portfolio? 8 9 10 (BRIEF PAUSE) 11 12 MS. LORI STEWART: Mr. Peters, it 13 certainly would be possible for Trans -- for Centra to 14 contract on TransCanada for capacity from Emerson, 15 which is the point at which our Great Lakes back haul 16 camma -- capacity terminates during the winter, and to 17 connect that Great Lakes capacity at Emerson with the 18 load by contracting on TransCanada, whether it would be 19 under a storage and transportation service arrangement 20 or some other type of service. 21 MR. BOB PETERS: Is this one (1) of the 22 toll -- is the STS toll, Ms. Stewart, one (1) of the 23 tolls that Centra expects some clarification and some certainty on as a result of the curre -- current 24 25 National Energy Board proceedings?

293 1 (BRIEF PAUSE) 2 3 MS. LORI STEWART: Yes, given the -the fact that the toll for the storage and 4 5 transportation service is a function of the firm 6 transportation toll. Yes, if -- if tolls are 7 increasing on the system, storage and transportation 8 tolls are also increasing. 9 10 (BRIEF PAUSE) 11 12 MR. BOB PETERS: Mr. Kostick, the last 13 constraint, before I leave it, at Tab 17 of the book of 14 documents, was Centra leaves some of its supply stack 15 uncommitted. 16 Is that correct? 17 MR. NEIL KOSTICK: In actual terms, no. 18 Everything is pre-contracted. Within the model we 19 just, for convenience and expedience, we simply told the model it didn't have to serve 50,000 gigajoules per 20 21 day under the coldest day of weather in the model. And 22 that simply made it easier to not have to embed peaking 23 services, which can, you know, vary year to year, in terms of their -- their price and structure. 24 25 So instead of trying to envision what

294 peaking services would be in the future, we simply told 1 the model not to worry about the top 50,000 gigajoules 2 of firm load that would need to be served on a peak 3 day, because we would simply put in peaking services as 4 5 we do today. 6 So it was a -- a matter of -- of convenience, from a modelling perspective, and it 7 achieved what we needed to achieve with respect to the 8 model results. 9 10 MR. BOB PETERS: Back to those supply stacks on Tab 8, I think, of the book of documents on 11 12 page 36, what you told the model was the peaking delivered service is not a concern for the model; that 13 will be something Centra's gas supply department will 14 15 find? 16 MR. NEIL KOSTICK: Essentially, yes. 17 MR. BOB PETERS: Okay. When the model 18 ran the -- when -- when the SENDOUT model was rerun to 19 remove the constraints, the results were provided in PUB/CENTRA-11-B, found at page 59 of Tab 17 of the book 20 21 of documents, Mr. Kostick? 22 23 (BRIEF PAUSE) 24 25 MR. BOB PETERS: You haven't lost your

book of documents, have you? 1 2 MR. NEIL KOSTICK: I have misplaced my reference to that -- to that. So if you can just give 3 me a moment, I'll just get that back. 4 5 6 (BRIEF PAUSE) 7 8 MR. BOB PETERS: And you're referring 9 to PUB/CENTRA-11, I believe, Mr. Kostick? 10 MR. NEIL KOSTICK: Yes, I'm with you 11 now. 12 MR. BOB PETERS: The numbers on this 13 page, on page 59 of Tab 17 of Board counsel's book of 14 documents, PUB Exhibit 7, represent Centra running the 15 SENDOUT model, but in essence taking the constraints 16 away. 17 Would that be fair? 18 MR. NEIL KOSTICK: Yes, that's correct. 19 MR. BOB PETERS: And perhaps you can 20 explain to the Board, down on line 12, when we look at 21 capacities and we see under futures curves the case 1, 22 ANR has a year 1 and year 5, the same as it did under 23 the preferred portfolio, correct? 24 MR. NEIL KOSTICK: Yes, that's correct. 25 MR. BOB PETERS: But the capacities for

1 storage appear markedly different. Can you explain 2 why, under year 5, the model would be suggesting that 3 an optimum portfolio would have 22.9 petajoules of 4 storage?

5 MR. NEIL KOSTICK: It looks like under 6 this particular price curve, year 5 under case 1 for 7 ANR, with the constraint removed for ANR injection 8 point supply, it heavily uses that supply to fill 9 storage. I think it is virtually filling all of the 10 storage with that supply.

11 And so based on that price curve, I 12 guess it likes that supply and it needs to serve an 13 additional 50,000 gigajoules per day. And when the model balances all of the various inputs and all the 14 15 various tradeoffs, so taking more of this and less than 16 that and less of that, it determines that a much higher storage capacity is desirable. And it wants to use a 17 lot of ANR injection point supply, and it also appears 18 19 to want to use more Farwell supply, which also had a 20 constraint removed. So it does produce something 21 different than what our -- if you want to call them our 22 base-case assumptions produced for that particular 23 price curve. 24 MR. BOB PETERS: Mr. Kostick, are you -

24 MR. BOB PETERS: Mr. ROSLICK, are you
25 - are you certain that the reason for that is because

297 of -- of what you've indicated now on the record, or is 1 that just your conclusion based on removing the 2 constraint and seeing the result? Did the model tell 3 you exactly where that additional cost came from? 4 5 MR. NEIL KOSTICK: Which additional 6 cost are you referring to? 7 MR. BOB PETERS: I meant the additional capacity for -- for storage. Did it tell you as a 8 9 result of being able to inject from ANR into storage more than the 21,000 gigajoules a day? 10 11 MR. NEIL KOSTICK: I'm looking at line So at line 20, on average annually it's buying 12 20. almost 23 petajoules of ANR injection point supply. 13 So in some years that could be half of our -- like in a 14 15 very warm year that could be almost half of our requirements -- not -- not quite half, but -- yeah. 16 So there's essentially a lot of ANR injection point supply 17 18 being purchased. And that supply in the model can only 19 flow into storage. So it's filling up a lot of storage with a lot of ANR injection point supply. So that's 20 how I came to that conclusion. 21 22 MR. BOB PETERS: The model is -- is 23 telling Centra that it is assuming that the ANR gas 24 that you can purchase an unlimited amount of is cheaper 25 than getting it from Western Canada?

1 MR. NEIL KOSTICK: For the purposes of filling storage, the model determined that it liked a 2 lot of storage capacity and that it liked to use the 3 ANR injection point supply to fill the storage. 4 5 MR. BOB PETERS: When the constraints 6 are removed from -- and let's pick the case 1-ANR Year 1, the total costs of storage are about \$251.1 million, 7 correct? 8 9 MR. NEIL KOSTICK: That would be the 10 total portfolio cost, so all costs. 11 MR. BOB PETERS: Yes, sir. That 12 includes the supply? 13 MR. NEIL KOSTICK: Yes, supply, storage 14 and transportation. Total portfolio costs in case 1 15 for ANR, year 1 of the curves is \$251.1 million. 16 MR. BOB PETERS: Can you explain to the 17 Board why, if we flip ahead to Tab 18 and we look under 18 the same -- for the same number under the -- under the 19 optimized proposed portfolio the price -- the total price is \$246.9 million. Why does removing the 20 21 constraints increase the price? 22 MR. NEIL KOSTICK: That should be 23 largely related to the fact that the model has to serve that additional 50,000 gigajoules per day. So it puts 24 25 assets in place to cover off our firm peak day, whereas

1 in practice we would be using some form of peaking 2 service. And our physical portfolio of transportation 3 and storage contracts do not have to directly serve 4 that 50,000 gigajoules per day as per our current 5 practice.

6 So it has -- in any gas supply portfolio, the -- your peak requirements are going to 7 be relatively expensive to serve because they happen 8 9 relatively infrequently. Your design firm peak day is based on a day in history, and there's no telling when 10 it's going to be repeated. But if you tell your model 11 12 or your tell your portfolio in practice that has to 13 serve that design peak day, it's going to be expensive 14 because you're going to have put in assets to serve 15 that.

16 Our approach is to use peaking services, 17 which are a much more cost-effective way of addressing 18 our coldest -- coldest assumed weather scenario on a --19 on a cost-effective basis.

20 MR. BOB PETERS: Mr. Kostick, since 21 we're on a roll with looking at these numbers, can we 22 turn to Tab 19 of the book of documents and look at an 23 answer to an Information Request that Centra provided 24 to the Board, and charted in PUB/CENTRA-10(b), as found 25 on page 72 of the book of documents again located under

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300 Tab 19. Can you let me know when you've located that? 1 2 MR. NEIL KOSTICK: I'm there. 3 MR. BOB PETERS: Now for the Board's 4 background on this questioning, Mr. Kostick, this was 5 where the price curves were changed from what was 6 provided in the proposed portfolio, correct? 7 MR. NEIL KOSTICK: Yes, that's correct. 8 MR. BOB PETERS: And there was a 35 9 percent increase and a 35 percent decrease in the 10 TransCanada tolling price that was built into the 11 model? 12 MR. NEIL KOSTICK: Yes, that's correct. 13 MR. BOB PETERS: And when the Board looks at the results for this, and assuming under the 14 15 ANR arrangement at the top of the page, for the plus 35 16 percent on tolls, the capacity goes up to 18.2 17 petajoules under the one (1) year price curve, and up 18 to 20 petajoules under the five (5) year price curve, 19 correct? 20 MR. NEIL KOSTICK: Yes, that's correct. 21 22 (BRIEF PAUSE) 23 24 MR. BOB PETERS: Can you explain to the 25 Board why the storage capacity would be increased even

with the tolls going up 35 percent? 1 2 MR. NEIL KOSTICK: The model is assessing on a total portfolio basis how to minimize 3 the costs of the portfolio. And when it looks at 4 rising TransCanada tolls it determines that more 5 6 storage is a way to reduce reliance on TransCanada and, therefore, avoid paying more of those high tolls. 7 So it is responding to the high TransCanada tolls by 8 9 reducing -- reducing TransCanada capacity and changing 10 other parts of the portfolio that -- that it can rely on more heavily, such as storage. 11 12 MR. BOB PETERS: Is it reducing 13 TransCanada's STS service needs and finding alternate 14 ways to -- to put gas into storage? 15 MR. NEIL KOSTICK: It appears from the 16 numbers that we have here that -- actually, I'll just cross-reference this with the -- with the Tab 7 results 17 18 if I could, if you could hold on for a moment. 19 MR. BOB PETERS: When you say "Tab 7," 20 you're referring to Centra's application Tab 7? 21 MR. NEIL KOSTICK: Yes, that's correct. 22 MR. BOB PETERS: And that would be the 23 same chart found at Tab 18 of Board council's book of 24 documents? 25 MR. NEIL KOSTICK: Yes, that's correct.

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1 MR. BOB PETERS: Okay. Just -- thank you for that. Please cross-reference them as you 2 indicated. 3 4 MR. NEIL KOSTICK: It generally appears 5 in comparing the -- the ANR results that you're 6 referring to in PUB-10(b) versus what we filed in Tab 7 7, that there isn't a dramatic difference. 8 Sorry, hold on one (1) moment. 9 10 (BRIEF PAUSE) 11 12 MR. NEIL KOSTICK: This is a -- a 13 little bit of analysis on the fly here, and I quess as 14 everybody can appreciate there are a lot of different 15 model results contained within the book of documents in 16 that -- we ultimately performed. 17 But I believe it's still using, to a 18 certain degree, western Canadian supply to fill 19 storage. I couldn't tell you if it was using exactly the same amount that it would be using under the Tab 7 20 21 results, but I believe it's still using a certain 22 amount of Canadian supply to fill storage along with 23 likely increasing amounts of other US supplies to help 24 fill storage, as it does have to fill quite a bit more 25 storage. So that's what I can, at a high level, pull

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out from the numbers in front of us here right now. 1 2 MR. BOB PETERS: In addition, Mr. Kostick, would the model, in changing the TCPL tolls, 3 also change the basis differentials as between the mi -4 5 - the various hubs that we looked at yesterday, in 6 terms of the gas supply options? 7 MR. NEIL KOSTICK: In these model results the only change made was the tolls, either plus 8 9 or minus 35 percent. There is no corresponding effect on -- on any other gas hub pricing embedded in the 10 11 model --12 MR. BOB PETERS: Would Ce -- would --13 would Centra expect other gas hubs' prices to change 14 relative to each other if the TCPL tolls changed by 35 15 percent? 16 MR. BRENT SANDERSON: If I might weigh 17 in on this, Mr. Peters. It's very, very difficult to say, in that there's innumerable variables that affect 18 19 the market price of gas at and between different hubs. 20 One could, on the face of it, make an 21 assumption that increasing tolls would continue to 22 drive down the market price of gas in Alberta to 23 counterbalance the effect of the tolls and continue to 24 maintain somewhat econo -- economic attractiveness of eastern shippers purchasing Western Canadian gas. 25

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1But you can just as easily envision a2circumstance where TransCanada tolls were to rise to3such a level that it would become completely uneconomic4for any eastern shippers to purchase gas in Western5Canada.6And you might see a wholesale movement

of the development of a number of outlets to export 7 Western Canadian gas in the form of LNG to Eastern 8 9 Pacific markets, which could have the case of 10 simultaneously, at the same time, the TransCanada tolls are increasing dramatically, which could increase the 11 12 call on Western Canadian gas and drive up the market 13 price of Western Canadian gas at the same time. So it's very difficult to make an 14 15 assumption for the purpose of a SENDOUT model run, what 16 the effect would be of a change in TransCanada tolls, because there will be other puts and takes and 17 18 reactions going on in the marketplace coincident with 19 that, should that happen.

20 So it's -- it's simply impossible for 21 Centra to be able to determine what the effect on the 22 commodity -- price of the commodity would be at any one 23 (1) point as a result of a change in that one (1) 24 factor. 25 MR. BOB PETERS: Mr. Chairman, I'm

going to review my notes but move on, I think, to a 1 different topic that'll take a few minutes to cover. 2 And I wondered if this would be an opportune time for 3 the morning recess. 4 5 THE CHAIRPERSON: Do you mind if I ask 6 some question rela -- regarding what we've been talking 7 about before we take a break? I just want to make sure I understand what's going on with respect to the 8 9 modelling. 10 It seems to me that what I've been 11 reading is that TCPL tolls are more likely to go up 12 than go down, given the fact that there's more and more 13 capacity becoming available and there are a lot of 14 costs that have to be recouped from a declining number 15 of shippers. 16 It seems to me that while we may get a drop in TCPL tolls short term, the likelihood is that 17 18 TCPL tolls over time will go up. 19 Am I wrong there or am I misjudging the situation? 20 21 MS. LORI STEWART: I think you've 22 assessed the situation accurately. 23 THE CHAIRPERSON: Okay. So in the 24 context where TCPL tolls are more likely to go up than 25 go down, then there would be -- it seems to me the

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models are telling us that storage needs to be 1 increased to avoid higher TCPL tolls. Am I -- am I 2 wrong there? In other words, it would put a -- it 3 would put pressure on the extent of storage. 4 5 It -- the storage would be higher than 6 otherwise based on the modelling that we've looked at? 7 MS. LORI STEWART: Directionally, your understanding is correct. 8 9 THE CHAIRPERSON: Okay. So as prices 10 go up, you want to increase storage. So the other question I have is in respect to the -- to the time 11 12 horizon that's been selected on the modelling. It's 13 five (5) years. And the contract terms are now --14 we're looking at are seven (7) years. 15 Now, could you have used the model to go to seven (7) years out? 16 17 MR. BRENT SANDERSON: The reason for 18 bookending, so to speak, the model analyses with --19 with a near-year set of market prices and a year of 20 prices five (5) years out is more a function of the 21 difficulties in obtaining market prices beyond five (5) 22 years. 23 The markets, in terms of futures 24 contracts, become much mi -- much less liquid beyond 25 five (5) years.

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1 For example, there is no futures price beyond five (5) years that we can obtain in the 2 marketplace. There's no financial instruments or 3 4 futures contracts that trade beyond that. And the market becomes much less liquid beyond that. 5 6 And these other less predominant points 7 -- for example, Farwell and so forth -- it is virtually impossible to -- to get any forward price discovery out 8 9 that far. 10 So it's just more a function of -- it's 11 not so much a function of correlating the annual -- the 12 prices we looked at with the contract term; it's just 13 to develop some reasonable bookends to look at two (2) 14 different price scenarios. And beyond that, it's very 15 difficult to obtain market price views, the consensus 16 opinion of the market as future prices at all of these various points. 17 18 THE CHAIRPERSON: It seems clear to me 19 that as you go out in -- in terms of years, prices are 20 predicted as going up, you know, because of cost of money and so on. And so it cl -- clearly we're seeing 21 22 higher prices as the years increase. 23 And as the years increase, we're getting 24 -- the modelling is telling us we need more storage. 25 So I guess the question is: By picking

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-- picking fifteen point five (15.5), it seems to me 1 that you have, sort of, opted to go towards a shorter-2 term horizon despite the fact that you're looking at a 3 seven (7) year contract. 4 5 In other words, what -- what I'm 6 suggesting is that if you look at the results you're 7 getting and you decide to go fifteen point five (15.5), it -- it seems to me that you opted then for a shorter-8 9 term horizon as the point at which you will establish 10 the kind of optimal storage capacity. 11 12 (BRIEF PAUSE) 13 14 MR. BRENT SANDERSON: In terms of our 15 base case analysis in Tab 7 of the book of documents, 16 at page 61, if you see with our futures curves in the 17 ANR portfolio, actually the reverse of what you 18 described is just -- is actually true in that, in the 19 year 5 analysis, if you -- if you go down to the "Storage" line and look at capacity in petajoules under 20 21 the first two (2) columns to the right of that, the 22 model actually indicates a marginally lesser 23 requirement for storage in year five 5, with the higher 24 market prices than in year 1. 25 I would say, from a modelling

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practitioner's perspective, the numbers are essentially 1 identical in terms of statistical significance. 2 3 In any cases where the model would have 4 called for higher amounts of storage in the farther-out 5 years, it wouldn't be so much a function of the fact 6 that prices are higher as opposed to the fact that the market price curves in the fifth year show increasing 7 summer/winter price differentials. 8 9 And the perfect foresight of the model 10 then endeavours to exploit or arbitrage those seasonal price spreads by driving you to contract more storage 11 12 to play the seasonal price spread. And as we've seen, 13 those price spreads, while they -- there is an 14 averaging -- an average phenomena whereby winter prices 15 are approximately 10 percent on average higher than 16 summer prices, it's very, very uncertain as to what each year's outcome will be. And Centra does not 17 18 engage in the holding of assets to speculate on 19 seasonal price spreads in the commodities market. 20 And -- and in terms of just responding 21 to the upward-sloping nature of the futures price 22 curve, most of the time, futures prices will indicate a upward-sloping tendency in prices due to general price 23 inflation and so forth, the increasing cost to hold 24 25 assets and so forth. But that's not always the case.

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There has been numerous times over the 1 past decade where futures prices actually indicate an 2 expectation for declining prices over the future period 3 that one is looking at. 4 5 So that is the tendency, but there has 6 been numerous occasions -- for example, in the summer 7 of 2008 -- where if you looked out five (5) years at that time, there would have been a pronounced downward 8 9 sloping in the price curve, indicating a market expectation that prices would be declining over the 10 11 foreseeable future. THE CHAIRPERSON: Looking at the -- at 12 13 the same table in respect of the storage costs, I mean, they represent a relatively small portion of the total 14 15 costs that are incurred or could be incurred by Centra. 16 Yeah. I mean, it's a relatively small percentage of -of the total costs that, you know, might be incurred in 17 18 total. 19 Now, I guess the question is: Given 20 that it's a relatively small cost, why not increase the 21 storage if it gives you more flexibility with respect 22 to longer-term prices? 23 24 (BRIEF PAUSE) 25

1 MR. NEIL KOSTICK: You're -- you're actually making a very good point that the storage 2 costs in total are a very small portion of the total 3 portfolio costs. Ultimately, our decision was driven 4 5 or took into account the model results in our base 6 case, if you will, which suggested storage in that 7 roughly 15 1/2 petajoule range. 8 What we're also happy about, as far as 9 what we've been able to negotiate, is the component of the annual storage for very little -- virtually no 10 premium over the -- the regular seasonal storage rate. 11 12 And that essentially gives us the ability to cycle an 13 additional 3.1 petajoules through the storage on an annual basis. 14 15 So the 15.5 petajoules can, in effect, become 18.6 petajoules with the ability to cycle. And 16 that came with a very, very small premium as far, as 17 18 the total storage costs go. 19 THE CHAIRPERSON: Since -- since the --20 since the models have been run, what's happened with 21 respect to the market? My sense is that the market --22 the gas prices are in a decline mode or have been in a 23 decline mode, generally speaking. 24 So am I -- am I wrong there or -- in 25 other words, have you -- have the markets proven your

decisions to be right in the intervening months since 1 we've been -- since you've run the models? 2 3 MR. BRENT SANDERSON: The prices that we reflected in the model, in terms of what the futures 4 5 markets were telling us, were taken in January of 2012. 6 So prices did continue to fall thereafter. It's a bit of a moving target and, you know, it moves every day. 7 And it's on -- your prices are only as good as 8 9 yesterday's market close. 10 They have increased somewhat in the past 11 couple of weeks, but I would say the fundamental 12 expectation of the market is, for all intents and 13 purposes, very similar to what it was in January. 14 MR. RAYMOND LAFOND: We are now looking 15 strictly at the transportation and storage portfolio. 16 What is the link with the gas supply? I mean, we have different timelines, in terms of contracts. 17 18 Is that relevant or not relevant? 19 MS. LORI STEWART: We have different 20 timelines for supply contracting, as opposed to 21 transportation and storage contracting, in -- in large 22 part because the premium that we would pay to agree to 23 a formula, an index-base formula, for supply that far 24 out in the future would come with a fairly hefty 25 premium.

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1 So transportation and storage assets are 2 long-term, enduring assets and the service provider is generally looking for longer-term contracts to match 3 with that investment horizon. 4 Supply is -- is different. And as soon 5 6 as you start pushing out past a year or two (2), then -7 - and you're looking to, in essence, fix your price formula out in time, then we would pay -- or -- or we -8 9 - we believe that we would incur a risk premium associated with that. 10 11 That's compounded currently by two (2) 12 major applications that have been made to the National 13 Energy Board by TransCanada. The first one (1) we've 14 discussed already a wee bit in this -- in this 15 proceeding, and that's its mainline business services and restructuring proposal. And that's associated with 16 the setting of mainline tolls for 2012 and 2013. 17 18 There is another major application that 19 is related to extraction rights for natural gas liquids from the natural gas. And that proposal is viewed --20 21 it's another component of significant uncertainty about 22 supply pricing out of the Western Canadian Sedimentary 23 Basin right now. 24 That application is ref -- commonly 25 referred to as the NEXT application, N-E-X-T. It's

1 associated with extraction rights. And, basically, the 2 market right now would have no appetite to price supply 3 out any further than two (2) years.

4 MR. BRENT SANDERSON: But if I may, if 5 I just might help in terms of industry terminology for 6 the assistance of the Board, natural gas liquids to which Ms. Stewart referred to are with reference to the 7 heavier end of the gaseous hydrocarbon spectrum, 8 9 propane, butane, isobutane ethanes, which in comparison to the market price of natural gas has much higher 10 value because they're used in plastics and chemical 11 12 manufacturing and other value-added products.

13 And those prices -- the market prices 14 for those heavier ends are more determined relative to 15 oil and liquid petroleum prices than the price of 16 methane or natural gas. And so there's a lot of 17 discussion going on in the marketplace as to who gets 18 to keep the value of those liquids stripped off the 19 natural gas stream before it leaves the producing 20 region to the transportation pipeline systems, because 21 that gas has to be processed to what's called "pipeline 22 specifications." And all of those liquids have to be 23 removed from the gas stream because it causes numerous problems in the transportation pipeline system in terms 24 of how they behave physically. 25

MR. RAYMOND LAFOND: We've alluded to 1 this yesterday very briefly. And I -- and I know it 2 does not apply within the current time constraints. 3 However, the whole issue of the possibility of 4 5 developing Manitoba storage over the se -- se -- next 6 seven (7) years, is Centra going to be or intending on looking at it? And if so, itself or with a third 7 party? 8 9 MR. NEIL KOSTICK: With respect to the 10 timing of local storage developed within Manitoba, we 11 think that it would take a number of years to develop. 12 It would probably take you to 2020 to develop if it 13 were deemed to be economic and technically feasible. 14 So our intention is to continue to 15 examine the issue. We've had some work done on it at a 16 very high level to determine what next steps could be 17 taken to further investigate. So we'll be engaged in 18 that on an ongoing basis to determine next steps to 19 further examine the matter and to try to be as well positioned as possible looking forward to 2020 to 20 21 potentially be able to put such a facility in place, 22 recognizing that, as we talked about yesterday, it is 23 still a high-cost option in comparison to the types of 24 rates that we're getting today for storage that we 25 essentially lease in Michigan.

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MR. RAYMOND LAFOND: 1 Also, TransCanada 2 Pipelines was considering converting a portion of its infrastructure to oil. Is that still being looked at? 3 I read that in the materials. Is that still being 4 5 looked at? Is it a serious consideration? And could 6 it affect the tolls currently charged in the future? 7 MS. LORI STEWART: Yes, my understanding is that that is being evaluated by 8 9 TransCanada at -- at present. Mr. Girling, who is the president and CEO of TransCanada Corporation, made 10 reference to that possibility in a recent annual update 11 12 to shareholders. The vice-president of pipelines for 13 TransCanada, Mr. Lohnes, also made reference to that in his opening remarks on day 1 of TransCanada's mainline 14 15 restructuring proceeding. So I do believe that that is under 16 serious consideration by TransCanada. It would -- such 17 18 a proposal, depending on the extent of the capacity 19 that was targeted for repurposing, to move -- to move oil, it would have a positive effect on the pipeline 20 21 from the perspective that currently everyone is aware 22 of the significant excess capacity on that pipeline. And that causes some challenging -- challenges from a -23 - a pricing of services perspective, because the entire 24 25 market is aware that the pipe is half empty, or more

1 than half empty, at this point.

In recent experience TransCanada did convert one (1) of its lines to move oil. And that's the original Keystone project; not Keystone XL, but -but the original Keystone conversion.

And I would have to go and review those 7 materials in depth, but generally speaking, there was 8 not a material change to the rate structure, because, 9 you know, that asset was transferred at book value. 10 That asset was fairly depreciated at that point.

And so we didn't really see any material reduction in tolls as a result of that conversion, but moving up and flying at an even higher level, I do think that that -- that such a proposal would help to address the excess capacity situation that -- that currently exists on the mainline.

17 MR. RAYMOND LAFOND: So in other words, 18 what I'm hearing is using book value certainly would be 19 a lot less than if they would use a val -- a 20 replacement value of building a new pipeline to transport oil. 21 So that makes a big difference, and --22 23 and I can understand how it would really influence the 24 current tolls. 25 MS. LORI STEWART: Yes, that's correct.

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318 And I expect that there would be a very healthy debate 1 about which value is being assigned to any asset that 2 is being suggested -- suggested to be repurposed. 3 4 MR. RAYMOND LAFOND: Thank you. 5 THE CHAIRPERSON: Let's take ten (10) 6 minutes, so back in -- back here at twenty (20) after 11:00. 7 8 9 --- Upon recessing at 11:08 a.m. --- Upon resuming at 11:22 a.m. 10 11 12 THE CHAIRPERSON: Back to you, Mr. 13 Peters. 14 MR. BOB PETERS: Yes, thank you. 15 16 VINCE WARDEN, Resumed 17 18 CONTINUED BY MR. BOB PETERS: 19 MR. BOB PETERS: Good morning, and just for the record we should note that Mr. Warden has 20 21 rejoined the panel. Welcome back, Mr. Warden. 22 MR. VINCE WARDEN: Thank you. 23 MR. BOB PETERS: Mr. Warden, I guess I 24 have to confess, I did use your name a couple of times this morning. And if during a review of the transcript 25

there's any comments attributed to you or information 1 that you'd like to revise or provide information to the 2 Board on, please do so through your counsel. 3 4 MR. VINCE WARDEN: Yes, thank you, Mr. 5 Peters, I'll do that. 6 MR. BOB PETERS: All right. I'd like to move on, Mr. Chairman and Board members, with the 7 book of documents and Tab 20. Tab 20 is a brief report 8 9 -- or, briefer than the other report -- from ICF International. 10 11 Mr. Kostick, is this one (1) that your 12 familiar with? 13 MR. NEIL KOSTICK: Yes, I am. 14 MR. BOB PETERS: Well, let's continue 15 our discussion then. This follows the -- the Feb -sorry, the June 2011 report that was filed under Tab 4 16 of Centra's application? 17 18 MR. NEIL KOSTICK: Yes, that's correct. 19 MR. BOB PETERS: And ICF was retained 20 by Centra for, I think we've said, approximately a 21 quarter of a million dollars. 22 And it reviewed, amongst other things, 23 portfolio options? 24 MR. NEIL KOSTICK: Yes, part of the 25 overall engagement was to help assess portfolio

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1 options. 2 MR. BOB PETERS: And part of the overall engagement was to provide an update to Centra 3 as to the natural gas market in North America? 4 5 MR. NEIL KOSTICK: Yes, that's correct. 6 MR. BOB PETERS: ICF did not get its 7 hands on Centra's SENDOUT model, did it? 8 MR. NEIL KOSTICK: No. As we discussed 9 yesterday, ICF has its own proprietary models that it would have used. 10 11 MR. BOB PETERS: And Centra didn't get 12 its hands on ICF's models, did they? 13 MR. NEIL KOSTICK: No, it did not. 14 MR. BOB PETERS: And let's cut to the 15 chase. On page 3 of the report from ICF, found on page 80 of the book of documents for those who are 16 17 following, ICF, Mr. Kostick, comes up with four (4) 18 conclusions. 19 Is that correct? 20 MR. NEIL KOSTICK: I just want to make 21 sure I'm in the right place. I might have a --22 MR. BOB PETERS: Yes, the --23 MR. NEIL KOSTICK: -- different version 24 of the book of documents. 25 MR. BOB PETERS: -- the analysis --

it's Tab 20. 1 2 MR. NEIL KOSTICK: It's page 3, I guess? 3 MR. BOB PETERS: Yes, page 3 of the --4 5 MR. NEIL KOSTICK: Okay. MR. BOB PETERS: -- actual ICF report, 6 7 or page 80 of the book of documents, and there's the analysis results from ICF. 8 9 MR. NEIL KOSTICK: Yes, I see them, 10 starting at the bottom of the page? 11 MR. BOB PETERS: Yes. 12 MR. NEIL KOSTICK: Yep. 13 MR. BOB PETERS: Thank you, sir. And before we deal specifically with all four (4) -- and 14 15 we'll give Centra an opportunity to speak to them, 16 Centra made a decision not to put all of its eggs in 17 the ICF basket when it was assessing it's portfolio. 18 Would that be fair? 19 MR. NEIL KOSTICK: Yes, we conducted 20 our own analysis as well. 21 MR. BOB PETERS: And Centra knew it was 22 going to conduct its own analysis even before it 23 engaged ICF? 24 MR. NEIL KOSTICK: As we talked about 25 yesterday, we had anticipated using the SENDOUT model,

yes. 1 2 MR. BOB PETERS: Did you tell ICF you were going to use the SENDOUT model? 3 MR. NEIL KOSTICK: 4 Yes. 5 MR. BOB PETERS: And the reason for 6 having ICF do its work and Centra doing its work was to 7 just gain a higher level of comfort? MR. NEIL KOSTICK: I -- I think it 8 9 provided the opportunity to see two (2) different sets of model results in order to determine whether there 10 would be any significant difference between one (1) 11 12 model result versus the other. In which case, you'd 13 want to -- to get into it a little more and determine 14 what are the factors that are driving out different 15 results. 16 As we did talk about yesterday, the results are directionally similar between the modelling 17 18 conducted by Centra and the modelling conducted by ICF. 19 MR. BOB PETERS: Well, we'll come to 20 the specifics on that, Mr. Kostick. But where Centra 21 sees any difference between the model results from ICF and the model results from SENDOUT, Centra has 22 23 preferred and has recommended the -- the SENDOUT model 24 results. Would that be fair? MR. NEIL KOSTICK: I think the 25

portfolio that we've put together and is before this 1 Board was based on information derived from all 2 sources. That includes Centra's model results, the ICF 3 model results, and all the information that we have as 4 5 participants in the natural gas marketplace in North 6 America. All the information was used to help inform our decision on the portfolio that we have brought 7 before this Board. 8 9 MR. BOB PETERS: All of those things 10 you mentioned, Mr. Kostick, were factors considered in 11 the formulation of Centra's judgment. Would that be 12 correct? 13 MR. NEIL KOSTICK: Yes. And we've taken into account a number of factors that are not 14 15 specifically evaluated in a modelling process, such as 16 reliability and security of supply, and access to 17 liquid supply, and renewal rights, things of that 18 nature. 19 MR. BOB PETERS: Some of those that I've called "subjective determinations" had to go into 20 Centra's ultimate recommendation? 21 22 MR. NEIL KOSTICK: A number of factors 23 were considered that went beyond simply the model 24 results or the numerical results found in the model. 25 All right. Dealing MR. BOB PETERS:

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with the first analysis result from ICF found on page 1 80 of the ICF -- sorry, page 80 of the book of 2 documents, ICF has concurred with Centra that Option A, 3 which they disclose as ANR storage, is a slightly 4 better value than Option B, correct? 5 6 MR. NEIL KOSTICK: Yes, that's correct. 7 MR. BOB PETERS: And it's 1 percent -the difference between the two (2) is a 1 percent 8 9 difference in the average supply portfolio costs? 10 MR. NEIL KOSTICK: Yes, that's what the 11 results indicate. 12 MR. BOB PETERS: And would it be fair 13 to say that IC -- did ICF see Centra's results before 14 it gave you these, or did Centra see ICF's results 15 before it did its SENDOUT modelling? 16 MR. NEIL KOSTICK: I believe the 17 modelling was conduc -- was conducted simultaneously. 18 But we would have gotten our model results and then 19 ultimately seen the ICF results. I honestly can't 20 remember whe -- whether we saw one (1) versus the other 21 first, or whether ICF saw our results or Centra saw 22 ICF's results first. I -- I can't specifically 23 remember. 24 MR. BOB PETERS: Would you co -- does 25 Centra interpret ICF's analysis results to essentially

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boil down to Option A is similar to Option B for 1 reliability and security of supply, so pick Option A as 2 it's slightly less expensive? 3 4 MR. NEIL KOSTICK: The ICF analysis 5 didn't comment on matters related to reliability and 6 security of supply. It was an analysis conducted similar to our SENDOUT model analysis, which was an 7 analysis based on minimization of total portfolio 8 9 costs. 10 MR. BOB PETERS: But ICF didn't raise any red flags as to any of your other proponents, 'B', 11 12 'C', or 'D', as being unreliable or having insecure 13 supply? 14 MR. NEIL KOSTICK: No, they didn't. 15 MR. BOB PETERS: One (1) of the 16 analysis results found on the next page from ICF, their 17 second one, was that it dealt with higher 18 deliverability of storage. Do you recall that? 19 MR. NEIL KOSTICK: Yes, I do. 20 MR. BOB PETERS: And ICF suggests to 21 Centra that there's an economic benefit for higher 22 deliverability. Correct? 23 MR. NEIL KOSTICK: That's what they 24 have indicated in their report. 25 MR. BOB PETERS: And what they're

1 saying to Centra is, Design your deliverability so you 2 can withdraw everything from storage in fifty (50) 3 days, and that will be of a better economic value for 4 you than if you took sixty (60), or seventy (70), or 5 seventy-one (71) days.

6 MR. NEIL KOSTICK: I don't think that's exactly what they're saying. I think that they've 7 indicated that if you assume you would operate your 8 9 storage in such a manner that you would want to take advantage of daily price volatility with respect to 10 buying and selling natural gas on the day. Then you 11 12 might want to consider higher deliverability storage 13 that could allow you to, relative to your storage 14 capacity, draw down your storage quickly and re-inject 15 quickly.

16 I -- I believe they noted that that 17 benefit would apply, particularly in the manner that 18 they conducted the modelling, in which their modelling 19 assumes perfect foresight of daily gas prices. So their modelling included daily -- variability and 20 21 volatility in daily gas prices, and the model has 22 perfect foresight of those daily price differences in 23 order to take advantage of the higher deliverability 24 storage.

25

Their report acknowledges that if you

1 don't have perfect foresight, then you might not be 2 able to take quite as much advantage of that as the 3 model does. And as such, they qualify the very small 4 economic benefit associated with fifty (50) day 5 storage, in comparison to sixty (60) or seventy (70) 6 day storage.

7 MR. BOB PETERS: And perfect foresight 8 is a flaw in the ICF model because Centra, in doing 9 SENDOUT, removed por -- perfect foresight as best it 10 could?

11 MR. NEIL KOSTICK: I would not 12 characterize it as a flaw in their report. It is 13 simply -- or in the analysis, it's simply a different 14 approach that was taken. And, quite frankly, with the approach being slightly different than the approach 15 16 that Centra took to the modelling, it's actually beneficial in that it shows that even under slightly 17 18 different assumptions and slightly different modelling 19 approaches that the results that we achieved in our 20 model, and that ICF achieved in their model, are 21 directionally similar on the key factors. 22 MR. BOB PETERS: But ICF, as Mr. 23 Sanderson had told the Board -- and using his words, it 24 could take advantage of arbitrage opportunities as to 25 knowing that -- when to buy and where to buy, because

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it had those parameters built into the model in advance 1 of the date it would need to purchase them. 2 3 MR. NEIL KOSTICK: I don't recall the 4 specific testimony of Mr. Sanderson in that regard, but 5 I'll accept that. 6 MR. BOB PETERS: Well, what you're 7 telling the Board is, in terms of the deliverability, ICF's model had perfect foresight, and that is 8 9 something that Centra was not able to duplicate. 10 MR. NEIL KOSTICK: No local distribution company can replicate the perfect 11 12 foresight of a model, either with respect to the price 13 inputs in the model, or with respect to daily weather 14 and corresponding load requirements that need to be 15 served. 16 MR. BOB PETERS: And in the SENDOUT model that Centra used, Centra took the seasonal 17 18 average prices to avoid an issue with perfect 19 foresight? 20 MR. NEIL KOSTICK: That's correct. In 21 order to avoid having the model make discreet decisions 22 on short-term bases, such as daily or monthly changes 23 in prices, we used seasonal average prices to minimize the effect of perfect foresight, although we could not 24 25 eliminate the fact that the model has perfect foresight

of weather and the exact load that it needs to serve 1 every single day. 2 3 MR. BOB PETERS: When ICF gave its third conclusion, it was simply indicating to Centra 4 5 that the optimum storage capacity is dependent on the 6 weather as well as the deliverability requirements. Would that be fair? 7 8 MR. NEIL KOSTICK: I believe that's 9 fair. 10 MR. BOB PETERS: Those are two (2) parameters that Centra knew going into its portfolio 11 12 analysis that would be very large factors in coming up 13 with what would be an optimum portfolio? 14 MR. NEIL KOSTICK: I'm sorry, just to -15 - to step back for a second. The two (2) factors, just to clarify, are --16 17 MR. BOB PETERS: We're dealing with 18 weather as well as the deliverability requirements. 19 MR. NEIL KOSTICK: Sure, absolutely. 20 MR. BOB PETERS: And the weather is an 21 unknown, and so Centra, you've told the Board, used 22 twenty (20) years of weather data. Correct? In its SENDOUT model? 23 24 MR. NEIL KOSTICK: Yes, that's correct. 25 MR. BOB PETERS: And ICF, I think, used

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330 even longer. Didn't they use thirty-four (34) years of 1 weather data? 2 3 MR. NEIL KOSTICK: I believe they used 4 thirty-four (34) years of weather, yes. 5 MR. BOB PETERS: Did that data come 6 from Centra? 7 MR. NEIL KOSTICK: Subject to check, I believe ICF has its own weather data for regions across 8 North America. So I believe they use their own weather 9 data, although I would have to check to verify that. 10 11 MR. BOB PETERS: No, that's fine. And 12 so if Centra can tell ICF what percent of all weather 13 scenarios are to be met by the portfolio as well as 14 what is Centra's desired deliverability, then the ICF 15 model can provide a recommendation as to the storage volume? 16 17 MR. NEIL KOSTICK: Given certain 18 assumptions or requests that could potentially be 19 provided to ICF, they could come up with a recommendation based on model results that would 20 indicate what the lowest-cost portfolio would be, 21 22 subject to whatever you're asking the portfolio to 23 include, in terms of deliverability and so forth. 24 MR. BOB PETERS: In ICF's model they 25 would get thirty-four (34) separate optimized

portfolios for each deliverability level that was 1 2 selected? 3 MR. NEIL KOSTICK: Subject to check, I believe they would get at least that number. I believe 4 5 they factored in some other matters as well, as far as 6 different price volatility. So you may have even had more results than that, but that would be subject to 7 check. 8 9 MR. BOB PETERS: When we turn to Tab 10 20, page 82 of the book of documents, we see a couple 11 of charts that come from ICF. And then in particular, 12 Table 2 is the one I wanted to look at. 13 It provides a range of optimized storage 14 capacity based on weather and price variations, 15 correct? 16 MR. NEIL KOSTICK: Yes, that's correct. 17 MR. BOB PETERS: And just so the Board 18 has an understanding as to the interpretation of this 19 chart, Mr. Kostick, the table breaks down different 20 storage day deliverabilities for both option A and 21 option B? 22 MR. NEIL KOSTICK: Yes, that's correct. 23 MR. BOB PETERS: And then it -- it 24 provides an optimum storage capacity, in petajoules, in 25 the chart based on the -- on the deliverability that is

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sought by Centra? 1 2 MR. NEIL KOSTICK: It does not actually provide -- I guess they've labelled the table as 3 "Optimum Working Gas Storage Capacity," but what 4 5 they've really done here is provided averages, 6 maximums, minimums, a median, and a 75th percentile 7 storage capacity. So I guess it depends on how you define "optimal". 8 9 But the reality is they, as we discussed 10 yesterday, they determined a discrete portfolio for every single weather and price scenario. So in effect, 11 12 there were multiple -- in effect, there were multiple 13 optimum storage capacities. And in this case in order to, I guess, 14 try to wrap your hands around it, they provided what 15 the average was, what the maximum, median, and 75th 16 percentile storage capacities would be. So it doesn't 17 18 actually -- despite the labelling of the table --19 indicate a single optimum storage capacity. 20 MR. BOB PETERS: If Centra wanted ICF 21 to give a recommendation as to a seventy (70) day 22 storage capacity, and that storage capacity was to be an optimum capacity in size, 75 percent of the weather 23 24 that was incurred, then ICF is recommending 18.09 25 petajoules, Mr. Kostick?

333 MR. NEIL KOSTICK: I believe the 18.09 1 petajoules represents the storage capacity selected in 2 -- or, the storage capacity would be 18.09 petajoules 3 or less in 75 percent of the cases that they ran. 4 5 MR. BOB PETERS: And the 75 percent of 6 the cases were weather-related cases? 7 MR. NEIL KOSTICK: Weather and price 8 cases. 9 MR. BOB PETERS: And from this data that ICF has provided to Centra, where on this table 10 does Centra gain comfort that the portfolio that it 11 12 suggests is optimal coincides with ICF's recommendation 13 of optimal portfolio? 14 MR. NEIL KOSTICK: What ICF has 15 presented is a range of results. And we can see, 16 generally speaking, for the ANR storage results, if it's -- whether it's a fifty (50) day service or a 17 18 seventy (70) day service, the average of the storage 19 capacity results were in the 15.6 to 17 petajoule 20 range. From our perspective, that's not a dramatic 21 difference from the 15.5 petajoules that we've 22 selected. 23 The median could also be looked at. Ιt 24 ranges anywhere from 13 to 15 petajoules. Again, not 25 dramatically different than what we've selected. And

334 in terms of if you want to cover off 75 percent of the 1 weather scenarios that could be faced, the results are 2 saying in the 18 to 19 petajoule range you would want 3 to have as your storage capacity. 4 5 So there isn't a single answer in the 6 ICF results. But in total, it's not suggesting 5 petajoules and it's not suggesting 30 petajoules. It's 7 somewhere within a couple of petajoules of what we've 8 9 selected, the 15 1/2 petajoules. So we take some 10 comfort in that regard. 11 MR. BOB PETERS: Does Centra interpret 12 the ICF results in Table 2, Mr. Kostick, to mean that the -- to -- to cover off for the extremes of weather 13 14 as well as the price, the portfolio should be 29.28 15 petajoules for the seventy (70) day storage? 16 MR. NEIL KOSTICK: No, we don't. We 17 don't take that interpretation at all. As we've talked 18 about, the ICF analysis for the coldest weather 19 scenario, we'll select a portfolio for just that one 20 (1) coldest annual weather scenario. In which case, it 21 shows a very high storage capacity in the range of 22 almost 30 petajoules. 23 In Centra's case, the model selected a 24 single best fit portfolio across twenty (20) years of 25 weather. And that would include cold years and warm

years. And if it only -- if our modelling only 1 selected storage capacity based on the coldest year, it 2 would probably tell us to take more storage. But we 3 don't necessarily design the portfolio on the 4 5 assumption that every year is going to be an extreme 6 cold year. Our modelling exercise was intended to determine a best fit portfolio across the -- the range 7 of weather that we would likely face in Manitoba. 8 9 MR. BOB PETERS: Recognizing that what 10 your portfolio -- what Centra's portfolio doesn't cover, you'll have to scramble or find other solutions 11 12 for? 13 MR. NEIL KOSTICK: No, that's not the 14 case. The portfolio that we've put forward to this 15 Board covers off all weather scenarios. Even though it 16 doesn't select a portfolio to be the perfect portfolio for the coldest weather, it's still a portfolio that 17 18 has to serve all weather scenarios. 19 So in the coldest weather the portfolio 20 will serve our market and in the warmest weather our 21 portfolio will serve the market. And it's a portfolio 22 that is designed to minimize total portfolio costs over 23 twenty (20) different weather scenarios. It's the 24 best-fit portfolio. 25 MR. BOB PETERS: Didn't Mr. Sanderson

tell the Board that under the 15.5 petajoules, that 1 would not have been the -- or that was not sufficient 2 capacity in the coldest year on record, so the company 3 had to make alternate arrangements for what the -- for 4 5 what the actual portfolio didn't accommodate? 6 MR. BRENT SANDERSON: I don't know if that's an accurate characterization of what I -- what I 7 stated yesterday, Mr. Peters. I didn't state that our 8 9 storage -- our portfolio of storage assets was 10 inadequate in 1996. At all times, our storage assets are just one (1) element of a broader portfolio, and 11 12 they work in concert with one another. 13 And as I stated in that -- that day in 14 1996, where temperatures averaged minus 38 degrees 15 Celsius throughout the day, the load was met with our 16 portfolio of assets. So it's a matter of tradeoffs 17 between incurring fixed demand costs each and every 18 year and pla -- and using a planning assumption that 19 you'll achieve your design year each and every year, 20 versus shedding some of those ongoing fixed demand 21 costs each and every year with the knowledge that some 22 variable costs may be higher in those unusual years 23 versus extraordinarily cold. 24 But as Mr. Kostick stated, over multiple 25 weather scenarios, on average, your net costs will be

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337 less on the whole -- the whole portfolio taken together 1 as a sum total whole. 2 3 MR. BOB PETERS: Thank you, Mr. 4 Sanderson. And I was not wanting to put words in your 5 mouth, but I understood from your evidence of yesterday 6 that the -- the 15.5 petajoules of storage was completely emptied back in 1996. Was that correct? 7 8 MR. BRENT SANDERSON: For all intents 9 and purposes, yes. 10 MR. BOB PETERS: And I thought you 11 indicated that Centra could have used more storage in 12 that year? 13 MR. BRENT SANDERSON: If cost wasn't a 14 consideration. MR. BOB PETERS: And instead of --15 16 instead of cost being a -- if cost wasn't a limiting 17 factor, your -- your answer was meant then that Centra 18 would be wise to have additional storage for those 19 types of extreme weathers? 20 MR. BRENT SANDERSON: No, I don't think 21 that's what I said. I just said in that particular 22 circumstance, if cost wasn't a consideration to Centra, 23 sure -- if I had no other qualifying considerations, 24 I'm sure I would -- we would have loved to have had 25 more storage. But, as I said, we manage on a total

1 portfolio basis all of the assets in concert with one 2 another.

3 And our portfolio has served us well. And we have had adequate storage, in our opinion, over 4 5 the twenty (20) years of the existing portfolio. And 6 it's our position that the proposed portfolio will feature adequate storage to serve our market's 7 requirements over the coming proposed term of that 8 9 portfolio. 10 MR. BOB PETERS: So in 1996, when there 11 wasn't additional gas in storage for that cold day, Mr. 12 Sanderson, Centra had to make alternate arrangements to 13 provide that gas, would that be correct? 14 MS. LORI STEWART: Mr. Peters, I -- I 15 think we should clarify a couple of issues right now. I -- I don't think we would want this Board to be 16 17 comparing 15.5 petajoules of storage with one (1) set 18 of attendant transportation and other arrangements, 19 with what we're proposing today. The capacities happen to be the same, but they are different portfolios and 20 21 they are not readily comparable. 22

The other thing that it's important to distinguish between is serving a peak day and serving a peak season. So on the firm peak design day that we were discussing with Mr. Peters, during any day of the

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winter we have a daily deliverability constraint. Ιt 1 doesn't matter whether the temperature in Winnipeg is 2 minus 20 or minus 38, we have a contractual 3 deliverability constraint. 4 5 And what we do in those circumstances is 6 for those five (5), ten (10), fifteen (15) days out of the winter where we have the potential to range beyond 7 our contractual deliverability constraint, we put in 8 9 place and we pre-contract, such that we are assured 10 that we have firm peaking delivered services arranged 11 for the market. And I described yesterday how they 12 typically take the form of a call option, such that we 13 don't incur demand charges associated with them. 14 Rather, we pay as we go in the event that we have the 15 need to call on them. 16 So I think we need to ensure that the 17 record is clear as it relates to are we discussing a 18 peak seasonal requirement or a peak daily requirement. 19 And Mr. Sanderson's comments were associated with the seasonal requirement in '95/'96. And that seasonal 20 requirement in -- in effect ended us with a -- a 21 22 storage ending inventory balance of zero.

23 MR. BRENT SANDERSON: Just to add one 24 (1) further item of clarification. There's no direct 25 correlation between our experience on February 1st,

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340 '96, necessarily, and the end of season complete draw-1 down of storage. We could have just as easily had a 2 year where we had February 1, 1996, and ended that same 3 year, depending on what the subsequent weather was 4 after February 1st, and ended with a material carry 5 over in the storage balance as well. 6 7 MR. BOB PETERS: Yes, thank you both for the -- for your clarifications. The fourth 8 9 conclusion reached by ICF was amounting to the 10 conclusion that Centra's best value for gas purchases 11 is still from Western Canada. Is that correct, Mr. 12 Kostick? 13 MR. NEIL KOSTICK: Yes, that's correct. 14 MR. BOB PETERS: And -- and then ship 15 it to Manitoba? 16 MR. NEIL KOSTICK: Yes. 17 MR. BOB PETERS: And just before the 18 morning recess there was discussions with the Board 19 that even with TCPL's tolls, and the tolling issues, 20 that Western Canada gas still appears to be the 21 preferred or the best option for Manitoba? MR. NEIL KOSTICK: 22 I believe the ICF 23 report indicates that for the majority of natural gas 24 that serves the Manitoba market, that Western Canadian supply is still economic, relative to other options. 25

1 MR. BOB PETERS: Centra agrees with that conclusion? 2 3 MR. NEIL KOSTICK: Yes. And as our model -- model results indicate, that were filed in Tab 4 5 7 of the application, we ex -- at least based on the 6 model results, our model results suggest that about 90 percent of annual purchases would be Western Canadian 7 versus 10 percent from other sources. 8 9 MR. BOB PETERS: Mr. Kostick and Ms. 10 Stewart, in the time maybe left before the lunch hour if you could turn back to Tab 5 of the book of 11 12 documents and let's look at the proposed portfolio on 13 the -- on the map. And at Tab 5 we're looking at the 14 summer operations. On page 24 of the book of documents 15 is the current one, and on page 25 is what is proposed. 16 Have I got that correct? 17 MS. LORI STEWART: Yes, that's correct. 18 MR. BOB PETERS: And, Ms. Stewart, the 19 proposed summer operations in terms of Empress to 20 Manitoba on TCPL, and the surplus going to Emerson, and 21 then along Great Lakes Gas Transmission to Crystal 22 Falls, around Lake Michigan, to storage on the proposed 23 route, that's the same as it was -- in terms of routing 24 as it was on the existing situation? 25 MS. LORI STEWART: For storage refill

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1 purposes, yes. 2 MR. BOB PETERS: And what is new on the summer operations is that the southeast leg -- the 3 4 Louisiana leg and the southwest Oklahoma leg are 5 removed? 6 MS. LORI STEWART: Yes, that's correct. 7 MR. BOB PETERS: And one (1) of the additions that has been mentioned is that the Joliet to 8 9 storage capacity is a -- is a new addition to the portfolio? 10 11 MS. LORI STEWART: That's correct. 12 MR. BOB PETERS: And would I be correct 13 in recalling Mr. Stauft as indicating that it raises a 14 question as to whether or not this ANR -- sorry, this 15 Joliet to ANR storage is needed? That was one (1) of 16 his issues? 17 MR. NEIL KOSTICK: I believe that's 18 correct that Mr. Stauft did raise that issue, and I 19 believe it was primarily on the basis of an assumption 20 that on a normal year basis that Centra would typically 21 withdraw approximately 10 petajoules of gas from storage. Whereas in our -- I believe in our IRs and 22 23 rebuttal evidence we clarified that we anticipate 24 pulling harder on storage essentially. In which case, 25 on a normal expected year basis for normal weather,

343 that that transportation would be utilized on a -- on a 1 forecast basis under normal weather. 2 3 MR. BOB PETERS: And the cost that --4 just while we have it there, the AN -- sorry, the 5 Joliet Hub to ANR storage, that was quantified I 6 believe on Tab 13 of the book of documents, that particular leg, if we looked it up, was about a hundred 7 and ninety-two thousand dollars (\$192,000) a year? 8 9 MR. NEIL KOSTICK: Yes, that's correct. 10 MR. BOB PETERS: And one of the changes as well, although perhaps best seen in the winter, Ms. 11 12 Stewart, is that the storage has been divided into 13 seasonal storage, 8.1 petajoules, and there's also 7.4 14 petajoules of annual storage? 15 MS. LORI STEWART: Yes, that's correct. 16 MR. BOB PETERS: And the distinction of 17 note is that the annual storage of 7.4 petajoules can 18 be utilized for infill during the heating season or 19 during the winter season? 20 21 (BRIEF PAUSE) 22 23 MS. LORI STEWART: As described in my direct evidence, Mr. Peters, what the portion of annual 24 25 storage allows us to do is to, in essence, empty that

344 portion of storage to the tune of 3.1 petajoules, and 1 then permits us to refill within that same winter 2 heating season if indeed storage is being drawn down. 3 4 MR. BOB PETERS: The reason you 5 mentioned the -- the draw down to 3.1 petajoules, is that a contractual limitation, or is that when the 6 ratchets kick in? 7 8 MS. LORI STEWART: That is the contractual limitation driven by the cycling ratio of 9 10 one point four two (1.42). 11 12 (BRIEF PAUSE) 13 14 MR. BOB PETERS: In addition, Ms. 15 Stewart, to -- well, let's turn to the -- let's turn to 16 the winter page at Tab 6 of the book of documents, page 27 and 28 particularly. The -- the maps are the same 17 18 in terms of being they're supply provided direct to 19 load from western Canada, as well as the back-haul from 20 storage, Ms. Stewart? 21 MS. LORI STEWART: Yes, that's correct. 22 MR. BOB PETERS: And when we look down 23 to the re-injection in winter on the annual storage 24 component that you were just talking about, that annual 25 injection into storage in winter, that can be

accommodated from the Joliet storage component? 1 MS. LORI STEWART: Yes, that's correct. 2 3 MR. BOB PETERS: Could it also be 4 accommodated by a direct purchase at the ANR storage 5 site? 6 MS. LORI STEWART: Yes, potentially, recognizing the discussion that we've had earlier today 7 8 on the record about the liquidity concerns at the ANR 9 injection point. 10 MR. BOB PETERS: Centra would simply 11 index any purchases at ANR to the MichCon Hub and 12 compare them to what it would be buying at the Joliet 13 Hub, would it not? 14 MS. LORI STEWART: Yes, recognizing 15 that at the ANR injection point we are not able to view 16 the pricing on an electronic data platform, so we would need to go to the market to assess what value would be 17 18 associated with the gas at that point. 19 MR. BOB PETERS: I'm not asking 20 necessarily how you practically do it, Ms. Stewart, but 21 you could have the ANR -- sorry, you could have the --22 the Joliet Hub data on your screen while you're on the 23 phone to some supplier looking for gas at the -- at the 24 ANR site. Is that how it'd work? 25 MS. LORI STEWART: Yes, that's correct.

346 1 MR. BOB PETERS: A bit more cumbersome than electronically, but still an option? 2 3 MS. LORI STEWART: An -- an option, 4 yes, with the proviso that we typically would not seek 5 to source just one (1) price quote. We're much more 6 comfortable in a situation where we have at least three (3) quotes on the table from counter-parties. And that 7 speaks to the challenges in terms of the price 8 9 transparency or price discovery at that point. 10 11 (BRIEF PAUSE) 12 13 MR. BOB PETERS: Ms. Stewart, in terms 14 of the TransCanada pipeline firm transportation, Centra 15 has over the last five (5) years been reducing its firm 16 transportation commitment on that pipeline. Is that 17 correct? 18 MS. LORI STEWART: Yes, that's correct. 19 MR. BOB PETERS: And do you recall back 20 in '06/'07, Centra was contracted for about 200,000 21 gigajoules a day? 22 MS. LORI STEWART: Yes, that's correct. 23 MR. BOB PETERS: And then Centra reduced that, I think the following year, down to 160 24 25 gigajoules a day?

1 MS. LORI STEWART: That's correct. 2 MR. BOB PETERS: And then a further reduction the following year down to 135 gigajoules a 3 4 day? 5 MS. LORI STEWART: That's correct. 6 MR. BOB PETERS: And there was also, I 7 quess, some -- in '11 and '12 we've seen the numbers, and they were, I think, 110 gigajoules a day, if I have 8 9 that right? 10 MS. LORI STEWART: That's correct. 11 MR. BOB PETERS: And for next year, or the -- the upcoming gas year, a further 20 percent 12 decline down to approximately 90,000 gigajoules a day? 13 14 MS. LORI STEWART: That would be a 15 20,000 GJ decline as opposed to a 20 percent decline. 16 However, I -- I really would like the Board to consider that to be an interim planning step that we took. 17 We 18 are in that planning cycle at present. And we have not 19 concluded what our ultimate contract demand levels will be effective November the 1st. 20 21 MR. BOB PETERS: And should the Board 22 take from your answer, Ms. Stewart, that, as we maybe 23 discussed yesterday, Centra can still acquire additional transportation, firm transportation from 24 25 TCPL, simply because you know they have excess

capacity? 1 2 MS. LORI STEWART: Yes, that's correct. 3 MR. BOB PETERS: Does the indication of 4 reducing the firm transportation on TCPL suggest that 5 Centra is planning to make up that reduced capacity by 6 taking more gas from storage arrangements than from Western Canada? 7 MS. LORI STEWART: Yes. Mr. Kostick 8 9 has described how with the proposed portfolio we would be pulling harder on storage in the proposed scenario 10 11 relative to what we do today. 12 MR. BOB PETERS: But by pulling harder 13 on storage and reducing, at least on an interim basis, 14 the TransCanada firm transportation capability, does 15 that impact Centra's ability to fill storage with what 16 ICF says is the cheaper Western Canadian supplied gas? 17 18 (BRIEF PAUSE) 19 20 MS. LORI STEWART: I'm sorry, Mr. 21 Peters, could you repeat your question. 22 MR. BOB PETERS: I was trying to tie 23 together some of your last answers, Ms. Stewart, for 24 the Board. And with the apparent planned reduction on 25 firm transportation on TransCanada pipeline I think you

349 agreed with me that that signals that Centra can make 1 up some of that reduced capacity by I believe your 2 words were "drawing harder on storage"? 3 MS. LORI STEWART: That's correct. 4 5 MR. BOB PETERS: And does the re --6 does reduced contracting capacity on TransCanada pipeline also impact Centra's ability to fill storage 7 with Western Canadian-sourced gas? 8 9 MS. LORI STEWART: No, it -- it doesn't. Our storage and transportation service 10 contractual limit for storage fill is 54,000 GJs per 11 12 day, and that is not proposed to change from today. So 13 we -- we can flow fifty-four thousand (54,000) a day 14 into storage for the duration of the summer season for 15 storage refill purposes. 16 17 (BRIEF PAUSE) 18 19 MR. BOB PETERS: Maybe you've done the 20 math, Ms. Stewart, in answering that question. But out 21 of the ninety thousand (90,000) that's coming from 22 Western Canada on the firm transportation you still 23 have to meet the Manitoba delivery area's load even in 24 the summertime? 25 MS. LORI STEWART: Yes, that's correct.

1 MR. BOB PETERS: Even in the shoulder 2 months? 3 MS. LORI STEWART: Yes, that's correct. MR. BOB PETERS: And is there still 4 5 sufficient volumes flowing past Winnipeg then to allow 6 the Western Canadian component of storage to still be 7 approximately what it has in the past, the 10 petajoules? 8 9 10 (BRIEF PAUSE) 11 12 MS. LORI STEWART: I think we have to 13 recognize that how we're serving the load is made up of 14 not just our TransCanada firm transportation capacity. 15 So that is one (1) means by which we're bringing natural gas to our load. But, in addition, we also are 16 relying on primary gas transported by others. Or in 17 18 various places in the application, at one (1) point it was referred to as "delivered services" as distinct 19 from "peaking delivered services." 20 21 22 (BRIEF PAUSE) 23 24 MR. BOB PETERS: Ms. Stewart, does that 25 answer confirm that Centra can still flow 10 petajoules

351 of Western Canadian-sourced gas into storage under the 1 proposed new arrangements with TransCanada pipeline, as 2 well as the existing portfol -- or the proposed 3 4 portfolio? 5 MS. LORI STEWART: Yes, it does. 6 MR. BOB PETERS: Can it flow more than 7 10 petajoules into storage from Western Canadian gas, Ms. Stewart? 8 9 MS. LORI STEWART: The -- the constraint in terms of how much Western Canadian supply 10 we can -- we can flow into storage, is the contractual 11 12 limit associated with our storage and transportation 13 service. 14 And then as that gas starts to move down the pipeline on Great Lakes and onto ANR, those are the 15 contractual limits in -- that will define how much 16 17 western Canadian gas can move into storage. And I've 18 described that our contractual limit on our storage and 19 transportation service contract is 54,000 GJs a day 20 today. And it is proposed to remain at 54,000 GJs a 21 day for our storage refill season. 22 MR. BOB PETERS: Mr. Chairman, in light 23 of the hour, I'll just review my notes during the lunch break if I could, but I think that concludes that 24 25 topic. And I'll move on and cover a few more topics

after lunch this afternoon. 1 THE CHAIRPERSON: Mr. Lafond has a 2 question. 3 MR. RAYMOND LAFOND: Simply Tab 8, page 4 5 36, versus Tab 22, page 88 of the book of documents 6 there. My question is, we've got in the blue section in the bottom, TCPL a hundred and thirty-seven (137) 7 units versus contract demand renewed of 90,000 8 9 gigajoules per day. 10 What's the relationship there? Or can 11 you explain to me what -- what the issue is here? 12 MS. LORI STEWART: I -- I don't think 13 there is an issue. I'm not sure if meter -- Mr. Peters thinks there is one (1), but I -- I can explain the 14 15 difference. 16 MR. RAYMOND LAFOND: Please. 17 MS. LORI STEWART: The 137.2 swath in 18 the blue on page 36 represents our TransCanada firm 19 contract demand, associated with the winter of 20 2010/2011. And typically, we're always referring to 21 the swath of capacity that brings gas to the Manitoba 22 delivery area. We have a small swath of capacity also 23 contracted to the southern Saskatchewan delivery area 24 that fill -- feeds the parkland area of the province. 25 But, generally speaking, for simplification purposes, I

confirmed for Mr. Peters that out of that 137.2, a 1 hundred and thirty-five thousand (135,000) a day of gas 2 was trans -- was contracted for TransCanada for firm 3 service in the winter of 2010/'11. 4 5 Now let's move forward a year and we're 6 in the winter -- the current gas year, and our contract 7 demand on TransCanada mainline currently today to the MDA, is 110,000 GJs per day. So we dropped an 8 9 additional twenty-five thousand (25,000) a day of firm service on the Trans Canada mainline. 10 11 Now going forward to the upcoming winter of 2012/'13, which commences on November the 1st, we 12 13 have a contracting deadline of April the 30th, for that particular firm contract. And we renewed at the level 14 15 of 90,000 GJs per day, so we dropped an additional 16 twenty thousand (20,000) of firm service on the TransCanada mainline. And I'm simply advising the 17 Board that that was a preliminary step that we took, 18 19 but we are currently in the planning cycle for the gas 20 year that commences November the 1st. 21 So I'm saying please don't hold -- hold 22 me to that. I may go and recontract 20,000 a day.

24 And what I'm assuring the Board of is 25 that if indeed we believe that it's in the best

We're in that planning cycle right now.

23

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354 interest of ratepayers to resecure some firm capacity 1 on the TransCanada mainline, we have no -- there is no 2 doubt then that I can obtain that in advance of 3 November the 1st. 4 5 There is -- there is oodles of empty 6 capacity on that pipeline right now. 7 MR. RAYMOND LAFOND: Thank you. 8 THE CHAIRPERSON: Let's recess now and 9 resume proceedings at 1:30. 10 11 --- Upon recessing at 12:10 p.m. 12 --- Upon resuming at 1:31 p.m. 13 14 THE CHAIRPERSON: Welcome back, 15 everyone. Mr. Peters...? 16 MR. BOB PETERS: Yes, thank you, Mr. 17 Chairman. 18 19 CONTINUED BY MR. BOB PETERS: 20 MR. BOB PETERS: Witness panel, I'd 21 like you to please turn with me to Tab 13 of the book of documents that has been distributed as PUB Exhibit 22 23 7, specifically page 48 for those following on the PDF 24 copy. Oh, I'm sorry, Mr. Kostick -- oh, he is here. 25

355 1 (BRIEF PAUSE) 2 3 MR. BOB PETERS: Mr. Kostick, I 4 appreciate you have a better filing system than I may. 5 I was drawing the witness panel's attention to Tab 13 6 of the Board counsel book of documents, looking at a document that is from Tab 8, attachment 5 of Centra's 7 initial application. 8 9 Please let me know when you have that at 10 hand. 11 MR. NEIL KOSTICK: Yes, I see that. 12 Thank you. 13 MR. BOB PETERS: Mr. Kostick and others, this chart at Tab 13 of Board counsel's book of 14 15 documents is the numerical representation of the 16 financial impacts of the current US storage and 17 transportation portfolio compared to the proposed US 18 storage and transportation portfolio. 19 Is that correct? 20 MR. NEIL KOSTICK: Yes, it is. 21 MR. BOB PETERS: And when the Board 22 looks at this information, there will be on the 23 predominantly -- well, the ver -- the -- the first 24 column, called "Tariff Rate," is the tariff rate that 25 is in effect as approved by the Federal Energy

Regulatory Commission in the United States for the 1 2 service offering? MR. NEIL KOSTICK: Yes, that's correct. 3 4 MR. BOB PETERS: And that tariff rate, 5 Mr. Kostick, applies not only to the current portfolio, 6 but the same rate applies going forward to the proposed 7 portfolio? MR. NEIL KOSTICK: 8 Yes, that's unless 9 ANR has a FERC -- or ANR and/or Great Lakes have a rate 10 case before FERC, at which time the FERC-regulated tariff rates could change. 11 12 MR. BOB PETERS: Are there any cases 13 before FERC from ANR and Great Lakes on these tolls? 14 MR. NEIL KOSTICK: I believe Great 15 Lakes is scheduled to have a rate case in 2013. And I 16 am not aware of any pending rate case for ANR. 17 MR. BOB PETERS: Just on that point, 18 Mr. Kostick, if FERC was to approve an increased rate 19 on any of the ANR or Great Lakes gas transmission, that 20 would have no impact on Centra's rates for the next 21 seven (7) years? 22 MR. NEIL KOSTICK: That's correct. 23 MR. BOB PETERS: If FERC was to reduce 24 an ANR or a Great Lakes rate below the level that's 25 been negotiated in the proposed portfolio, then Centra

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would get the benefit of paying the reduced new rate 1 2 set by FERC? 3 MR. NEIL KOSTICK: Yes, that's correct. 4 MR. BOB PETERS: If FERC approved a 5 minimum tariff rate that is above the negotiated rate 6 in the proposed portfolio, does Centra face risk or exposure to increase the costs and the amounts payable 7 to ANR or Great Lakes gas transmission if the minimum 8 9 tariff rate exceeds the negotiated rate? 10 MR. NEIL KOSTICK: I think I would have 11 to verify that. I -- I couldn't say with certainty 12 what would happen if a minium rate were increased. We 13 could -- we could check on that. We could inquire with 14 ANR and Great Lakes, but I'm not certain as to that 15 answer. 16 MR. BOB PETERS: Well, then I'd ask you through your counsel if you could undertake to advise 17 18 the Board as to whether or not, in the event that the 19 minimum FERC rate is increased to a level that exceeds 20 the negotiated rate in the proposed portfolio, whether 21 Centra would have to pay additional costs to what it's 22 asking the Board to approve in this rate filing. 23 Is that acceptable, sir? 24 MR. NEIL KOSTICK: Yes, it is. 25 MR. BOB PETERS: All right. Thank you

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1 for that. 2 3 --- UNDERTAKING NO. 4: Centra to indicate if, in the event that the minimum 4 5 FERC rate is increased to a level that exceeds the 6 7 negotiated rate in the 8 proposed portfolio, it 9 would pay the additional 10 costs it's asking the Board 11 to approve in this rate 12 filing 13 14 CONTINUED BY MR. BOB PETERS: 15 MR. BOB PETERS: So subject to that --16 Mr. Kostick, subject to that undertaking and the response that comes back, the number, \$14,049,344, US 17 18 dollars, represents still the request from the company 19 in terms of approval of the cost consequences of the 20 portfolio? 21 MR. NEIL KOSTICK: Yes, that is 22 correct. 23 24 (BRIEF PAUSE) 25

359 1 MR. BOB PETERS: Mr. Kostick, the -the tariff rate shown in the far left-hand column on 2 this document found on page 48 of Board counsel's book 3 of documents, the tariff rate is the maximum FERC 4 5 tariff rate. 6 Have I got that right? 7 MR. NEIL KOSTICK: Yes, it is. 8 MR. BOB PETERS: You haven't listed the 9 minimum rate anywhere? 10 MR. NEIL KOSTICK: That's correct. 11 MR. BOB PETERS: And under the current 12 portfolio, the Board can compare the tariff rate to the rate in the next column, and that'll tell the Board 13 whether or not Centra is enjoying a discount or whether 14 15 Centra is paying the full tariff rate to ANR or Great 16 Lakes. 17 MR. NEIL KOSTICK: Yes, that's correct. 18 MR. BOB PETERS: And in some cases --19 for example, perhaps line 6 is a good example -- on the storage capacity Centra is currently paying maximum 20 21 tariff? 22 MR. NEIL KOSTICK: Yes, for the storage 23 capacity. 24 MR. BOB PETERS: And likewise, line 23 25 for ANR Southeast summer, looks like you're paying

360 maximum, and likewise, line 26 for Emerson to Crystal 1 Falls on the summer forward haul transportation? 2 MR. NEIL KOSTICK: Yes, that's correct. 3 4 MR. BOB PETERS: All the rest of them 5 are discounted? 6 MR. NEIL KOSTICK: Yes. 7 MR. BOB PETERS: Do you agree with the suggestion that whether -- whether these rates are 8 discounted is a function of the market competitive --9 10 combatib -- competitiveness? 11 MR. NEIL KOSTICK: I would largely 12 agree with that. 13 MR. BOB PETERS: So it's supply and 14 demand, as somebody said earlier. It depends what 15 everybody wants and was capacity is left as to how high 16 the tolls will go? 17 MR. NEIL KOSTICK: To a large extent, 18 yes. 19 MR. BOB PETERS: And on the right side of the schedule, at Tab 13 of Board counsel's book of 20 21 documents, that contains the proposed portfolio that 22 Centra is putting before the Board, correct? 23 MR. NEIL KOSTICK: Yes. 24 MR. BOB PETERS: Is it also correct 25 that the Board will find that each and every rate that

is being charged is discounted from the maximum tariff, 1 2 at least to some extent? MR. NEIL KOSTICK: Yes, that's correct. 3 MR. BOB PETERS: And is it therefore 4 5 correct that the discount reflects, again, the market 6 in terms of the supply and demand that ANR and Great 7 Lakes had for their services in their storage capacity? 8 MR. NEIL KOSTICK: That's certainly 9 part of it. I think one also has to take into account 10 the package of services that was negotiated in aggregate. So in terms of what -- what I would call 11 good discounts on ANR services, ANR would take into 12 13 account the package of services that is being 14 negotiated, where I would expect that, given the number 15 of contracts involved in this portfolio, that over and 16 above market forces, Centra may be able to negotiate rates that are somewhat even more attractive than the 17 18 typical rates in the market. 19 That would just be my -- my general 20 sense as far as some of the factors that are at play. 21 MR. BOB PETERS: It's Centra's general 22 sense that an understanding that ANR and Great Lakes 23 may give a discount of a certain level on some service 24 and maybe make some of that back on a different 25 service?

362 1 MR. NEIL KOSTICK: Ultimately, we can't say exactly what the puts and takes were for ANR and 2 Great Lakes. I think they would be looking at a 3 package of services and looking at a total, not of 4 5 revenue. And I couldn't say exactly whether there were 6 -- whether they were making tradeoffs in terms of what they wanted to charge for certain services. 7 8 MR. BOB PETERS: And while you don't 9 know with certainty, you certainly assume in your negotiations that ANR and Great Lakes are making money 10 11 off of this transaction. 12 MR. NEIL KOSTICK: I would assume so. 13 MR. BOB PETERS: And does Centra also 14 assume there is a -- a friends and family discount included, because you've been twenty (20) years in the 15 16 relationship, or is there any -- any consideration of 17 that involved from your assumptions? 18 MR. NEIL KOSTICK: I think that we're a 19 highly-valued customer of ANR and Great Lakes. And that would undoubtedly factor into their consideration 20 21 of rates that could be charged to Centra. 22 MR. BOB PETERS: But other than that --23 and you have no idea if that's going to buy you a cup 24 of coffee or give you a deep discount on any of these 25 services?

1 MR. NEIL KOSTICK: I can't say for certain -- with certainty. 2 3 MR. BOB PETERS: If I understood Mr. 4 Stauft's evidence correctly, I think he suggested that 5 compared to the FERC maximum rates, Centra was getting 6 an approximate \$2 million discount on its storage 7 costs. Do you recall reading that? 8 MR. NEIL KOSTICK: I don't recall the 9 exact reference. We are getting, I guess, in total, the storage would be, in total, compared to what we 10 have today about \$2 million less expensive. So if 11 that's a similar reference or if that's the nature of 12 13 the reference, then I would agree with that. 14 MR. BOB PETERS: All right. I'll --15 MR. NEIL KOSTICK: Maybe just to 16 clarify, it would be a \$2 million discount relative to 17 the current storage costs. It would actually be a \$3 18 million discount relative to tariff rates. 19 MR. BOB PETERS: Thank you. I think 20 you've answered my question, Mr. Kostick. And the 21 reference I had, should it become important for you, is 22 his pre-filed evidence page 16 of 24, I think line 16. 23 But -- but you've said that relative to 24 the tariff rates, a \$3 million discount is what Centra 25 calculates approximately, has been the -- the reduction

in the -- in the portfolio going forward? 1 2 MR. NEIL KOSTICK: That is strictly on the storage costs. Centra's total discount relative to 3 the maximum rate for the entire portfolio is about \$17 4 million. So these services, at maximum tariff rate, 5 6 would be about \$31 million. Centra's rate will equate to \$14 million. 7 Mr. Kostick, would 8 MR. BOB PETERS: 9 Centra agree that comparing what you have in hand today with ANR and Great Lakes, in terms of costs, to what 10 you are prospectively looking for in the future, is not 11 12 the valid comparison that this Board should consider? 13 But rather, the Board should consider not what you 14 currently have, but what were the options available going forward, and which option Centra selected? 15 16 MR. NEIL KOSTICK: I think it all has 17 to be considered. At the end of the day, we compared 18 the proposed ANR and Great Lakes portfolio to all of 19 the other options. And it wasn't simply a comparison 20 to what we're -- what we currently have with ANR and 21 Great Lakes. So what we're putting forward is, in our 22 view, the most reliable portfolio option. And it's 23 also the lowest cost. 24 MR. BOB PETERS: Let me ask it this 25 way, Mr. Kostick, and my question may have been too

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long-winded. But the fact that the proposal before the 1 Board is on storage, as an example, is \$2 million less 2 expensive than what you currently have. Isn't that an 3 irrelevant consideration going forward from Centra's 4 5 perspective, because Centra has to look at the options 6 that are available going forward, not what they already 7 have or what was available in the past? 8 MR. GREG BARNLUND: Mr. Peters, if I 9 might, I think that that's an accurate -- or inaccurate 10 statement. I think that the relevant point of 11 reference is what was available to Centra at the time 12 the decision had to be entered into. And -- and given 13 that circumstances have produced an outcome that is 14 less expensive than the existing assets is -- is good, 15 but it's important that we're comparing it really with 16 the options we had available to us at the time that we had to make the decision. 17 18 If other circumstances existed that if 19 we evaluated all of the options, and if the most 20 appropriate choice of all those options at the time was 21 \$2 million more expensive than what we had in the past, 22 it still should be evaluated based on the options we 23 had available to us at that time. 24 MR. BOB PETERS: Thank you. You 25 actually asked and answered the question I had, and

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1 that was simply if it was \$2 million more than what you 2 currently have, that would not remove it as the optimum 3 portfolio before the Board.

4 MR. GREG BARNLUND: If that was the 5 best solution, then -- then that would be the case, 6 right.

7 MR. BOB PETERS: Yeah. And -- and 8 let's suppose that you -- if the cost was \$2 million 9 more than the current portfolio as shown at Tab 13 of 10 the book of documents, and Centra did all the due 11 diligence that we've talked about for a day and a half, 12 Centra would still be putting forth before this Board 13 the proposed portfolio at \$14 million.

14 MR. GREG BARNLUND: Yes, we would. 15 MR. BOB PETERS: All right. Thank you 16 for that, Mr. Barnlund. Also, Mr. Kostick and Mr. Barnlund, when the Board sits back and considers all 17 18 the evidence that it has heard, how is Centra able to 19 explain or tell the Board that Centra knows that the 20 SENDOUT model has provided the optimum portfolio? How -- how does Centra know for certain the inner workings 21 22 of the SENDOUT, and that its -- its results are to be 23 taken as -- as accurate? 24 MR. NEIL KOSTICK: SENDOUT is used by 25 approximately seventy (70) natural gas utilities across

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North America, so it is widely used. Its been in the
 market for a number of years. We have no reason to
 doubt its functionality.

I would also suggest that in using the 4 5 model and running different scenarios, and inputting 6 different variables, one (1) can generally understand the results that flow through from those different 7 model runs. At -- I think with any modelling exercise 8 9 you can run a scenario and kind of predict what it's going to do, and it sort of does what you thought. 10 In other cases, it might do something slightly different 11 12 than you thought. But when you think about it you 13 realize what tradeoffs the model likely made. And so 14 at the end of the day it all makes sense to you. So I 15 think that's the experience that we had.

16 We've already talked about how the vendor of the -- of the SENDOUT program worked with us 17 18 to ensure the functionality of the model. And this 19 further speaks to the additional analysis that we had conducted by ICF, which was with a different model and 20 21 a slightly different modelling approach, and 22 fundamentally the results are similar. 23 Again, they're not suggesting -- one (1) 24 -- one (1) model result didn't suggest 5 petajoules of 25 storage versus 40 petajoules of storage. They were

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1 within the ballpark of that 15 petajoules, give or take
2 a petajoule here or there. So they're directionally
3 similar.

And the other results were similar as well, as far as identifying a small cost-benefit to the ANR Great Lakes portfolio over the Option B portfolio. So that was consistent. As well as the consistent finding that western Canadian supply injected into storage in the summer would continue to be economic, as well.

11 So I think we have those number of 12 checks and balances in the whole process that give us 13 full confidence that the SENDOUT model operated 14 accurately, and provided sound results, functional 15 results, and they ultimately were considered in making 16 our portfolio decision that we have brought before this 17 Board.

18 MR. BOB PETERS: Would you agree with 19 me, Mr. Kostick, that Centra's portfolio is absolutely 20 unique amongst any other gas portfolio in North America 21 -- any -- any other gas LDC in North America? 22 MR. NEIL KOSTICK: I don't think there 23 are any two (2) LDC portfolios that are alike, so 24 they're all unique. I would suggest that the vast 25 majority of them use storage, provided it's economic.

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369 Certainly it is in our case. It actually provides for 1 the lowest cost portfolio. So I don't see anything 2 particularly unusual about our portfolio. 3 4 MR. BOB PETERS: Did Centra do any 5 quality assurance tests on the SENDOUT model other than 6 what you've indicated so far? 7 MR. NEIL KOSTICK: No, we did not. 8 MR. BOB PETERS: Did Centra run any 9 retrospective modelling where Centra knew the outcome 10 in advance with some precision to see if the model 11 would give that precise answer? 12 13 (BRIEF PAUSE) 14 15 MR. BRENT SANDERSON: Just from a 16 modelling perspective, Mr. Peters, it's impossible, or 17 not possible to use a model with perfect foresight to 18 replicate an actual historical market outcome or market 19 result, given that the participants in that actual market outcome didn't have perfect foresight. 20 21 So you can -- if you torture the data 22 long and hard enough, it'll confess to anything is a 23 saying that they use, but it would be an exercise of 24 little value. 25 MR. BOB PETERS: Speaking of torturing

the data, Mr. Sanderson, Centra could have taken away 1 the perfect foresight by putting in, as it did, 2 seasonal average prices in terms of prior years, one 3 4 (1) and five (5) year features contracts. 5 Could it not have done that to -- to test it for an actual result? 6 7 MR. BRENT SANDERSON: That's just one (1) of many parameters in the model though, Mr. Peters. 8 9 Weather is far and away a bigger influence on the circumstances on the load that we have to deal with. 10 11 And the further and further along the 12 continuum that you go in taking the degrees of freedom 13 out of the model, well, then the result, if it does agree with a historical result, would be accused of 14 15 being concocted in that the parameters of the model were so constrained that they could yield no other 16 17 result than the actual outcome that you're seeking to 18 replicate. 19 MR. BOB PETERS: In summary then, Mr. 20 Sanderson, the Corporation didn't do any of that back-21 testing, as I'll call it, partly for the reasons you've indicated? 22 23 MR. BRENT SANDERSON: Yes, I'd agree 24 with that. 25 Mr. Kostick, one (1) MR. BOB PETERS:

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371 of the terms of the proposal before the Board is that 1 these fixed costs be approved for each of the seven (7) 2 years, commencing on April 1 of 2013, correct? 3 4 MR. GREG BARNLUND: That's correct. 5 MR. BOB PETERS: And, Mr. Barnlund, the 6 seven (7) year number is a number that again was arrived at based on the judgment of Centra. Would that 7 be correct? 8 9 MR. GREG BARNLUND: Yes. 10 MR. BOB PETERS: And one (1) of the concerns Centra had in the near term was much of the 11 12 TCPL uncertainty that Ms. Stewart has testified about 13 before the Board. That's also correct? 14 MR. GREG BARNLUND: That was one (1) 15 consideration. 16 MR. BOB PETERS: And does Centra have a 17 view on how long it's going to take for that 18 uncertainty to shake down with the National Energy 19 Board such that the future of TransCanada Pipeline is more definitive? 20 21 MR. GREG BARNLUND: I'm not sure that 22 anybody can predict any kind of a timeline for that at 23 all. 24 MR. BOB PETERS: Is Centra making an 25 assumption as to what that timeline would be, Mr.

Barnlund, in coming to the seven (7) years? 1 2 MR. GREG BARNLUND: We're not making an assumption in terms of a timeline for a resolution to 3 the TransCanada situation because it is of a serious 4 5 enough nature that -- that it's possible it may not be 6 resolved for several years. And so we did not forecast a timeline 7 for some potential resolution with regards to 8 9 TransCanada and take that into consideration in our -explicitly in our planning. 10 11 MR. BOB PETERS: Centra expects the 12 TCPL uncertainty to be resolved within seven (7) years. Would that be fair? 13 14 MR. GREG BARNLUND: I would say we 15 would hope for it to be resolved as soon as possible. 16 But I'm not sure that we have any basis for -- for 17 placing any particular expectation on a time frame. 18 MR. BOB PETERS: And if in the 19 resolution of the TransCanada situation there becomes 20 something that's favourable to Centra, Centra will have 21 to reevaluate its portfolio at that time to see if its 22 portfolio is nimble enough to capitalize on whatever 23 favourable TransCanada pipeline situation may -- may 24 occur? 25 Well, I think it's MR. GREG BARNLUND:

fair to say, Mr. Peters, that our staff -- Mrs. Stewart 1 -- Ms. Stewart's staff, they do that on an ongoing 2 basis. And she's testified to the fact that they are 3 always evaluating options. And they would, through the 4 5 regular course of their short-term and medium-term 6 planning, would be doing that type of evaluation, and 7 that they would take into consideration the options that were available to them, and the tolls and the 8 9 costs associated with those options. And -- and they 10 would take those into consideration in doing any form of adjustments to the gas supply portfolio throughout 11 12 the course of the seven (7) years. 13 MR. BOB PETERS: And whether or not 14 Centra could make changes to the portfolio within that 15 seven (7) years will depend largely on what the -- what

16 the specific issue is, or resolution of a TCPL issue.
17 You -- you don't know in advance that you can take
18 advantage of it, but you hope to be able to.

MR. GREG BARNLUND: I think generally, 20 yes, we don't know. We would be open to assessing all 21 the information in the market and taking all that into 22 consideration in our planning.

23 MR. BOB PETERS: And in the negotiation 24 stage, is it correct that the iterative -- iterative 25 discussions on rates and prices was initially centred

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around a five (5) year term, Mr. Kostick? 1 2 MR. NEIL KOSTICK: A five (5) year term was discussed at some point. A five (5) year term was 3 a reasonable starting point for -- for starting 4 negotiations, recognizing that the ultimate term could 5 6 ultimately be something different. 7 MR. BOB PETERS: When five (5) years --I'm taking from your answer, sir, that five (5) years 8 9 was the starting point from Centra's perspective. Would that be fair? 10 11 MR. NEIL KOSTICK: Yes, it was the 12 starting point between ourselves and other parties that 13 we may have been talking to. 14 MR. BOB PETERS: And so you -- you were 15 comparing, as they say, apples to apples. You told all of your counter-parties, 'A', 'B', 'C', and 'D', that 16 17 you wanted to talk five (5) year numbers. Would that 18 be fair? 19 MR. NEIL KOSTICK: That would have been 20 one (1) area that would have been discussed in opening 21 up negotiations, or discussions, with a number of 22 parties. 23 MR. BOB PETERS: Do I take -- or will the Board take from your answer, Mr. Kostick, that some 24 25 of your counter-parties were looking for a shorter-term

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1 arrangement?

2 MR. NEIL KOSTICK: Different storage operators have different perspectives on whether -- on 3 how they want to deal with the term of the contract. 4 5 In some cases, a storage operator may feel that the -the market is soft and don't want to commit to rates 6 over a particularly long term, particularly those 7 storage operators that can charge market-based rates. 8 9 So if they feel that the market is going to rebound and they can charge three (3) or four (4) times what the 10 current value of storage is, then they might not want 11 12 to commit to something particularly long-term. 13 In the case of ANR, their rates are of 14 course capped at a fir -- regulated maximum rate. So 15 they might have a somewhat different view on agreeing 16 on a particular term. So it really varies by storage 17 operator that you talk to. 18 MR. BOB PETERS: Would it be a correct 19 assumption for the Board to conclude that Centra could 20 have entered into a portfolio arrangement for anywhere 21 between one (1) and seven (7) years, just leaving aside 22 the cost right now? 23 MR. NEIL KOSTICK: Yes. 24 MR. BOB PETERS: And it could have 25 entered into a storage arrangement even longer than

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376 seven (7) years, again not considering the cost concern 1 at this point in time. 2 3 MR. NEIL KOSTICK: Yes, we believe so. MR. BOB PETERS: And from -- from the 4 5 reading of the evidence, Mr. Kostick, would it be 6 correct for the Board to conclude that while five (5) years was the -- was a strong part of the discussion 7 for a term of this agreement, it was Centra that wanted 8 9 to increase the term to up to seven (7) years -- up to 10 seven (7) years? 11 MR. NEIL KOSTICK: Yes, that's correct. 12 MR. BOB PETERS: And would it also be 13 correct for the Board to conclude that by Centra 14 increasing it from five (5) years to seven (7) years, 15 there was a price adva -- advantage to Centra's 16 consumers by so doing? 17 MR. NEIL KOSTICK: The rates that were 18 ultimately agreed to for the seven (7) year term were 19 the best rates that we negotiated. So the rates that 20 we negotiated, which are the best rates we feel that we 21 could get, are associated with a seven (7) year term. 22 MR. BOB PETERS: That's a very 23 political answer, because it doesn't answer my question, because the best rates could still be the 24 25 rates that are before the Board on this piece of paper,

for -- and I'm looking at Tab 13. That could be the 1 best rates, Mr. Kostick, that you were able to 2 negotiate. And these same rates may apply to three 3 4 (3), five (5), or some other year. 5 Do you understand my point? 6 MR. NEIL KOSTICK: Yes, but that's not my understanding of the rates that were proposed by ANR 7 and Great Lakes. When five (5) -- when a five (5) year 8 9 term was discussed, the rates were higher. 10 MR. BOB PETERS: Okay. And that -that's what I'm trying to get at is -- and I -- I see 11 12 in one (1) of your Information Responses, I think it's 13 the first one (1) from the PUB, ANR agreed to improve pricing in conjunction with a seven (7) year term. 14 15 Do you recall that answer? 16 MR. NEIL KOSTICK: Yes. 17 MR. BOB PETERS: And by improving the 18 pricing, the conclusion is that the prices were lower 19 by going to seven (7) years rather than five (5) years. 20 MR. NEIL KOSTICK: Yes, that's correct. 21 MR. BOB PETERS: And are you able, Mr. 22 Kostick, to advise the Board how much lower were they 23 by going to a seven (7) year term rather than a five 24 (5) year term? 25 MR. NEIL KOSTICK: I believe that would

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essentially require discussion of intermediate 1 negotiating positions, which of course the -- through 2 the course of negotiations, those discussions are 3 intended to be confidential. 4 5 The expectation, of course, is that once 6 rates are agreed to and a portfolio is agreed to, that 7 those will be brought forward in a public forum for discussion. However, intermediate negotiating 8 9 positions, we don't feel, are commercially -- that it's commercially appropriate to share those intermediate 10 negotiating positions on the public record, in -- in 11 12 fairness and in consideration of the parties that 13 you've negotiated with. 14 MR. BOB PETERS: Thank you for that, 15 Mr. Kostick. Your indication to the Board is that 16 Centra doesn't feel that it's at liberty to put that forward, because it was part of negotiations with one 17 18 (1) of the counter-parties, or maybe more than one (1) 19 of the counter-parties? 20 MR. NEIL KOSTICK: That's correct. 21 MR. BOB PETERS: Is Centra -- if the 22 counter-party was to permit Centra to answer my 23 question as to what the improved pricing was to go from 24 five (5) year to seven (7) year -- if the counter-party 25 agreed to put that forward, is Centra prepared to put

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that forward? 1 2 MR. NEIL KOSTICK: In that event, I believe that could be shared. 3 MR. BOB PETERS: Well, then I'll ask if 4 5 I could, through your counsel, Mr. Kostick, if an undertaking could be -- could provided by Centra to 6 inquire of ANR and Great Lakes Gas Transmission as to 7 whether Centra is at liberty to quantify -- and I'll --8 9 I'll ask for a global figure, not broken down by service, but a global figure for these eight (8) 10 separate contracts as to how much of a price advantage 11 12 it is to Manitoba consumers by having a seven (7) year 13 term rather than a five (5) year term. 14 Is that something you'll make the 15 inquiry on? 16 We will. MR. NEIL KOSTICK: 17 MR. BOB PETERS: Thank you very much, 18 sir. 19 20 --- UNDERTAKING NO. 5: Centra to inquire of ANR 21 and Great Lakes Gas 22 Transmission if it's can 23 quantify global figure for 24 these eight (8) separate 25 contracts as to how much of

380 1 a price advantage it is to 2 Manitoba consumers by 3 having a seven (7) year 4 term rather than a five (5) 5 year term 6 7 CONTINUED BY MR. BOB PETERS: 8 MR. BOB PETERS: Is it fair to say, Mr. 9 Kostick, regardless of that number -- and let's leave it off the public record -- Centra had to make a value 10 judgment as to whether or not it was worth it to go 11 12 from five (5) years to seven (7) years? 13 MR. NEIL KOSTICK: In our view, a seven 14 (7) year term is the preferred term. It's an 15 intermediate term. We had always targeted an 16 intermediate term, and we would consider a seven (7) 17 year term to be an intermediate term. 18 Part of the consideration of the seven 19 (7) year term was, of course, the rates that were 20 negotiated. If all the rates negotiated were for the 21 maximum tariff rate, we -- I don't believe we would 22 have necessarily have gone for a seven (7) year term. 23 But if you can get rates that are quite 24 attractive -- that's our opinion, that these rates are 25 very attractive -- to go for a slightly longer term, if

you will, within the intermediate range, seemed to make 1 2 sense to us. 3 And it really wasn't related to -necessarily to consideration of the TransCanada 4 situation, as we've described throughout in IRs and 5 6 rebuttal evidence. We feel that the portfolio that 7 we've discussed and have brought before the Board is quite flexible in being able to either emphasize or de-8 9 emphasize Western Canadian supply and transport on TransCanada to a greater or lesser extent, depending on 10 -- on what happens on TransCanada. 11 12 And I think it needs to be reemphasized 13 that the -- the notion that a certain order regarding 14 the current TransCanada situation, that that's going to 15 necessarily result in stability in the market 16 thereafter, I think is -- is not accurate. 17 TransCanada tolls move annually -- or, 18 generally they move annually. There's generally no 19 real stability. In fact, if we recall that earlier exhibit that showed the TransCanada settlement that was 20 21 -- where they forecasted tolls from 2007 to 2011, that 22 portrayed a picture of a lot of stability. 23 So if that situation -- situation 24 presented itself again in the future, would you 25 necessarily conclude that rates are going to be stable

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on TransCanada going forward? I don't think you can, 1 because history has shown that even when there is an ex 2 -- expectation of stability, tolls actually wound up, 3 on TransCanada, being more than double what the 4 5 anticipated tolls were. 6 So we have a lot of comfort in the seven 7 (7) year term that it's the appropriate term, that we have flexibility to adapt. In the event that the 8 9 TransCanada situation gets worse, we've talked about how we can essentially make full use of that annual 10 storage component to turn the 15 1/2 petajoules 11 12 effectively into 18.6 petajoules and make more use of -13 - of gas sourced in the US through the -- the storage 14 and related transportation portfolio. 15 MR. BOB PETERS: A couple of comments -- or, sorry, questions from that answer, Mr. Kostick. 16 17 The document you referred the Board to was found at Tab 18 12, and that was from Ms. Stewart's presentation about 19 the extent of the problem on TCPL, showing the toll structure and the toll levels? 20 21 MR. NEIL KOSTICK: Yes, that's the 22 right one (1). 23 MR. BOB PETERS: Your point was the 24 first column that showed rates about a dollar (\$1) to a 25 dollar six (\$1.06), if that was thought to be stability

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back in '07, we see in 2011 that they're out by 100 1 percent or more? 2 3 MR. NEIL KOSTICK: Yes, that's correct. 4 MR. BOB PETERS: And you're saying that 5 going forward, you're going to have to take with a 6 grain of salt, anything that TransCanada puts forward in terms of what they see as their long-term tolling 7 view? 8 9 MR. NEIL KOSTICK: I -- I believe so, 10 as long as -- you know, there are -- there's -- there are fluctuations in supply and demand and different 11 12 factors impacting the fortune of TransCanada. 13 Their tolls would be expected to move 14 around. And that's one (1) of the things that we 15 actually see as kind of a nice blending of a balanced 16 portfolio, is we have our TransCanada capacity, which 17 we can renew annually and we can adjust annually. 18 And those tolls for TransCanada capacity 19 move pretty much on an annual basis. So that's one (1) 20 part of our portfolio. It's actually the more 21 expensive part of our portfolio in comparison to the 22 ANR and Great Lakes piece of it, where on -- on the 23 other hand you have ANR and Great Lakes rates, which are proposed to be fixed for seven (7) years and 24 25 they're in place for seven (7) years.

1 So you have a couple of different elements in your portfolio. Actually, you have three 2 (3) elements in portfolio. You have the storage and 3 related transportation with ANR and Great Lakes. We're 4 5 -- we're proposing seven (7) years at fixed rates. You 6 have the TransCanada transportation component, which 7 has varying and moving tolls and we can adjust those annually. 8 9 And then of course the lion's share of 10 all the costs in the portfolio is the commodity cost of natural gas, which can be purchased through the 11 12 proposed portfolio to a greater or less -- lesser 13 extent from the WCSB, from Western Canada, or from 14 markets like Chicago and Michigan. 15 So in our view it's overall a fairly --16 a fairly balanced portfolio with different elements of different terms. 17 18 MR. BOB PETERS: Mr. Kostick, would you 19 agree that some of the reasons you've cited for a seven 20 (7) year contract -- and I'll just look at the ones I 21 noted -- was you talked about flexibility, you talked 22 about the ability to adapt the portfolio by increasing 23 the storage through they cyclability portion on part of 24 the storage load, and the ability to use US-sourced 25 gas.

385 That same flexibility would exist if the 1 proposal before this Board was for less than seven (7) 2 years, would it not? 3 MR. NEIL KOSTICK: Assuming the same 4 5 features of the portfolio were in place for a five (5) 6 year term as we propose for a seven (7) term, then, yes, the same flexibility would exist. 7 MR. BOB PETERS: And if the same 8 portfolio was put before the Board for a three (3) year 9 10 term and contained all the same elements -- again, we'll leave the price out of the consideration at this 11 12 point -- it would still have all of those attributes 13 that Centra found attractive for going to a seven (7) 14 year term? 15 MR. NEIL KOSTICK: Yes, and just 16 bearing in mind, I think, as we've talked about in IRs and rebuttal evidence, we would be introducing 17 18 recontracting risks at an earlier date, whether it's 19 three (3) years or five (5) years. 20 We don't know what the market 21 circumstances will be for storage and related 22 transportation on ANR and Great Lakes in three (3) 23 years or five (5) years. So there is certainly the 24 risk of having to re-contract for similar assets, 25 similar contracts, at potentially higher rates up the

1 FERC-regulated maximum rate.

2 MR. BOB PETERS: And the question that 3 follows, Mr. Kostick, is that when you re-contract, the 4 rate could in fact be lower. You don't know that 5 sitting here today?

6 MR. NEIL KOSTICK: That's correct. Although the one (1) thing I would note is that a few 7 of the contracts are extremely low and cannot go much 8 9 lower. For example, two (2) of the ANR transportation 10 contracts are 93 percent below the tariff rate, and the Great Lakes winter capacity is about seventy-six (76) 11 12 below the tariff rate -- or 76 percent below the tariff 13 rate. So the balance of risk would appear to be if the 14 market value of those assets increase in later years, 15 that your portfolio cost could change dramatically on 16 the high side more so than on the low side.

MR. BOB PETERS: Would the Board be correct in concluding, Mr. Kostick, that it still came down to a judgment primarily dealing with dollars and cents than as to whether to go from five (5) to seven (7)? (BRIEF PAUSE)

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MR. NEIL KOSTICK: My apologies. Can

you repeat the question. 1 MR. BOB PETERS: I can if I could 2 Mr. Kostick, you've told the Board that 3 remember. what's before them at Tab 13 of the book of documents, 4 in terms of the proposed ANR and Great Lakes portfolio 5 6 on the right side of the chart, that same portfolio 7 could have been available to Centra on, let's say, a five (5) year term, correct? 8 9 MR. NEIL KOSTICK: That's actually a 10 bit of a difficult question. 11 MR. BOB PETERS: Let me rephrase it. 12 MR. NEIL KOSTICK: I -- I can't try to 13 answer it. One (1) thing that -- I think one (1) point 14 that needs to clarified that perhaps hasn't been put on 15 the record is that certain features of the portfolio, 16 such as the -- the annual storage and the -- and the 17 very low-cost transportation from the Chicago market to 18 ANR storage in the winter, were introduced later in the 19 negotiation. 20 I can't say with absolute certainty that 21 even at -- at different rates that this portfolio would 22 be identical under a five (5) year term. But for -- I 23 quess for the sake of discussion we can as -- perhaps assume that we could get the same portfolio for five 24 25 (5) years, but --

1 MR. BOB PETERS: All right. 2 MR. NEIL KOSTICK: -- I really shouldn't say that. I should say that we -- we 3 actually don't know for sure. 4 5 MR. BOB PETERS: All right, then I'll 6 say it. Let's make the assumption the same portfolio is available for five (5) years as compared to seven 7 (7) years. And you've indicated a qualification. 8 The 9 only reason you would from five (5) to seven (7) would be a price consideration? 10 11 MR. NEIL KOSTICK: Yes, to get --12 MR. BOB PETERS: All right. 13 MR. NEIL KOSTICK: -- the -- the best 14 rates, and also with our view that the attractive rates 15 we would want to have essentially locked in for those 16 seven (7) years. 17 MR. BOB PETERS: All right. And that 18 just brings me back to the undertaking where you're 19 going to make the inquiry because it seems that from an outsider's perspective, if -- if the -- if the 20 21 portfolio is available for five (5) years and the 22 Corporation opts to extend it to seven (7) years with 23 some reduced pricing by the counter-parties, then it's 24 the reduced pricing that was the motivation for Centra 25 to go to the -- to a longer period of time?

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MR. NEIL KOSTICK: Yeah, the -- the 1 pricing was a factor as well as the risk mitigation of 2 having that -- having those rates locked in for the 3 seven (7) year term. And as I've discussed, the 4 5 balance of risk in -- in some of these contracts is 6 definitely that they could be a lot more expensive in future years as opposed to much less expensive. 7 8 MR. BOB PETERS: All right. You've --9 you've made that point. I do want to go back. And I 10 want to -- you to be careful as to what you're able to 11 indicate to the Board. But somewhere along the way the 12 Board ha -- may have the impression that these 13 negotiations are iterative in that you run some 14 numbers, you go back looking to win something on the 15 swings, maybe you're going to give it up on the merry-16 go-round, if I can use those terms of art. And 17 eventually you -- you come down to where you think 18 you've got the best deal. Would that be -- that be 19 true? 20 MR. NEIL KOSTICK: In a general sense, 21 yes. 22 MR. BOB PETERS: And you have to expect 23 that your counter-parties are doing the same thing. 24 MR. NEIL KOSTICK: Yes. 25 MR. BOB PETERS: And you've met at what

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390 you've put before the Board as the proposed portfolio. 1 2 MR. NEIL KOSTICK: Yes. 3 MR. BOB PETERS: Now consider this, are 4 you able to tell the Board whether by going from five (5) years to seven (7) years there's been additional 5 6 functionality, flexibility, or optionality included in moving from a five (5) to a seven (7) year? Are you 7 able to answer that or not? 8 9 10 (BRIEF PAUSE) 11 12 MR. NEIL KOSTICK: As I alluded to in 13 an answer a few moments ago, some of the features of 14 the portfolio were introduced at a later stage. In 15 particular I'm thinking of, as I believe I alluded to, 16 the annual storage component and the related 17 transportation from Chicago to storage in winter. То 18 the best of my recollection, I believe those were only 19 discussed on a seven (7) year term. 20 MR. BOB PETERS: Could you undertake to 21 verify that last answer of yours, Mr. Kostick, with 22 some certainty, by way of undertaking, as to whether 23 the -- the division of storage into seasonal and annual volumes only came about with the change to seven (7) 24 25 year from five (5) year, and likewise whether the low

tolling rate to go from -- you said Chicago to ANR 1 storage, I'm not sure if you mean Joliet or Chicago but 2 3 ___ MR. NEIL KOSTICK: Well, it's Joliet --4 5 the Joliet point allows access to Chicago. MR. BOB PETERS: All right. 6 7 MR. NEIL KOSTICK: So it's the same 8 thing. 9 MR. BOB PETERS: And find out whether that -- that feature was also only made available as a 10 result of going from five (5) years to seven (7) years? 11 12 MR. NEIL KOSTICK: Yes, we can do that. 13 MR. BOB PETERS: Thank you for that, 14 sir. 15 --- UNDERTAKING NO. 6: Centra to indicate if the 16 17 division of storage into 18 seasonal and annual volumes 19 only came about with the 20 change to seven (7) year 21 from five (5) year; and 22 whether the low tolling 23 rate to go from Chicago to 24 ANR storage was also only 25 made available as a result

1 of going from five (5) 2 years to seven (7) years 3 4 CONTINUED BY MR. BOB PETERS: 5 MR. BOB PETERS: Mr. Kostick, would the Board be of the correct understanding that while these 6 negotiations have come down to a proposal from ANR and 7 Great Lakes, there was a very comparable proposal also 8 9 available to the Utility from party 'B'? 10 MR. NEIL KOSTICK: It was comparable on 11 a total cost basis. 12 MR. BOB PETERS: Not only on total 13 cost, but in terms of optimizing the portfolio through 14 the -- through perhaps different services. 15 MR. NEIL KOSTICK: I think our 16 application and various other IRs discuss some of the differences between the ANR Great Lakes option and 17 18 Option B. It wasn't strictly a matter of cost but 19 there were also considerations of flex -- port --20 portfolio flexibility and access to different sources 21 of supply, as well as reliability. And the ANR 22 portfolio was judged to be superior to the Option B 23 portfolio on those other factors. 24 MR. BOB PETERS: Are you able to say 25 whether Option A, which is ANR and Great Lakes, was

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393 still a preferred option at a five (5) year level of 1 services that were being negotiated? Or was Option B 2 more financially advan -- advantageous at that point in 3 the negotiations? 4 5 MR. NEIL KOSTICK: In terms of costs, I don't think there would have ever have been a point 6 where they would have been significantly far apart 7 where there would have been a clear winner, so to 8 speak, on a -- on a cost basis alone. 9 10 MR. BOB PETERS: Just a note I made to 11 myself and, Ms. Stewart, I apologize for going 12 backwards on this, but going backwards is the -- is the 13 theme. If the TransCanada pipeline becomes has bidirectional valves, if I've got that right, installed 14 15 at Emerson, such that gas can travel into Canada on the 16 TransCanada line at Emerson, does it matter to Centra 17 in its ability to get storage gas to Manitoba? 18 19 (BRIEF PAUSE) 20 21 MS. LORI STEWART: No. At present, we're indifferent to that. 22 23 MR. BOB PETERS: Are there contractual 24 agreements, or agreements as between governments, that 25 have to be taken into account for TransCanada and

394 perhaps even Great Lakes to alter the flows of its gas, 1 or the volumes of the flows of its gas, that have to be 2 considered? 3 4 MS. LORI STEWART: Typically its 5 facilities upgrades are reviewed by the regulator. 6 MR. BOB PETERS: Cen -- Centra's not aware of any agreements as between Canada and, say, 7 TransCanada pipeline as to what it has to flow in terms 8 of volumes, either south through Emerson or north over 9 northern Ontario? 10 11 12 (BRIEF PAUSE) 13 14 MS. LORI STEWART: There -- there is a 15 historical agreement, Mr. Peters, as to the -- the 16 relative percentage of mainline flows that must move over the northern Ontario line. I'm not -- I couldn't 17 18 speak to those details of that agreement in this venue 19 today. 20 MR. BOB PETERS: And are you -- is 21 Centra aware of any agreements as between Canada and 22 the United States concerning transit pipelines? 23 MS. LORI STEWART: Typically the No. 24 North American pipeline grid operates as one (1) 25 integrated facility, practically speaking.

1 MR. BOB PETERS: Ms. Stewart, I hope 2 this isn't too far off base. And certainly to the Board I apologize if it is. But from what you've told 3 the Board earlier about Great Lakes being able to 4 5 physically reverse the flow of gas on its line, and 6 with TCPL putting in bidirectional valves, does that 7 imply that at some point in the future physical molecules can come to Manitoba through the Great Lakes 8 9 pipeline up into the Manitoba delivery zone through TransCanada at Emerson? 10 11 MS. LORI STEWART: Yes, it does. 12 MR. BOB PETERS: And as far as Centra's 13 portfolio that's now before the Board, Centra is 14 indifferent if that ever happens? 15 MS. LORI STEWART: That's not what I 16 said. I believe your former question was in terms of the flows outlined under the contracts associated with 17 18 this proposed portfolio. At present we're indifferent, 19 because the pipeline is only physically moving gas in a counter-flow direction very few days out of the year. 20 21 So the pipeline manages that. 22 And at present there is -- is no 23 proposed change on the table to the tariff. But, of course, we need to pay attention to that in the event 24 25 that TransCanada were to propose a change to the tariff

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396 going forward associated with flows. Because, quite 1 frankly, the tariff was designed in a different world. 2 And we've -- Mr. Sanderson and -- and myself have both 3 spoke about how the North American natural gas market 4 is changing. And it is having an impact on pipelines. 5 6 And so, of course, we will remain attentive to any such change that would impact our future contracting -- I'm 7 sorry, and operation. 8 9 MR. BOB PETERS: Under the proposed 10 portfolio you have before the Board, does Centra see it as being flexible enough to take physical delivery of 11 12 gas through the Great Lakes transmission line, up 13 through TCPL at Emerson? 14 15 (BRIEF PAUSE) 16 17 MS. LORI STEWART: Mr. Peters, I would 18 appreciate if you could repeat the question. 19 MR. BOB PETERS: Oh, yeah, you've 20 cottoned on. Ms. Stewart, I was asking that the 21 proposed portfolio which is shown, coincidentally, at 22 Tab 6 on the winter operations map. Tab -- page 28 of 23 the book of documents, just to have the -- the map in 24 front of us. The question was whether the portfolio 25 that Centra is proposing before this Board today can

accommodate the flexibility, where molecules will 1 physically flow on Great Lakes into Manitoba through 2 the bidirectional metering at TCPL's facilities in 3 4 Emerson. 5 MS. LORI STEWART: Yes. Yes, it can. 6 MR. BOB PETERS: So in that instance, Centra would be able to have a competitive option to 7 Western Canadian sourced gas, in terms of bringing gas 8 9 from the east. Would that be true? 10 MS. LORI STEWART: I think for me to go down this path we have to be very careful about 11 12 characterizing our contractual commitments and what is 13 happening physically on the pipeline because, as you 14 know, they -- they are significantly disconnected. 15 MR. BOB PETERS: I was trying to get at, Ms. Stewart, recognizing the contractual 16 17 arrangements that Centra has, whether its portfolio 18 that it's pro -- proposing would be flexible enough to 19 allow it to actually bring molecules from the south and 20 the east. 21 MS. LORI STEWART: And contractually, 22 yes, we have that ability whether or not those molecules are actually coming from the WCSB and 23 arriving at Manitoba and then displacing volumes 24 25 further -- further down the line. There's a different

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398 answer to your question in terms of what's happening 1 physically on a day-by-day basis. 2 3 MR. BOB PETERS: All right, now, I -- I 4 have your clarification on that. But you're saying 5 that theoretically it can be accommodated, and it's 6 just a question of whether it's -- is it actual physical forward haul or is it -- is it the notional 7 back haul that we're talking? 8 9 MS. LORI STEWART: Yes, that's correct. 10 MR. BOB PETERS: Okay, I have your points. Thank you for that. 11 12 MR. RAYMOND LAFOND: Can I ask a 13 supplent -- supplementary question to this? 14 Essentially, would you have the capacity to -- to 15 essentially supply all your gas through Great Lakes 16 from ANR storage and the other points of supply? 17 18 (BRIEF PAUSE) 19 20 MS. LORI STEWART: The proposed 21 portfolio is designed to provide us with the 22 flexibility to take as much as 100 percent of our gas 23 from the WCSB or as little as 60 percent of our gas 24 from the WCSB. So this proposed portfolio is providing 25 us with that range.

1 It does not go as far as providing us with the ability to -- to bring 100 percent US-sourced 2 supplies to Manitoba. 3 4 5 CONTINUED BY MR. BOB PETERS: MR. BOB PETERS: Mr. Kostick, I just 6 wanted to move forward. But again I find myself -- I 7 think I missed an area with you on Tab 18 of the book 8 9 of documents. Tab 18, page 61, contains the numerical output from the SENDOUT model using the price curves 10 11 that Centra ran. 12 And we've talked about that at some 13 length? 14 MR. NEIL KOSTICK: Yes, we have. 15 MR. BOB PETERS: One (1) of the things 16 we didn't talk about and we see on that chart is that 17 the supply is -- is broken down as to where the supply 18 should come from. 19 Do you see that at the bottom third of 20 the chart? 21 MR. NEIL KOSTICK: Yes, I do. 22 MR. BOB PETERS: Can Centra provide the 23 transportation capabilities that SENDOUT recommended as 24 optional for both the recommend -- yeah, as -- as 25 optimal for both the -- the futures curves that were

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400 used by Centra as well as the ICF curves that are shown 1 on this chart? 2 3 4 (BRIEF PAUSE) 5 6 MR. NEIL KOSTICK: So just to confirm, 7 you're asking for the -- the transportation capacities 8 or... 9 MR. BOB PETERS: Yes, the 10 transportation capacities that SENDOUT has recommended be engaged for different legs of transportation for --11 12 for the SENDOUT results that are shown on this page. 13 14 (BRIEF PAUSE) 15 16 MR. BRIAN MERONEK: Mr. Peters, we're -- what's the reference? 17 18 MR. BOB PETERS: Mr. Meronek, yes, if 19 one looks to Tab 18 of the book of documents, page 61, there's a chart of the SENDOUT results. And I was 20 21 putting to the witness that while the bottom third of 22 the page shows the annual supply and where it should 23 come from under an optimal portfolio, we don't see the 24 same for the transportation portion. 25 And I'm asking Mr. Kostick if he and his

colleagues can undertake to provide that in relation to 1 this chart. 2 3 MR. NEIL KOSTICK: My apologies. Yes, that information can be made available. 4 5 MR. BOB PETERS: Can it be presented -and I'll let you think about this one (1) as well as 6 part of the undertaking, Mr. Kostick -- can it be 7 presented in a way similar to what you've broken down 8 9 on Tab 13 of the book of documents on page 48, where 10 you've broken it down into seasonal -- or, ANR transportation summer and winter, as well as Great 11 12 Lakes summer and winter? 13 MR. NEIL KOSTICK: Yes, we can do that. 14 MR. BOB PETERS: Thank you for -- for 15 that, sir. 16 17 --- UNDERTAKING NO. 7: Centra to indicate the 18 annual supply and where it 19 should come from under an 20 optimal portfolio for 21 transportation portion, and 22 break it down into ANR 23 summer and winter, and 24 Great Lakes summer and 25 winter

CONTINUED BY MR. BOB PETERS: 1 2 MR. BOB PETERS: Mr. Kostick, and Ms. Stewart, I want to spend as little time as possible, 3 because I think we've talked about the non-storage 4 5 option and reliance solely on TransCanada pipelines in 6 lieu of storage, although there are a few points that I didn't get to. 7 8 If I asked the question, Ms. Stewart and 9 Mr. Kostick, if -- if storage wasn't an option for the 10 Utility, what TCPL services would Centra expect to rely 11 on to meet the load? 12 13 (BRIEF PAUSE) 14 15 MS. LORI STEWART: If storage was not 16 available in any marketplace, or... 17 MR. BOB PETERS: Yeah, let's go with --18 it's not available at all, Ms. Stewart, and you have to 19 have a -- have a non-storage option, as I've called it. 20 Let me help you, you -- you'd use the firm 21 transportation to the extent that you needed it for 22 base load. 23 Would that be a fair consu --24 assumption? 25 MS. LORI STEWART: Yes, we would likely

use a combination of TransCanada services relying 1 predominantly on both firm transportation as well as 2 short-term firm transportation. 3 And for the benefit of the Board, short-4 5 term firm transportation is available for as little as 6 a seven (7) day period, or as long as a seasonal block, so a five (5) month block in the winter, or a seven (7) 7 month block during the -- the summer season of the gas 8 9 year. 10 MR. BOB PETERS: In addition to that 11 you might use some delivered service. Was that also a 12 thought? 13 MS. LORI STEWART: Yes. Typically our 14 use of delivered service, or primary gas transported by others, is driven by the economics of the arrangement 15 16 on a case-by-case basis. 17 So if we see value for ratepayers in 18 contracting for a delivered service in lieu of mainline 19 firm transportation and a combination of our supply 20 contract, then we will evaluate those options. 21 MR. BOB PETERS: Would -- would it be 22 prudent from Centra's perspective to use the STFT that 23 you've talked about, Ms. Stewart, to meet the entire 24 load? 25 MS. LORI STEWART: Well, one (1) of --

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there are -- at present there are a couple of 1 significant pitfalls associated with short-term firm 2 transportation. One (1) of them is the fact that we do 3 not earn ram credits on STFT. 4 5 So I would have limited ability -- not 6 no ability, but more limited ability -- to mitigate the fixed costs of our short-term firm contract. And the 7 other consideration is that at present, short-term firm 8 9 transportation contracts do not come with renewal 10 rights. 11 And so that's something that in today's 12 environment doesn't necessarily overly concern us, but 13 typically a utility is looking for renewal rights associated with its service such that it can assure 14 15 itself and assure, for the benefit of ratepayers, that 16 there will be continuity of service. 17 18 (BRIEF PAUSE) 19 20 MR. BOB PETERS: Ms. Stewart, if Centra 21 did avail itself of the STFT and recognizing those 22 pitfalls, would it also incur additional balancing 23 fees? 24 MS. LORI STEWART: In a no-storage 25 portfolio, definitely.

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1 MR. BOB PETERS: And Mr. Stauft quantified them at about \$2 million a year. Is that 2 something you're prepared to accept as a reasonable 3 amount in that scenario? 4 5 MS. LORI STEWART: Well, balancing fees 6 are calculated as a function of the firm transportation toll, so as firm transport tolls increase, thus would 7 balancing fees. So the -- again, the balance of risk 8 9 is perhaps to a number greater than that. 10 MR. GREG BARNLUND: And if I might add, 11 I believe Mr. Stauft had referred to some level of 12 balancing fees we had paid in the past, probably in the 13 late 1990s, in the neighbourhood of \$2 million. But 14 bearing in mind, that was when we, as we do today, operate with storage on our system. 15 16 And so if we were completely absent storage, I'd question whether the \$2 million estimate 17 18 is valid. I would think it would be significantly low. 19 MR. BOB PETERS: One (1) of the 20 benefits, though, would be -- with the no-storage 21 option, would be the ability to source more gas --22 sorry, you -- you'd have the ability to source only 23 your gas from -- from Western Canada, correct? 24 MS. LORI STEWART: Yes. 25 MR. BOB PETERS: And that may bring

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1 with it additional costs when we talk about -- and I
2 think it was Mr. Sanderson who showed us the
3 summer/winter price differential.

And Centra wouldn't be able to take advantage of that, if that exists in any particular year, by putting cheaper summer gas into storage.

7 MS. LORI STEWART: Yes, that's correct. 8 And there are also the cost implications associated 9 with our swing service. So our primary gas supply 10 contract has both a base load component and a swing 11 component.

And I think it's generally accepted that our swing pricing is favourably impacted by the inclusion of those base load volumes. The base load volumes are easy to serve up, same day, same amount every day within the month.

17 It's the swing volumes that represent 18 the challenge for a service provider if we're ranging, 19 you know, 50,000 GJs on the day, and we're doing that 20 as late in the day as intra-day 2. So they're in the 21 gas day, the market has closed, and we adjust our 22 nomination.

And the supplier wears the risk that the price has changed and that we're putting gas back to them, and it's at a lower price than what they had

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originally factored in. 1 2 So at present, that swing component of our supply contract is another of our tools, in terms 3 of meeting the variable requirements of the Manitoba 4 5 marketplace. We rely most heavily on storage. We also 6 rely on the swing component of our contract. And 7 lastly, we're -- we rely on our peaking delivered services. 8 If we were in a no-storage environment, 9 10 my -- in my professional judgment, the cost of the swing component of our supply contract would increase. 11 12 I -- I can't at this point suggest to you the extent which that could happen, but I think we could be 13 14 looking at some materially higher costs for swing 15 service. 16 MR. BOB PETERS: Ms. Stewart, or fellow witness colleagues, do you have any opinion on whether 17 18 the summer/winter price differential that Mr. Stauft 19 quantified at \$4 million is reasonable? 20 MR. BRENT SANDERSON: Without going 21 away and deconstructing his numbers, I wouldn't be 22 willing to venture an opinion on it, with the exception 23 of saying that to the extent that buyers and sellers in 24 the marketplace today are exchanging prices for future 25 delivery out as far as five (5) years, at a level that

reflects an expectation that, on average, winter prices 1 will be approximately 10 percent higher on average than 2 the prior summer's prices, and that that agrees so 3 consistently with the historical experience, with the 4 5 caveat that what happens in each and every individual 6 year is anyone's guess. 7 I would say I would agree with the markets expectation as being very reasonable and 8 9 consistent with the historical experience. 10 MR. BOB PETERS: Lastly on this point, the total costs of the US storage and transportation 11 12 that you have before the Board, you've told the Board 13 do not include any TCPL costs. 14 But it is also accurate to say that if 15 the prop -- portfolio is approved as filed, there would 16 be the TCPL storage transportation service cost that would also have to be added into the annual costs that 17 18 Centra's ratepayers would have to pay because of the 19 storage and transportation portfolio? 20 MS. LORI STEWART: Yes, those two (2) 21 parts of our arrangements are -- are linked. 22 MR. BOB PETERS: And what's the 23 approximate annual STS costs, Ms. Stewart? 24 MS. LORI STEWART: Just under \$3 25 million, Mr. Peters.

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MR. BOB PETERS: And Mr. Stauft also 1 raised the variable costs of being about \$1 million, 2 and you'd accept that as being reasonable for the 3 running of the US storage and transportation portfolio? 4 5 MS. LORI STEWART: Yes, that's correct. 6 MR. BOB PETERS: Thank you. If we turn to the term sheet. It's back at Tab 3 of the book of 7 documents, and don't take that as a directional 8 9 indication of where we are. 10 But the term sheets on page 20, Mr. Kostick, these are the eight (8) contracts that Centra 11 12 has referred to, correct? 13 MR. NEIL KOSTICK: Yes, that's right. 14 MR. BOB PETERS: And this contains the 15 numerical representation of what the Board has already 16 seen on the maps at Tabs 5 and 6 of the book of 17 documents, as well as the chart on Tab 13 of the book 18 of documents? 19 MR. NEIL KOSTICK: Yes. 20 MR. BOB PETERS: And so let's look at 21 the notes related to the term sheet, because that's 22 usually where the -- the issues could arise. 23 The first note reminds Centra and all 24 others that this is packaged deal, and it's a take it 25 or leave it type of arrangement. Would that be

1 correct? 2 MR. NEIL KOSTICK: Yes. 3 MR. BOB PETERS: And if one (1) aspect of this was problematic, Centra would be back at the 4 5 drawing table -- negotiating table, trying to address 6 any deficiencies that were identified by this Board, as well as construct the portfolio as optimally as it can 7 under new negotiations? 8 9 MR. NEIL KOSTICK: Yes. 10 MR. BOB PETERS: We've talked about the tolls. Secondary delivery is a point that we should 11 12 mention. And Centra is getting some ability to deliver 13 at secondary points included in their -- in their services offerings from the counter-parties. 14 15 Have I got that right? 16 MR. NEIL KOSTICK: Yes, on ANR and 17 Great Lakes, one (1) can receive and deliver gas at 18 different points that aren't on the contract. But if 19 you have a discounted contract, using those alternate 20 points that are not on the contract would cause the 21 rates to go to the maximum rate for any volumes that 22 are used at those alternate points unless you have 23 specifically negotiated other discounted receipt and 24 delivery points. 25 MR. BOB PETERS: And Centra has

negotiated some other secondary receipt points at a 1 discount, correct? 2 3 MR. NEIL KOSTICK: Yes, that's correct. MR. BOB PETERS: And the ones that are 4 5 not expressly negotiated, those revert back to the 6 entire, full FERC toll if Centra wants to take advantage of them. 7 8 MR. NEIL KOSTICK: That's right. 9 MR. BOB PETERS: If Centra did want to go to a secondary receipt point or delivery point that 10 was not included in this agreement, Centra would have 11 12 to calculate the economics of the full FERC rate to the 13 profitability of the transaction it was trying to 14 construct. 15 MR. NEIL KOSTICK: That's right. 16 MR. BOB PETERS: We've talked about Tab 8 in terms of the right of first refusal. Tab -- point 17 18 9 -- note 9, the contracts will be pro forma. Lawyers 19 hate these because they're too boilerplate. But this 20 just means that these pro forma contracts have already 21 been approved, certain of them, by FERC already. 22 Would that be correct? 23 MR. NEIL KOSTICK: Yes. 24 MR. BOB PETERS: However, one (1) of 25 these FERC has never approved before. Would that also

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be correct? 1 2 MR. NEIL KOSTICK: One (1) of the contracts will have what's termed nonconforming 3 4 language, because it's not part of the pro forma 5 contract, but an existing -- the same exists on our existing contract. So FERC has essentially approved 6 that in the past. And it does need to be, once again, 7 though brought before FERC for approval of that 8 9 particular contract. 10 MR. BOB PETERS: As shown on the maps 11 that we've seen already, the non-conforming portion is 12 the part that allows ANR to take the gas and deliver it 13 into storage, either at a place called Deward or at a 14 place called Farwell? 15 MR. NEIL KOSTICK: It's the contract that moves the storage gas from ANR storage facilities 16 17 to Great Lakes, and that could be at either Deward or 18 Farwell. 19 MR. BOB PETERS: And if it can be at 20 either Deward or Farwell, whose choice is that in terms 21 of the delivery? 22 MR. NEIL KOSTICK: On a day-to-day 23 basis, it's Centra's choice. However, if for 24 operational reasons ANR wants to change it to a point 25 that Centra didn't select it can do that. It would be

413 transparent to Centra and all billing would assume that 1 the gas moved as Centra nominated. 2 3 MR. BOB PETERS: If this Board approves 4 what's before them in terms of the portfolio package, 5 ANR and Centra plan to operate as per the agreement, 6 while ANR and -- gets FERC approval for this nonconforming portion? 7 8 MR. NEIL KOSTICK: It's expected that this will be brought before FERC as soon as possible 9 once this Board provides any required approvals or the 10 required approvals. And so that would be known well in 11 12 advance of the contracts taking effect. MR. BOB PETERS: But if FERC hasn't 13 14 given its approval, Centra and ANR continue -- intend 15 to operate as per these contracts on the assumption 16 that FERC will approve it? 17 MR. NEIL KOSTICK: We're operating on 18 the assumption that -- that FERC will approve it. 19 MR. BOB PETERS: I'm not sure if you 20 got my point. And I apologize if you didn't, Mr. 21 Kostick. Assuming this Board does approve the 22 portfolio and the cost consequences of the eight (8) 23 contracts and we find ourselves on April the 2nd, 2013, without FERC having approved the non-conforming portion 24 25 of this one (1) contract, what happens to Centra's

portfolio? 1 MR. NEIL KOSTICK: 2 That depends on what FERC would ultimately order. And the response from ANR 3 would be based on whatever FERC orders in that regard. 4 And I believe ANR provided a response on that in one 5 6 (1) of the information requests, that it could be a regulatory response with respect to either further 7 discussions with FERC or making a change in their 8 9 tariff. 10 MR. BOB PETERS: Mr. Barnlund, Mr. 11 Stauft also raised concerns about the consultation 12 process. You're aware of that? 13 MR. GREG BARNLUND: Yes. 14 MR. BOB PETERS: Do you agree that 15 there was a gap between the stakeholder consultation 16 that took place in 2011, where Centra had not yet undertaken any detailed analysis to the point where 17 18 Centra prepare -- presented its final proposed 19 portfolio as -- as essentially a take-it-or-leave-it 20 prospect, in my words? 21 MR. GREG BARNLUND: Well, there was 22 certainly an elapsed period of time from the end of the 23 stakeholder process, the receipt of the written 24 submissions, which would have been early September, and 25 then when we actually made application here in 2012.

1 MR. BOB PETERS: Right. But Centra also didn't go back and look to the stakeholders for 2 any input when it got into the negotiations with 3 parties 'A', 'B', 'C', and 'D'? 4 5 MR. GREG BARNLUND: No, we did not. 6 MR. BOB PETERS: Centra took the view that that was -- was -- it had to be too nimble, it had 7 to be very responsive and, therefore, didn't have time 8 9 to involve other stakeholders? 10 MR. GREG BARNLUND: I -- I think that, 11 you know, of course, events transpire very quickly 12 through the course of a negotiation process. But I 13 think it was also the view of the -- of the Company 14 that -- that we really were in a position where we wanted to be able to obtain information from the 15 proponents and begin evaluating this so that we could 16 begin narrowing down our choices. And -- and so that's 17 18 really the path that we chose to take through September 19 and October of this year. 20 MR. BOB PETERS: Mr. Barnlund, could 21 stakeholders have been involved in the modelling and 22 optimization process? 23 MR. GREG BARNLUND: I think it really -24 - it's probably very difficult and awkward in that when 25 we enter into the process of -- of being able to do

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1 this modelling we obviously have to have some
2 information from the different storage proponents
3 themselves to be able to begin this.

To the extent that those parties are 4 5 providing us with that information on a confidential 6 basis, because they are competitors with each other in the storage market, they are providing us with that 7 information with the understanding and assurance that 8 9 we are going to protect that information, use it for 10 our analytical purposes, but not be sharing it with 11 others.

12 And so the difficulty in -- in embarking 13 on a public process in the midst of that is that it 14 would inevitably result in disclosure of the details of 15 the -- of those contracts or -- or proposed rates, which would, you know, obviously place the storage 16 proponents at some risk, because they're providing 17 18 their quotations essentially into the public domain at 19 that point in time.

20 MR. BOB PETERS: Even if there was 21 additional consultation, does Centra acknowledge that 22 it would still need to make application to this Board 23 for approval of the cost consequences? 24 MR. GREG BARNLUND: Yes, very much. 25 And I think that we've followed the -- certainly the

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directions that were given by this Board in planning 1 our entire process to deal with these contract 2 renewals. And certainly an application to this Board 3 was one (1) of those commitments, and that the approach 4 5 that we took was in complete compliance and adherence 6 with the provisions that were set out by the Public Utilities Board in the spring of 2011. And -- and 7 we're confident that we -- we pursued this in that 8 9 regard. 10 MR. BOB PETERS: Over the next seven 11 (7) years, Mr. Kostick and Mr. Barnlund, does Centra 12 expect to learn from their portfolio as to what was --13 what is in fact optimal? Is there an opportunity to 14 learn here? 15 MR. GREG BARNLUND: I'm not sure, Mr. 16 Peters -- could you ask me that one (1) again? 17 MR. BOB PETERS: I'll ask it 18 differently. Going forward, Mr. Barnlund, Centra will 19 have actual data based on actual prices, actual 20 weather, and whatever is happening in the marketplace, 21 correct? 22 MR. GREG BARNLUND: We would know the 23 actual results of -- of the operation of the portfolio, 24 given the weather we had experienced and the customer 25 load.

1 MR. BOB PETERS: Are you able to use that information going forward, so that in -- if your 2 application is approved seven (7) years from now, you 3 4 can explain to the Board what you've learned from this 5 -- this process? 6 7 (BRIEF PAUSE) 8 9 MR. GREG BARNLUND: I -- I think that 10 I'm not exactly sure of the usefulness of that exercise in that we -- we are designing a portfolio to take into 11 12 consideration a wide range of weather conditions. And 13 as we go through each of the seven (7) years operating 14 the portfolio, we will experience weather conditions 15 that -- that may be, you know, may not range in the 16 same way that we had -- of the -- as the weather that we had examined when we did our evaluation or our 17 18 analysis. So it's difficult to say whether that would 19 actually be useful to us or not. 20 MR. BOB PETERS: Then how will Centra 21 know it's been successful in the operation of its 22 portfolio going forward? 23 MR. GREG BARNLUND: Well, I think very 24 much the -- the metrics we would have is to ensure 25 that, you know, that we are obtaining supplies for the

419 Manitoba market without interruption, without any type 1 of reliability issue. And that we would be, obviously, 2 filing on an annual basis approval of gas costs that we 3 had incurred. And we would bring forth, you know, on a 4 5 total portfolio basis, all of our gas costs, commodity 6 costs and transportation and storage costs at that point in time. And we would be providing that 7 information to the Public Utilities Board in the 8 9 process of setting rates on an annual basis. 10 MR. BOB PETERS: That would include, Mr. Barnlund, the unused demand charges that Centra has 11 12 to pay because its capacity exceeded its requirements 13 in any particular year? 14 MR. GREG BARNLUND: Well, I think, Mr. 15 Peters, we more or less do that now because we report 16 on our capacity release -- capacity management results. 17 And capacity management is a component of our -- of our 18 rate setting process. 19 MR. BOB PETERS: If I understood the 20 previous evidence, Centra intends to keep its hands on 21 the senput -- the SENDOUT model. Is that correct? 22 MR. GREG BARNLUND: Yes. 23 MR. BOB PETERS: There's an annual cost to that, probably cost to what you've paid already on 24 25 an annual basis?

MR. GREG BARNLUND: Yeah, I'm not sure what it'll be going forward but there's certainly an annual cost associated with that.

4 MR. BOB PETERS: And could Centra run 5 SENDOUT with actual weather and actual prices to 6 provide guidance for whether the portfolio -- what 7 would have been the portfolio with perfect hindsight at 8 that point in time?

9 MR. GREG BARNLUND: No, that wouldn't 10 be possible because the SENDOUT model will know -- you input the actual weather, and it will know every day of 11 12 the year what it -- what you would have to dispatch to 13 be able to serve that load. And that clearly isn't 14 available to us as operators of the system. We have 15 to, again, look at -- at the outset of the winter try 16 and look at, on a -- you know, on a day-by-day, month-17 by-month, basis, as we go through the winter, how we 18 manage the amount of gas we have in storage to be able 19 to make sure that we've got storage available to us by 20 the time we get to the end of the winter season. So SENDOUT is a model that -- that knows 21 22 what weather is going to occur every day of the -- of 23 the winter. And so it can plan exactly how you would use the system. Unfortunately, in real life any 24

25 utility does not have access to that information. And

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so every utility would operate the system to the best 1 of their ability, but it would not produce -- or 2 SENDOUT could not be modelled to produce a result that 3 could be used to effectively back-check that. 4 5 MR. BOB PETERS: The primary gas 6 contract was a question raised by Board Member Lafond, and the company currently has its supply contract with 7 ConocoPhillips that terminates October 31 of 2012? 8 9 MR. GREG BARNLUND: That's correct. 10 MR. BOB PETERS: The request for proposal has gone out, and Centra has requested a two 11 12 (2) year contract from various proponents? 13 MS. LORI STEWART: Yes, that's correct. 14 MR. BOB PETERS: And as I understood 15 the information, forty-three (43) parties received the 16 request for proposal from Centra, Ms. Stewart? 17 MS. LORI STEWART: Yes, that's correct. 18 MR. BOB PETERS: And eight (8) of them 19 responded? 20 MS. LORI STEWART: That's correct. 21 MR. BOB PETERS: And Centra is now 22 going through the due diligence on the eight (8) that 23 responded, have I got that right? 24 MS. LORI STEWART: That's correct. 25 MR. BOB PETERS: Are there any

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422 constraints on the storage and transportation portfolio 1 that will be imposed by the new primary gas contract? 2 3 MS. LORI STEWART: No. 4 MR. BOB PETERS: Does the new primary 5 gas contract that's being contemplated, Ms. Stewart, 6 have any implications for Centra's TCPL commitments? 7 MS. LORI STEWART: No. 8 MR. BOB PETERS: One (1) of the other 9 topics that was canvassed in the Information Requests from Just Energy, as well as the Public Utilities 10 Board, had to do with western transportation service, 11 12 correct? 13 MR. GREG BARNLUND: Yes, that's 14 correct. 15 MR. BOB PETERS: And, Mr. Barnlund, some consumers in Manitoba purchase their primary 16 17 natural gas from Centra and some pur -- purchase it from registered natural gas brokers, is that correct? 18 19 MR. GREG BARNLUND: yes. 20 MR. BOB PETERS: And when consumers buy 21 primary gas from the marketers, the primary gas they're 22 purchasing is a percent of their total annual 23 consumption as ultimately determined by Centra. 24 MR. GREG BARNLUND: Yes, and I would 25 add that all customers will experience that separation

423 of primary gas and supplemental gas on their bill. We 1 bill all customers primary gas separately from 2 supplemental gas, and so the primary gas may be 3 supplied by a marketer or it may be supplied by Centra. 4 5 MR. BOB PETERS: But the supplemental 6 gas is provided 100 percent by Centra. MR. GREG BARNLUND: 7 Yes. 8 MR. BOB PETERS: And in terms of 9 percentages, the primary gas that a consumer sees on an annual basis is approximately, for a residential 10 customer, 97 percent? 11 12 MR. GREG BARNLUND: I believe there's an IR that has that information. I think it's 13 PUB/CENTRA-18. Mr. Peters, PUB/CENTRA-19, I think, 14 15 would turn up the actual -- the actual percentages. 16 MR. BOB PETERS: So it's 97 percent for -- for the firm customer? 17 18 MR. GREG BARNLUND: Yes. 19 MR. BOB PETERS: Under the definition 20 of supplemental gas, there has been, over time, a 21 change in the definition of what is supplemental gas 22 provided by Centra. 23 Would that be true? 24 MR. GREG BARNLUND: I think there has 25 been a change in terms of that definition of

supplemental gas and primary gas in conjunction. 1 2 MR. BOB PETERS: And the definition of supplemental gas used to be gas that was the winter 3 peaking gas. And then that evolved to US-sourced gas. 4 5 And I think it's not evolved to all gas not purchased 6 under the primary gas contract by Centra? 7 MR. GREG BARNLUND: I think that's... MR. BOB PETERS: Plus the delivered 8 service? 9 10 MS. LORI STEWART: With that 11 clarification, yes. 12 MR. BOB PETERS: Ms. Stewart, the --13 the peaking delivered service is still supplemental 14 gas? 15 MS. LORI STEWART: That's correct. 16 MR. BOB PETERS: But I don't want to go 17 back to the supply stacks, but the -- just the 18 delivered service is still -- is now called primary ga 19 -- is still called -- considered primary gas? 20 MS. LORI STEWART: Yes. We refer to it 21 as primary gas transported by others. 22 23 (BRIEF PAUSE) 24 25 MR. BOB PETERS: And, Mr. Barnlund, if

425 the portfolio before the Board is as flexible as Centra 1 maintains, it is possible that Centra could increase 2 the percentage of gas it purchases in the United 3 States? 4 5 MR. GREG BARNLUND: Yes. 6 MR. BOB PETERS: If it did that, that could alter the ratio of what customer receives as 7 primary gas and what a customer receives as 8 supplemental gas? 9 10 MR. GREG BARNLUND: Yes, that's 11 correct. 12 MR. BOB PETERS: And that could have a 13 financial implication on the gas brokers who are providing only the primary gas? 14 15 MR. GREG BARNLUND: It could have an 16 impact, yes. 17 MR. BOB PETERS: And so this issue is 18 one (1) that Centra is now certainly attuned to, 19 correct? 20 MR. GREG BARNLUND: Yes, that's 21 correct. 22 MR. BOB PETERS: And is Centra 23 proposing any change in the percentage of primary and 24 supplemental gas at least in the short term? 25 MR. GREG BARNLUND: I -- I would say

426 not as a result of the portfolio in the short term. 1 We would, on an annual basis, as a usual matter of course, 2 reforecast those percentages to be adjusted and reset 3 for November 1 of each year. And that's based on just 4 5 overall operational considerations that we would be 6 dealing with on a -- on a routine basis. 7 MR. BOB PETERS: Does that answer, Mr. Barnlund, imply that the ratio could change somewhat 8 9 dramatically? 10 MR. GREG BARNLUND: Well, I don't think so, in that I think we really wouldn't see the effects 11 12 of -- of the new portfolio until probably November 1 of 13 2013 at the earliest. 14 MR. BOB PETERS: And before that time 15 there will be, as I heard from perhaps you or Mr. 16 Warden earlier, that Centra will be filing its general 17 rate application, which would include its cost of gas 18 proposal? 19 MR. GREG BARNLUND: Yes, sir. 20 21 (BRIEF PAUSE) 22 23 MR. BOB PETERS: Mr. Chairman, I'd like to thank the witness panel -- Mr. Warden, Mr. Barnlund, 24 25 Mr. Kostick, Ms. Stewart, and Mr. Sanderson -- for

their answers to my questions. Those do complete my 1 questions. Although if I might, I -- I have in my 2 notes here that Mr. Willie Derksen is noticeably absent 3 form the Centra wis -- witness panel and support team. 4 5 And it's my understanding that after a distinguished career with Centra Gas and Manitoba 6 7 Hydro, Mr. Derksen has retired exactly one and two 8 thirds (1 2/3) business days ago. So I'll take this 9 opportunity on the public record to congratulate Mr. Derksen on his retirement. 10 11 I do want to thank him, I believe on 12 behalf of all, for his exceptional years of service in 13 the public utility regulation. And I can indicate when Mr. Derksen was involved in proceedings before this 14 15 Board and the dozens of times I cross-examined him, I 16 quickly learned that his work was accurate and 17 complete. But more so, he could explain with such 18 eloquence and ease that those -- those concepts that I 19 couldn't understand were suddenly fully understandable, and thanks to him. 20 21 So I take the liberty on behalf of all of us to wish Mr. Derksen the very best as he authors 22 23 his next adventure. So thank you for that. 24 THE CHAIRPERSON: Before we recess, do 25 we have any more questions? I have a question, and it

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1 relates to the term that we've been debating, a der -2 term of the contract, the five (5) years versus seven
3 (7) years.

And I guess the first question that 4 5 popped in my mind is what if -- you know, you explained 6 the reasons why you decided to go with seven (7) years, risk mitigation and so on. I guess for me a natural 7 question was, why not go to ten (10)? If you're -- if 8 9 you're going to get these kind of advantages from 10 extending a term beyond the five (5) years, why not be a true Canadian and go ten (10) years? 11

MR. NEIL KOSTICK: Well, there is certainly an amount of judgment involved. As we've talked about, we were targeting an intermediate term. Ten (10) years might start to fall into the long-term fange, not that that would necessarily disqualify it.

17 We do want to keep options open for 18 bigger things that could potentially unfold. And we've 19 talked a little bit about local storage development and 20 the potential for that. While the portfolio --21 portfolio we have is quite flexible, and we've 22 certainly tried to make that case before you, that the 23 portfolio we are proposing to implement is flexible, 24 there could still be, through the investigation of 25 local storage, and depending on other things happening

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1 in the marketplace, you could potentially -- that could 2 potentially -- potentially be an option. And it would 3 take a number of years to -- to put in place if it were 4 economic. A seven (7) year term doesn't preclude that 5 as a possibility.

6 So that's, in part, some of the -- some of the rationale for not going even longer in the event 7 that that did prove to be an economic and -- and 8 technically viable option. But to us it -- it 9 10 basically boiled down to taking a balanced approach to the -- to the whole matter. Short-term, given the 11 12 attractive rates and services that we got, for us 13 didn't make sense. An intermediate term made sense, 14 which is what we -- what we're -- what we're applying 15 for. And -- and we didn't see necessarily the need to go for something longer than that. But it does boil 16 17 down to judgment, I -- I would agree.

18 THE CHAIRPERSON: And -- and this goes 19 to the discussions you had with the -- the providers, I 20 quess, they -- I got the impression from reading the 21 documentation that they gave you more favourable tolls 22 by extending the term another couple of years. At 23 least that, I think, is what I understood. 24 Would that have been the case as well if 25 you had extended beyond seven (7) years to ten (10)?

1 In other words, would you have received more of a 2 discount if you had extended the terms of that 3 contract?

4 MR. NEIL KOSTICK: I can't really say 5 I think any storage operator has to take for sure. 6 into account factors that, you know, we're not privy to in terms of -- I think that they value a customer like 7 Centra. We were able to secure some proposed very 8 9 attractive rates. I think the storage operator would 10 have to evaluate tradeoffs between securing a valued customer at a, if we can call it, low rates, versus, 11 12 you know, perhaps they don't want to lock in really 13 attractive rates for any longer than seven (7) years. 14 So I -- I really can't say whether we would have gotten 15 better rates for going longer than seven (7) years. 16 THE CHAIRPERSON: That concludes my 17 questions. I propose that we take ten (10) minutes and 18 be back here at -- on my watch it says ten (10) after -19 - ten (10) after 3:00, so twenty (20) after 3:00 back 20 in this room, please. 21 22 --- Upon recessing at 3:09 a.m. 23 --- Upon resuming at 3:21 p.m. 24 25 THE CHAIRPERSON: I believe we're in a

431 position to resume the proceedings. Are we waiting for 1 Mr. Warden or can we proceed -- why don't we proceed. 2 Over to you, Mr. Meronek. 3 4 MR. BRIAN MERONEK: Thank you, Mr. 5 Chairman. I'll ask all my questions of Mr. Warden 6 right now. 7 CROSS-EXAMINATION BY MR. BRIAN MERONEK: 8 9 MR. BRIAN MERONEK: And I might just 10 say that given the complete job that Mr. Peters has done in the erudite questions of the Board, there's not 11 much meat on the bone left but let me nibble at the 12 13 marrow here. And my questions, as my kids are wont to 14 say, will be random because I -- I want to just go over some ground that has been covered already. 15 16 Starting with you, Mr. Kostick, just for clarification. The \$14 million US plus change that's 17 18 sought by Centra in this application is in US dollars, 19 correct? 20 MR. NEIL KOSTICK: Yes. 21 MR. BRIAN MERONEK: And as I understand 22 it, the consumer will not be receiving a bill for the -23 - a firm amount because there'll be some Canadian-US 24 exchange rates involved. 25 MR. NEIL KOSTICK: Yes, that's correct.

MR. BRIAN MERONEK: 1 And -- and obviously there's been no exchange factor involved in -2 - in this process in terms of determining what 3 ultimately the customer is going to pay. 4 5 MR. NEIL KOSTICK: That's correct. 6 MR. BRIAN MERONEK: The -- in terms of FERC and the maximum rates, it's my understanding that 7 -- that the system in the States is somewhat different 8 9 than in Canada in that with respect to TransCanada pipelines there are annual toll applications, or 10 regular toll applications, and whatever is ordained by 11 12 the NEB is what is required to be charged, correct? 13 MR. NEIL KOSTICK: Yes. 14 MR. BRIAN MERONEK: In terms of FERC, 15 however, FERC sets maximum rates, and the -- as long as 16 the -- the rates ultimately determined between the parties is between the minimum and maximum rates, it's 17 18 -- it's really as you've indicated to Mr. Peters, a market-driven consideration. 19 20 MR. NEIL KOSTICK: Largely, yes. 21 MR. BRIAN MERONEK: And as I understand 22 it, with respect to FERC as it relates to ANR, those 23 rates -- those maximum rates were set many years ago. 24 MR. NEIL KOSTICK: With respect to ANR, 25 I believe that's the case, yes.

MR. BRIAN MERONEK: And it's only if 1 someone complains about the rates that there is a 2 potential for an application before FERC, is that 3 correct? 4 5 MS. LORI STEWART: A customer concern 6 about the fairness of the rates might be one (1) driver, but another could be the utility's cost 7 structure changing and, as a result, it needing to go 8 9 before the FERC to request higher rates to cover its 10 costs. 11 MR. BRIAN MERONEK: That's fair enough. 12 I -- I was really trying to get confirmed that FERC 13 doesn't initiate these applications. 14 15 (BRIEF PAUSE) 16 17 MS. LORI STEWART: There have been 18 situations of late where -- where the FERC has 19 initiated actions against pipelines. 20 MR. BRIAN MERONEK: But not with 21 respect to ANR. 22 23 (BRIEF PAUSE) 24 25 MS. LORI STEWART: To the best of my

434 knowledge, Mr. Meronek, not -- not as it relates to ANR 1 Pipeline Company. 2 3 MR. BRIAN MERONEK: With respect to the issue of right of first refusal, or ROFR as it's -- the 4 5 acronym is pronounced -- it sounds like a dog. But 6 just to clarify the -- the ROFR under the present contract is not on the table, correct? 7 8 MR. NEIL KOSTICK: The -- we're not 9 pursuing a ROFR process. 10 MR. BRIAN MERONEK: I'm just harkening back to the term sheet, which seems to dictate -- and I 11 12 -- I don't want to ask a legal question -- dictate the 13 terms between the parties. 14 MR. NEIL KOSTICK: The term sheet does 15 outline the terms between the parties that will 16 ultimately be reflected in the contracts. 17 MR. BRIAN MERONEK: Now if, for some 18 reason, the Board doesn't approve the application as 19 presented, am I correct in -- in suggesting that -that the term sheet is -- is off the table as well? 20 21 MR. NEIL KOSTICK: Given that the term 22 sheet reflects the specific portfolio that we've 23 brought forward, then -- then, yes, I believe that 24 would be the case. 25 MR. BRIAN MERONEK: So does that put

Centra at risk of -- of the -- another party coming 1 along and matching the -- the price or exceeding the 2 price that Centra has negotiated? 3 4 5 (BRIEF PAUSE) 6 7 MR. NEIL KOSTICK: With respect to the rights of first refusal that Centra currently has on 8 9 its current contracts, the ROFR period has elapsed on 10 the Great Lakes summer capacity. And we do not have -currently have ROFR on the Great Lakes winter capacity. 11 But the Great Lakes summer capacity would essentially 12 13 become available to the market. And with respect to 14 ANR, the ROFR period would commence sometime in August. 15 MR. BRIAN MERONEK: So what you're 16 saying from that, to the extent that ROFR is -- has not 17 expired, it would automatically -- it could be --18 automatically be invoked for those contracts where ROFR is still involved? 19 20 MR. NEIL KOSTICK: Yes, if -- if ANR 21 and Centra were not able to reach agreement on 22 something else, then the ROFR period would 23 automatically kick in, essentially. 24 MR. BRIAN MERONEK: So in that case, if 25 someone came along and offered a greater price than

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436 what was negotiated, Centra would have to match it, 1 2 correct? 3 MR. NEIL KOSTICK: Through the ROFR 4 process, yes. Or, the capacity would be lost if we 5 didn't match. 6 MR. BRIAN MERONEK: And where ROFR is expired, then it -- it's just a matter of the best deal 7 that -- that ANR can get from any potential competitors 8 9 of Centra for that storage or transportation? 10 MR. NEIL KOSTICK: Yes. 11 12 (BRIEF PAUSE) 13 14 MR. BRIAN MERONEK: Now, Ms. -- Ms. 15 Stewart, you were talking to Mr. Peters about the 16 portfolio as being robust, flexible, and diverse. Those were adjectives that -- that we've seen 17 18 throughout the application and certainly repeated in 19 evidence? 20 MS. LORI STEWART: Yes, Centra has used those words in its evidence. 21 22 MR. BRIAN MERONEK: And just for my 23 plebian mind here, what does "robust" mean in terms of 24 Centra's portfolio? 25

1 (BRIEF PAUSE) 2 3 MS. LORI STEWART: What comes to mind first, Mr. Meronek, is the portfolio's ability to 4 5 accommodate a wide range of weather scenarios. 6 MR. BRIAN MERONEK: And "flexibility" 7 relates to what? 8 MS. LORI STEWART: Flexibility from the 9 perspective of having annual storage incorporated as a part of our portfolio now, the flexibility that that 10 11 affords as well as the fle -- flexibility to adjust our 12 purchase strategy and to access a number of liquid 13 supply hubs. 14 MR. BRIAN MERONEK: And "diversity" 15 relates to what? 16 17 (BRIEF PAUSE) 18 19 MS. LORI STEWART: I think the 20 distinction is, in our mind, Mr. Meronek, flexibility 21 is the opportunity to adjust those -- those supply purchases. And "diversity" means the access to those 22 23 different supply hubs. 24 MR. BRIAN MERONEK: Thank you for that. 25 Now, Centra has taken the position -- and there's no

438 reason to doubt it, that under the present contract and 1 suite of services and assets in Centra's portfolio, it 2 is a robust, flexible, and diverse portfolio, correct? 3 4 MS. LORI STEWART: You're speaking 5 about our current portfolio? 6 MR. BRIAN MERONEK: Yes. 7 8 (BRIEF PAUSE) 9 10 MS. LORI STEWART: Yes, I believe that's the case, although to a lesser degree than the 11 12 portfolio that we're proposing. 13 MR. BRIAN MERONEK: And I'll get into 14 that. And the problem is that with respect to the 15 geographical situation where Centra finds itself, and 16 given the weather-driven component, excuse me, of the load, it's a complex mix of -- of assets that need to 17 be incorporated into the portfolio to optimize that 18 19 portfolio for the customers of Centra. Would you agree with that? 20 21 MS. LORI STEWART: I -- in my opinion, 22 other LDC's portfolios are as complex. They're buying 23 at multiple hubs and have various transportation 24 components in their -- in their portfolio. 25 MR. BRIAN MERONEK: I'm not worried

439 about other LDCs right now, Ms. Stewart, just Centra. 1 Would you agree with that statement? 2 3 MS. LORI STEWART: Yes, I would. 4 MR. BRIAN MERONEK: And to the ex -- to 5 the extent that it's complex, Centra has to make 6 certain that it has enough gas flowing to its customers under certain extreme conditions, correct? 7 8 MS. LORI STEWART: Yes, that's correct. 9 MR. BRIAN MERONEK: And the problem 10 that Centra faces is that the -- the arrangements that it makes with respect to transportation and storage 11 12 don't always get used in -- in a year or a season, 13 correct? 14 MS. LORI STEWART: Yes, that's --15 that's the case. 16 MR. BRIAN MERONEK: And in that case --I don't want to use the word "stranded," but there is a 17 cost whether the storage is used, or the transportation 18 19 is used, or not, correct? 20 MS. LORI STEWART: That's correct. 21 MR. BRIAN MERONEK: And what Centra 22 tries to do is ameliorate that by engaging in its 23 capacity management release program, correct? 24 MS. LORI STEWART: Yes, its capacity 25 management program and one (1) set of transactions

under that program are its releases. 1 2 MR. BRIAN MERONEK: And one (1) of the ways that Centra is able to mitigate unused capacity is 3 by way of selling these assets on the secondary market, 4 5 correct? 6 MS. LORI STEWART: Yes, releasing those 7 assets. 8 MR. BRIAN MERONEK: And another way is 9 by way of exchanges or swaps of -- of gas? 10 MS. LORI STEWART: Yes, I would characterize an exchange as the sale of virtual trans -11 12 - transportation, but, in essence, yes. 13 MR. BRIAN MERONEK: And with respect to 14 that exchange, is that becoming less and less viable 15 given the basis differential between summer and winter 16 gas? 17 MS. LORI STEWART: Yes. In the past 18 couple of years our exchange revenues are down as a 19 result of the spreads shrinking. 20 MR. BRIAN MERONEK: So the -- the 21 propitiousness of your capacity release program will be 22 predicated to a larger degree now on your ability to be 23 able to sell in the secondary market. Would that be 24 fair? 25 MS. LORI STEWART: There's so many

factors that feed into spreads. So as long as we 1 recognize that, that there are market conditions, 2 including weather, that can dramatically change the 3 value of exchanges during the winter season on a year-4 5 by-year basis. But, yes, generally I would agree with 6 you. 7 MR. BRIAN MERONEK: And I believe you were asked by Mr. Peters if you could determine what 8 9 the capacity release revenue results were over the last five (5) year average. And I believe you indicated 10 11 it's on the record, correct? Past records. 12 MS. LORI STEWART: Yes, that's correct. 13 We report our capacity management revenues on an annual 14 basis. 15 MR. BRIAN MERONEK: In Tab 4, Attachment 1, on page 61. And that's the ICF report, 16 17 if you could turn to that for a moment. Tab 4, 18 Attachment 1 of the application, yeah, page 61. 19 (BRIEF PAUSE) 20 21 22 MR. BRIAN MERONEK: Sorry, it's the --23 page 61 at the top, not the bottom, page 41 at the 24 bottom. There's a reference that -- that over the five 25 (5) year period ending October 31, 2010, Centra

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generated an annual average of \$6.9 million in revenues 1 from the capacity release program? 2 3 MS. LORI STEWART: I see the reference. 4 Sorry, was there a question? 5 MR. BRIAN MERONEK: Yes, is that -- is 6 that your understanding? 7 MS. LORI STEWART: Subject to check, 8 yes. 9 MR. BRIAN MERONEK: Would you mind 10 checking as to the source of that information and -and providing it to us by way of an undertaking? 11 12 MS. LORI STEWART: I can do that, yes. 13 MR. BRIAN MERONEK: For the purposes of 14 the court reporter, the undertaking is to provide the 15 derivation of the \$6.9 million, five (5) year average 16 capacity release results of Centra as set out in Tab 4, Attachment 1, page 61, at the top. 17 18 19 --- UNDERTAKING NO. 8: Centra to indicate the 20 derivation of the \$6.9 21 million five (5) year 22 average capacity release 23 results of Centra, as set 24 out in Tab 4, Attachment 1, 25 page 61

CONTINUED BY MR. BRIAN MERONEK: 1 2 MR. BRIAN MERONEK: Now, not that anything really turns on -- on this question at this 3 point in time, but -- but it may have some bearing on -4 5 - on Centra going forward. 6 But is there any way that Centra tracks its results on an annual basis in percentage terms of 7 recapturing storage or transportation costs that 8 9 weren't utilized by Centra? 10 11 (BRIEF PAUSE) 12 13 MS. LORI STEWART: At present we track 14 and report the revenues generated as a result of those 15 activities; but, no, we do not measure it in -- in the 16 manner that you just described. 17 MR. BRIAN MERONEK: Is that something 18 that could be done? 19 MS. LORI STEWART: It could be done. 20 In my opinion, there -- there would be little value in 21 that. 22 MR. BRIAN MERONEK: As it presently 23 stands, but on a go-forward basis in trying to measure 24 the proficiency of your -- of Centra's capital release 25 program under a new portfolio, would that not be a use

-- a useful measure? 1 2 MS. LORI STEWART: If we start from the premise that we're putting a suite of assets in place 3 to serve a wide range of weather scenarios, then in any 4 given year the percentage of assets that we use is 5 6 driven primarily by the weather and thus customers' requirements for natural gas in the marketplace. 7 8 So in a year where it's cold and I 9 theoretically use 100 percent of the assets in that 10 year, relative to a warm year where my utilization of the assets will be less than that, and then I turn 11 12 around and -- and move into the market to release those 13 assets to make whatever money we can from them to offset those fixed costs, I -- I'm -- I'm not sure what 14 15 the value of reporting that percentage to this Board would be. 16 17 Well, the value --MR. BRIAN MERONEK: 18 and I -- I don't want to argue the point with you. But 19 in the -- in your scenario if Centra was able to 20 utilize 100 percent because it was a cold year, that's 21 something obviously -- that's an explanation it could 22 give to the Board, correct? 23 MS. LORI STEWART: Well, we do report 24 on an annual basis our load factor, recognizing the 25 activities of our capacity management program. So we

already report that on a regular basis. 1 MR. BRIAN MERONEK: I -- I realize 2 that, but on -- following along on your example, in a 3 warm year if it's, say, 60 percent, presumably you'd 4 have an explanation to the Board that would indicate in 5 6 part that it was because of warm weather, correct? Yes. Typically we 7 MS. LORI STEWART: would provide that type of rationale in our annual cost 8 9 of gas proceeding. 10 MR. BRIAN MERONEK: But it -- it may 11 also bear on the issue of the extent to which Centra 12 was able to effect its capacity release program, would it not? 13 14 15 (BRIEF PAUSE) 16 17 MS. LORI STEWART: I can assure the 18 Board that when we are in a situation where we have 19 excess assets, we, on a very regular basis, take those assets to market to -- to secure dollars to offset the 20 fixed costs of those arrangements. 21 22 MR. BRIAN MERONEK: But --23 MS. LORI STEWART: And -- I -- I'm --24 I'm looking -- I'm seeking to understand your 25 perspective, Mr. Meronek, but I think that there are --

there -- there is such a multitude of factors that 1 drive the value that we derive from the release of our 2 assets that I -- I am questioning whether or not that 3 would be of value to the Board. 4 5 MR. BRIAN MERONEK: That may be for 6 others to determine. But are you saying then that there's no way to measure the performance of the 7 capacity release program, such that the Board could 8 9 take comfort that Centra is doing the best job 10 possible? 11 MS. LORI STEWART: At present the 12 measure that is used is the five (5) year rolling 13 average of the revenues earned by virtue of the 14 capacity management program. And I -- we've been 15 around -- we've been around this issue for some time. 16 And to date, that is the only measure that has been 17 agreed to. 18 MR. BRIAN MERONEK: So in the future, 19 you're saying that any performance measure that Centra might want to use to determine how well it's doing in 20 21 its por -- new portfolio arrangement is going to be 22 predicated simply -- not simply, but exclusively on how 23 much capacity release revenue is generated in any given 24 year? 25 Mr. Meronek, this MR. VINCE WARDEN:

447 has been an issue we've struggled with for a number of 1 years, as to -- to measure whether or not we're getting 2 the maximum revenues out of our capacity management 3 4 program. 5 I think, after discussing about it --6 this issue for a number of years, we've concluded that really the five (5) year average is -- is as good a 7 benchmark as we're going to get. 8 9 It gives the Board some comfort that 10 we're -- the revenues we get in any one (1) year is aligned with what we've been getting in the past. As 11 12 Ms. Stewart indicated, the -- the amount of those 13 revenues in any given year is so dependent on weather, 14 not only in -- in the market we serve, but in the 15 markets that we're selling into. 16 So, you know, it wouldn't be a simple matter of saying, Okay, we're -- we're going to match 17 18 it up with degree days in the Centra service 19 jurisdiction and -- and make some kind of a benchmark 20 comparison based on degree days, because, you know, the 21 weather could be totally different in the market that 22 we're selling into. 23 So it is a difficult one (1). We -- we 24 have the portfolio of assets that we think are optimum 25 to serve the Manitoba market. And when conditions

present themselves, we'll -- we'll dispose of some of 1 those assets to the extent that we can to recover some 2 of those costs that we incur. 3 MR. BRIAN MERONEK: And -- and without 4 5 being pejorative, I'm just trying to get a handle on 6 this. The Board and the Inter -- and the Intervenors will have to accept that, that you've -- that Centra 7 has done the best job it can under the circumstances to 8 9 recover un -- unutilized capacity. 10 MR. BRENT SANDERSON: I think I'd just 11 like to clarify. I don't believe it's Centra would be 12 in agreement that the five (5) year average of capacity 13 management revenues was ever viewed as a performance 14 benchmark. 15 It is simply an amount, a credit, that 16 is given to customers in their rates prior to the 17 realization of any of those capacity management 18 activities. And throughout history, we have been very 19 cautious about doing that for the reason that those 20 revenues are so uncertain, given the fact that they're 21 determined largely as a result of the market demand that our customers have that determines the amount of 22 23 excess assets available for remarketing. 24 And the revenues, or the portion of 25 those unutilized assets whose costs you can recover,

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1 you can only recover what the market will bear. So we 2 wouldn't characterize it as a benchmark. It's a credit 3 that is included in the customers' rates before the 4 fact.

5 And we've always cautioned that there is 6 no necessary linkage between the historical five (5) 7 year average of those capacity management revenues and 8 what we may realize in the year relating to which that 9 credit has been applied before the fact to customers' 10 rates.

11 MR. BRIAN MERONEK: Thank you for that. 12 Going forward then, if -- and this bears on the 13 question of -- of whether or not Centra is going to go 14 out to the marketplace in an RFP to have a third-party 15 asset manager manage some or all of Centra's assets. 16 I believe that you -- you indicated, Ms. 17 Stewart, that you -- you'd need a year or two (2) to 18 determine Centra's performance level under the new 19 portfolio to -- to have some kind of measure, correct? 20 MS. LORI STEWART: It's as much related 21 to operating experience, so it would be difficult for 22 me to assess someone else's performance in managing 23 those assets if I don't have any operating experience, 24 for example, at a new point like Joliet. 25 MR. BRIAN MERONEK: No, I appreciate

1 that. It's -- it's a good point. So you'll want to 2 get some history to be able to determine whether, if an 3 RFP goes out, a potential counter-party can do better 4 than what Centra in its nascent history can achieve on 5 its own, correct?

6 MS. LORI STEWART: Yes, that's correct, 7 recognizing that in the past when we have evaluated the 8 potential merits of such an arrangement, Centra has 9 concluded that the risks that it would take in turning 10 over its assets, including the commodity in storage, to 11 another entity to manage, that those risks outweigh the 12 benefits of such an arrangement.

13 MR. BRIAN MERONEK: I -- I understand 14 that. And I'm not even going down that path yet. 15 That'll be one (1) my last series of questions. But 16 I'm just trying to get you to confirm that in order to 17 measure your own performance, in order to even go the 18 market to determine whether the market can do better, 19 you'd want a couple of years of history based upon the 20 capacity release revenues that Centra potentially will 21 achieve in a couple of years under the new portfolio? 22 MS. LORI STEWART: That -- that 23 information, it will provide more information than we 24 have today. However, we have to be very cautious in 25 evaluating that information. So in a situation where,

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1 for example, it's been cold the first two (2) years 2 that we've deployed the proposed portfolio and, as a 3 result, we're, to a large extent, fully utilizing the 4 assets that we put in place as a result of cold weather 5 in Manitoba, the capacity management program earnings 6 in those two (2) years would appear to be very low.

7 That makes sense. It's intuitive. And so, in that case, if an asset manager was to come in 8 9 and propose that it could earn a million dollars 10 greater than that, then we just have to understand the assumptions that we're making. So are we going to 11 weather-normalize and on what basis? And that's a very 12 13 difficult -- a very difficult thing to do given the 14 number of variables that are at play in the marketplace 15 as well as the variability of weather.

16 MR. BRIAN MERONEK: I accept that. I'm 17 just trying to follow up on your -- your answers to Mr. 18 Peters about wanting to have some history and that 19 before you even entertain the thought of going out to 20 the marketplace. And that -- that history will be 21 largely predicated upon your capacity to release 22 results under the new portfolio over time. 23 MS. LORI STEWART: Yes, I'm -- I'm not 24 meaning to be picky, but it's actually the capacity 25 management program. And one (1) set of transactions

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that we execute under it are releases. 1 2 MR. BRIAN MERONEK: Now, switching gears for a moment, and -- and while you have the mic, 3 Ms. Stewart, you -- we've talked about the physical 4 5 molecules coming from east to west. And that's a 6 relatively new phenomena? 7 MS. LORI STEWART: Yes, that's correct. 8 MR. BRIAN MERONEK: I think your 9 evidence was that Great Lakes has done it for the last couple of years and TCPL has recently or is about to do 10 11 the same thing? 12 MS. LORI STEWART: Yes, my 13 understanding is that TCPL has recently moved the vol -- moved the molecules from east to west and around the 14 15 horn via the northern Ontario line. 16 MR. BRIAN MERONEK: Now, in that 17 regard, can you opine on what potential implications 18 there are down the road if that becomes a viable and 19 significant use of the pipelines by Great Lakes and TCPL to Centra's portfolio and -- including cost 20 21 implications? 22 23 (BRIEF PAUSE) 24 25 MS. LORI STEWART: The critical path in

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question for Centra is from Emerson back to the load.
And at present, we're not aware of any other entity who
has interest in that path other than TransCanada
titself. And it's interested in that path to preserve
ts operating flexibility. And then, of course, Centra
has an interest in that path, as well.
MR. BRIAN MERONEK: And more than

8 interest, what -- define or describe in more detail 9 what that interest would be and what benefits or 10 detriments may arise out of -- as a result of that 11 switch in flow.

12 MS. LORI STEWART: Well, I think it --13 it depends on the preponderance of that reversal of flow. So that's one (1) factor that we would need to 14 15 be aware of and considering going forward, keeping an eye on, so to speak. And our interest in that path is 16 related to our storage and transportation service 17 arrangements, and as well may relate to a firm 18 19 transportation path from Emerson back to the load, as 20 it relates to bringing in US supplies. 21 MR. BRIAN MERONEK: And -- and right 22 now this is just -- this is a recent unfolding event 23 that has yet to play out in terms that are financially 24 and operationally identifiable by Centra. 25 MS. LORI STEWART: Yes. It's -- it's a

454 fairly recent occurrence and Centra takes some comfort 1 in the immediate term, at least, in that TransCanada 2 did not contain proposed tariff changes related to its 3 storage and transportation service in its current 4 5 restructuring application. However, I certainly cannot 6 speak to TransCanada's intentions after that. 7 MR. BRIAN MERONEK: So it's uncertain at this point in time as to how that bidirectional 8 9 development will unfold and -- and what the financial 10 implications, or operational impli -- implications, are 11 for Centra, won't be known for some time. 12 13 (BRIEF PAUSE) 14 15 MS. LORI STEWART: Yes, I'm -- I'm 16 realizing now that it may be helpful to the Board to understand some of the flow dynamics that are resulting 17 18 in this reversal of flow. So at present, in -- at 19 Parkway, which is a point on the TransCanada system 20 where it intersects with the Union Gas system, there is a constraint there. And that's one (1) of the reasons 21 22 why TransCanada has been contracting for capacity on 23 Great Lakes. And it's one (1) of the reasons that 24 TransCanada finds itself accompanied with the reduction 25 in throughput on the mainline that TransCanada finds

1 itself moving gas on a physical basis thousands of 2 kilometres further than what one (1) would intuitively 3 imagine to be the most economic path.

So there has been a gradual disconnect 4 5 on the TransCanada system between physical flows and 6 what is happening contractually. And that is now being 7 exacerbated by the reduction in throughput on the mainline, because for so long -- and our historical 8 9 experience has been that flows will -- or transactions can be effected through displacement. But if that 10 assumption was predicated on 5 Bcf moving through the 11 12 mainline, today there's only 2 Bcf moving through the 13 mainline, all of a sudden we have a problem. And there 14 have been some creative solutions to try and move 15 around that. So as that bottleneck at Parkway is -- is 16 eliminated in gradual stages, then again that will have an impact. 17

18 So there are a number of things that are 19 impacting this non-traditional -- or non-traditional 20 flows. And we will continue to keep -- keep our eye on 21 all of those factors.

22 MR. BRIAN MERONEK: Thank you for that. 23 Did I hear you right, or correctly, when you indicated 24 that -- that the west, sorry the east to west flow on 25 Great Lakes is of no moment to Centra?

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456 1 MS. LORI STEWART: Is of -- sorry, 2 what? 3 MR. BRIAN MERONEK: No moment? Im --4 no impact? 5 MS. LORI STEWART: I think I was 6 careful to qualify that on a daily basis the pipelines are going to optimize their systems. And on a daily 7 basis, my team doesn't need to be concerned about 8 9 whether or not the flows are moving east to west. But at a more macro level, I -- I absolutely need to be in 10 11 the know about that situation. 12 MR. BRIAN MERONEK: And the extent to 13 which Great West (sic) is utilizing an east-west flow, 14 again it -- it's -- it's an evolutionary process that has yet to be played out in -- in absolute terms as to 15 16 what's going to happen down the road? 17 MS. LORI STEWART: Yes, it's a source 18 of uncertainty, and our -- our proposed Great Lakes 19 contracts remove that uncertainty in that regardless of which direction flows are physically moving on that 20 21 pipeline, we are paying the rates that are included in 22 this proposal. So that's an element of certainty that 23 -- that is provided to us as it relates to the Great 24 Lakes contracts. 25 MR. BRIAN MERONEK: Just moving on to

you, Mr. Barnlund. And I -- I thank you for your 1 answer to Mr. Peters about the important comparison is 2 not the price that Centra currently pays for its US 3 transportation and storage arrangement, but what was --4 what is available when you are renegotiating, correct? 5 6 MR. GREG BARNLUND: Yes, that's 7 correct. 8 MR. BRIAN MERONEK: And you're probably 9 concerned now that I thank you for that answer. 10 MR. GREG BARNLUND: Yes. 11 MR. BRIAN MERONEK: The -- and -- and, 12 for example, if you look at PUB Exhibit Tab 13. 13 MR. GREG BARNLUND: That would be the 14 rates and capacities comparison? 15 MR. BRIAN MERONEK: Yes, Tab 8, Attachment 5 of the application. 16 17 Yes, I have that. MR. GREG BARNLUND: 18 MR. BRIAN MERONEK: And just looking at 19 lines 22 and 23, that's the ANR southwest, I guess it's 20 Oklahoma, and the ANR southeast transportation at 21 Louisiana, that is -- has been deleted from the 22 portfolio. 23 MR. GREG BARNLUND: Yes, sir. 24 MR. BRIAN MERONEK: And those were --25 those were by and large at maximum tariff rates,

correct? At least with respect to the southeast? 1 2 MR. GREG BARNLUND: I would say that the southeast was, but the southwest was not. 3 4 MR. BRIAN MERONEK: And it's -- it's my 5 recollection that over time that these assets were 6 either not utilized or not utilized fully, such that Centra had to -- and did, in fact, engage in capacity 7 release in order to recoup un -- unutilized capacity? 8 9 MR. GREG BARNLUND: I believe that to 10 be the case, but Ms. Stewart may want to weigh in on 11 that. 12 MS. LORI STEWART: Yes, that's correct. 13 MR. BRIAN MERONEK: So that in any event of what -- what transpires, there are -- there 14 are better options currently available to Centra than -15 16 - than renewing those contracts? 17 MR. GREG BARNLUND: I would say that 18 overall, the portfolio that has been established 19 replaces the existing portfolio in that regard. 20 MR. BRIAN MERONEK: Point being that it 21 -- it's of no real consequence to -- to say that the cost is now \$14 million versus \$17 million as 22 23 indicative of a -- of a benefit ultimately to the consumer, in part because of ANR Southwest and 24 25 Southeast was probably not going to be renegotiated

459 1 anyways. 2 Would that be fair? 3 (BRIEF PAUSE) 4 5 6 MS. LORI STEWART: I would suggest that 7 similar to our annual ri -- results related to capacity 8 management, it's of interest, but you have to be very 9 careful in placing weight on those two (2) different 10 numbers. 11 MR. BRIAN MERONEK: Thank you for that. 12 13 (BRIEF PAUSE) 14 15 MR. BRIAN MERONEK: Well, I -- I want 16 to get into a talk -- topic with you, Mr. Sanderson, where angels fear to tread, not that I'm an angel. But 17 18 I -- I want to talk and understand about the future 19 price curve. 20 And as I under -- if you could turn to 21 the application, Tab 7, Schedule 1(a). 22 23 (BRIEF PAUSE) 24 25 MR. BRENT SANDERSON: You're referring

460 to the table of values covering the April 2013 to March 1 of 2014 period? 2 3 MR. BRIAN MERONEK: That's correct. MR. BRENT SANDERSON: 4 I'm there. 5 MR. BRIAN MERONEK: As I understand 6 that series of schedules, they represent the Centra price curves as adjusted by -- Centra price curves and 7 Centra's seasonal price curve adjustments for a five 8 9 (5) year period that was utilized in the modelling -the SENDOUT modelling. 10 11 Is that correct? 12 MR. BRENT SANDERSON: Just taking 13 special pains to note that there's five (5) schedules 14 that depict annual periods individual; but, yes, 15 generally I would agree with that. 16 And when I say -- when we say, Centra's price curves, they're derived from the marketplace. 17 18 MR. BRIAN MERONEK: I was just reading 19 the -- the heading. It said, "Centra Price Curves," but we know they're from the marketplace. And -- and a 20 21 I understand the application, Centra took these price 22 curves and then made some seasonal price curve 23 adjustments on a monthly basis to -- to more replicate 24 reality? 25 MR. BRENT SANDERSON: I -- I don't No.

know if I would describe it that way. We simply took, 1 for the summer period, being the months April through 2 October, and the winter period, the months of November 3 through March, we simply in each case took the 4 5 arithmetic average of the individual monthly prices 6 that you see in the unadjusted price series for the 7 express purpose of overcoming the misleading conclusions that a model like SENDOUT would direct you 8 9 towards, by virtue of its perfect foresight before the fact, by arbitraging rapidly buying and selling gas to 10 exploit monthly price differentials by virtue of its 11 12 perfect foresight of the forthcoming series of prices 13 on a month-to-month basis as well as the perfect 14 foresight of the load that it needs to serve each and 15 every day, which is not a realistic assumption that any 16 utility could pursue in actual practice. 17 MR. BRIAN MERONEK: And -- and the 18 Centra seasonally adjusted price curves are the ones 19 that were inputted into SENDOUT, correct? 20 MR. BRENT SANDERSON: Yes, that's 21 correct. 22 MR. BRIAN MERONEK: And as I read the 23 evidence, these price curves were, as at January 9, 24 2012? 25 MR. BRENT SANDERSON: That's sounds

462 correct, subject to check. 1 2 3 (BRIEF PAUSE) 4 5 MR. BRIAN MERONEK: I'll save you 6 checking. It's page 9 of Tab 7. 7 8 (BRIEF PAUSE) 9 10 MR. BRENT SANDERSON: A hundred percent 11 in agreement, Mr. Meronek. 12 MR. BRIAN MERONEK: I'm going to take 13 that one to the bank. I'm going to go buy a lottery 14 ticket, as a matter of fact. Now, just to -- just to 15 follow the thread here, what Centra did was take these 16 seasonally adjusted price curves. 17 And did it put every schedule into the 18 SENDOUT model to obtain a result? 19 MR. NEIL KOSTICK: Centra used years 1 20 and year 5 of those price groups in the SENDOUT model. 21 MR. BRIAN MERONEK: So that would be on 22 this schedule, schedule -- Tab 7, schedule 1(a), would 23 have been lines 12 to 19, for year 1, correct? 24 MR. NEIL KOSTICK: Yes, that's correct. 25 MR. BRIAN MERONEK: And schedule 1(e),

page 5 of 6, for year 5, lines 12 to 19? 1 2 MR. NEIL KOSTICK: Yes, that's correct. 3 MR. BRIAN MERONEK: Is there any reason that Centra wouldn't have used all of the schedules as 4 5 opposed to just year 1 and year 5? 6 MR. NEIL KOSTICK: Years 1 and 5 appear to represent reasonable bookends of that series of 7 prices, so we felt that was sufficient. 8 9 MR. BRIAN MERONEK: Reasonable 10 bookends. Wouldn't you want to determine an average in order to be more -- replicate more of what's happening 11 12 over the next five (5) years? 13 MR. NEIL KOSTICK: Given that we view 14 years 1 and 5 as bookends, the years in between would 15 produce similar or slightly variable results. But if 16 we look at the model results using years 1 and year 5, 17 that should essentially capture the range of that price 18 variability. 19 MR. BRIAN MERONEK: T -- T believe in 20 answer to a question from Member Lafond, Mr. Sanderson, 21 you indicated that are no seven (7) year price curves. 22 If there were, they wouldn't be very reliable. 23 Is that correct? 24 MR. BRENT SANDERSON: That's not quite 25 what I said. There is price discovery or financial

instruments or futures contracts traded at certain 1 large benchmark hubs, Henry Hub in Louisiana being the 2 basis of the New York mercantile exchange. Natural gas 3 futures contract is a rare example of a futures market 4 5 that trades discreet monthly contracts out as far as 6 ten (10) years, so they do exist. But with the exception of the Henry Hub contract for the major hubs, 7 there is nothing, as a rule, beyond five (5) years. 8 9 AECO is a -- is a perfect example of what I'm talking about where there's nothing traded 10 beyond the near five (5) -- five (5) year period. 11 So 12 we would encounter difficulties in trying to flesh out 13 a series of futures price curves for anything but the 14 Henry Hub point beyond the five (5) year period. 15 MR. BRIAN MERONEK: Not to make too 16 fine a point of it, Mr. Sanderson, but unless I was asleep, you -- you never mentioned anything about the 17 18 Henry Hub as being available, but... 19 MR. BRENT SANDERSON: Subject to 20 checking the transcript, I think my -- the words I used 21 were it becomes very difficult to assemble these series 22 of prices for terms out beyond five (5) years. 23 Implicit in my statement was the details that I just 24 described to the Board. 25 MR. BRIAN MERONEK: And -- and the

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lexicon that's been used as -- for year 5 is -- is a 1 bookend or an outlier. I think Mr. Kostick said 2 bookend for year 5, and I think you said outlier for 3 4 year 5, correct? 5 MR. BRENT SANDERSON: I never used that 6 term, to my knowledge. 7 MR. BRIAN MERONEK: Must have been a different person, a different hearing. In any event, 8 9 year 5 is -- the -- the further you go out, the less 10 reliable these price curves are, correct? 11 MR. BRENT SANDERSON: The way I would 12 characterize it is based on the information that was 13 available to the market at the time these prices were taken, it in theory represents the distillation of all 14 15 of that collective knowledge in the market in the form of the prices that buyers and sellers are willing to 16 exchange on January 9th for delivery in that future 17 18 period. 19 Inevitably the actual index prices in 20 those further-out periods as we -- as they become 21 nearby or spot prices are more likely to be different 22 than the prices we see taken five (5) years prior by 23 virtue of the fact that more new information become available to the market, there's more time for market 24 25 circumstances to change.

466 So I wouldn't characterize them as less 1 accurate, but there's -- it's just a fundamental truism 2 that there's more time over a five (5) year period for 3 the underlying fundamentals of the market to change and 4 5 have their result and effect on price than over a one 6 (1) year period. 7 So prices will be more stable futures relative to spot over a one (1) year period on average 8 9 than over a longer-term horizon - five (5) years, for 10 example. 11 MR. BRIAN MERONEK: Again I don't want 12 to put words in your mouth because I -- obviously I'm -13 - I'm zero for two (2) here. But I think you said that 14 as of last Friday the forecast of future price curve 15 five (5) year averages was three dollars and forty 16 cents (\$3.40) per GJ? 17 MR. BRENT SANDERSON: The arithmetic 18 average of the five (5) year strip of futures prices at 19 the AECO Hub in Alberta as of the Friday close was 20 approximately three dollars and forty cents (\$3.40) a 21 gigajoule Canadian, yes. 22 MR. BRIAN MERONEK: Do you want to --23 can you compare that to what's on Tab 7 in the Schedule 24 1, or not? 25 Yes, I'd be glad MR. BRENT SANDERSON:

467 to compare it. 1 2 MR. BRIAN MERONEK: Could you do that? How does the three-four (34) --3 4 5 (BRIEF PAUSE) 6 7 MR. BRIAN MERONEK: Is -- is that something you can do now on the record? 8 9 MR. BRENT SANDERSON: Absolutely. What 10 -- what -- how -- what would you -- like what observations would you like me to make, one (1) 11 12 relative to the other? 13 MR. BRIAN MERONEK: Well, you're --14 you're saying three dollars and forty cents (\$3.40) per 15 GJ. I just want to know how that compares to schedule 1 that was taken from January 9 of 2012. 16 17 MR. BRENT SANDERSON: I think we had an 18 exchange with the panel members yesterday regarding 19 current price levels relative to January, and I had 20 described in general terms that prices had continued to 21 fall thereafter the taking of these prices --22 settlement prices from the futures market, but that in 23 recent weeks they had been on the rise somewhat. 24 I gave a blanket characterization, not -- I guess, not significantly different today from --25

or, the general -- the general view of the market was 1 not fundamentally different from January. I think it's 2 clear that prices are somewhat lower today than they 3 were in January. 4 5 I guess how you determine the 6 significance of that difference, I guess, is in the eye of the beholder. So they are somewhat lower today. 7 The futures markets are currently trading a forward 8 9 price view that is somewhat lower than in January. 10 MR. BRIAN MERONEK: But as I -- as I 11 understand it the three dollars and forty cents (\$3.40) 12 per GJ that you indicated was a five (5) year average. And what would that compare to on -- on January 9, in 13 terms of schedule 1? 14 15 MR. BRENT SANDERSON: I'm fairly decent at doing mathematical calculations on the fly, but if 16 you'd like that figure, I'll have to take that as an 17 18 undertaking and make sure that it's accurate. 19 MR. BRIAN MERONEK: There's nothing you 20 can point out on the schedule. You have to do some 21 calculations, correct? 22 MR. BRENT SANDERSON: I would have to 23 go work through the math. 24 MR. BRIAN MERONEK: Could you do that, 25 please?

469 1 MR. BRENT SANDERSON: I can. 2 3 --- UNDERTAKING NO. 9: Centra to indicate how three dollars and forty 4 5 cents (\$3.40) per GJ 6 compares to Schedule 1 that 7 was taken from January 9, 2012 8 9 CONTINUED BY MR. BRIAN MERONEK: 10 11 MR. BRIAN MERONEK: But what you can 12 say is that, as we know, the market changes every day, 13 and depending upon the day that is chosen for the price curve, a different result will be -- will result from 14 15 different price curves put into the -- to whatever optimization model is utilized. 16 17 Would that be fair? 18 MR. BRENT SANDERSON: I think the 19 relevant point is not the minute details of the output or the result of the model, depending on whatever day's 20 21 prices you input in the model. I think what is 22 important is the general direction or guidance that 23 that model result gives you. 24 And I think, as Mr. Kostick has covered 25 in great depth, there were significant differences

1 between the level of forward prices assumed in ICF's 2 model runs versus the futures market prices that Centra 3 employed.

And in spite of those fairly sizeable 4 5 differences, which are much greater than the difference 6 in futures prices today versus when we took them on January 9th, the general direction of the guidance 7 given in both cases was very, very similar. 8 9 MR. BRIAN MERONEK: Again, that's another qualitative term. "Directional" means what? 10 When -- when you -- when you're saying the model 11 12 directionally demonstrates something, what -- what is 13 it that you're referring to exactly? 14 MR. BRENT SANDERSON: By way of 15 analogy, I might describe it as, I don't think any 16 member of the panel or Centra would purport that a tool such as SENDOUT can give us such refined guidance as to 17 18 allow us to be confident to contract for storage 19 capacity of 14.625 petajoules per year. 20 I would characterize it more as Mr. Kostick has said, if it comes in around fifteen and a 21 22 half (15 1/2) and you get a petajoule either way, 23 depending on who is doing the analysis and the 24 methodologies that were employed, it's -- that would be 25 the level of specificity that we would impart to the

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1 guidance provided with those models, rather than
2 something as refined as the first example that I gave
3 you.

MR. BRIAN MERONEK: Okay, but the -- I -- I thank you for that. But depending upon the price curve dollar amount inputted, there could be a significant difference in the resulting requirement for st -- storage capacity.

9 Would you agree with that? 10 MR. BRENT SANDERSON: As I said, a 11 comparison of the independent modelling and analysis 12 conducted by both Centra and ICF using completely 13 different tools and a complete different set of a price 14 assum -- price assumptions, the conclusions that we 15 would draw from that is the portfolio that is indicated and is reflected in the one (1) that's before the Board 16 17 now is not highly sensitive to changes in forward price 18 assumptions.

19 MR. BRIAN MERONEK: If I could just end 20 the day on pursuing that at PUB Exhibit 7, Tab 18. Do 21 you have that, sir?

22 MR. BRENT SANDERSON: Yes, I do. 23 MR. BRIAN MERONEK: Okay. If you look 24 at that particular schedule and under "Storage 25 Capacity," and you look over to the ICF curve for year

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472 5 for ANR, you will note nineteen point nine (19.9) in 1 storage capacity? 2 3 MR. BRENT SANDERSON: Yes, I see that. 4 MR. BRIAN MERONEK: And the five (5) 5 year price curve that ICF used was in the eight dollar 6 (\$8) range, is that not correct? 7 MR. BRENT SANDERSON: For the sake of our discussion, why don't we agree for that subject to 8 9 check? It sounds reasonable, in that neighbourhood. 10 MR. BRIAN MERONEK: Yeah, I would just 11 -- sorry, yes, I was just looking at Tab 16. 12 13 (BRIEF PAUSE) 14 15 MR. BRIAN MERONEK: Sorry, I misspoke. 16 It was anywhere from -- it was certainly above six 17 dollars (\$6), up to approximately eight dollars (\$8). 18 MR. BRENT SANDERSON: Depending on the 19 delivery hub, anywhere from six dollars and fifty cents (\$6.50) to -- or approximately eight dollars (\$8), just 20 21 shy of eight dollars (\$8). 22 MR. BRIAN MERONEK: Would that not, in 23 part, reflect on the output in the ICF model in relation to storage capacity need for year 5? 24 25 MR. BRENT SANDERSON: Mr. Kostick has

covered this in his previous testimony. And what 1 you're seeing there in terms of the model driving the 2 optimizer to hold a greater amount of storage in year 5 3 is not a function of the absolute price levels. It's 4 5 more a function of ICF's assumption of very, very large 6 winter-summer price spreads, which, with the perfect foresight of the model in terms of the load it has to 7 meet and knowing with full certainty the flexibility it 8 9 has to pursue arbitrage in exploiting seasonal price spreads, would drive the portfolio model or -- to hold 10 an increased amount of storage to speculatively exploit 11 12 seasonal market price spreads.

And as we had said, not wanting to take anything away from ICF, but we do feel that the winter seas -- winter-summer price spreads reflected in the futures markets are far more consistent with that that's been experienced historically on average.

18 MR. BRIAN MERONEK: Did you ask ICF why 19 it used a forecast other than what you perceived to be 20 the most prudent forecast, that being the five (5) year 21 price curve?

22 MR. BRENT SANDERSON: ICF was employed 23 on Centra's behalf to take an independent approach to 24 this modelling effort. We left it to ICF in their 25 professional judgment as to what was most appropriate

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1 to employ in terms of their modelling techniques and 2 tools, and the prices into which -- that were input 3 into their models.

4 MR. BRIAN MERONEK: With respect, that 5 wasn't my question. My question was did anyone at 6 Centra ask ICF as to why it felt that it -- the -- it's 7 prife cur -- price curve was more prudent than the -- a 8 five (5) year average price curve.

9 MR. BRENT SANDERSON: I don't think 10 that there was ever any claim on ICF's behalf that their price curve would -- they would characterize it 11 12 as more prudent. It was a -- another view, another set 13 of data. And I don't, to my recollection, remember ICF ever claiming it was more prudent, as you would 14 15 characterize it. And nor did Centra challenge them to defend their proprietary product. 16

MR. BRIAN MERONEK: But clearly, you're of the view that a -- a -- the forward price curve is is the best available market intelligence to utilize in this particular exercise? (BRIEF PAUSE) 23

24 MR. BRENT SANDERSON: If I was forced 25 to put money down, in terms of picking amongst the

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various options that I thought were the most sound in 1 terms of making a bet on forward prices, which I am not 2 prepared to do, I will always go with the market. 3 Ι will -- I will trust in the market. 4 5 But I think it's clear the value that 6 was delivered by not forcing our views on ICF and 7 allowing them to choose their own path in their independent modelling effort in order to assure the 8 9 independence of that effort. And I think it gives Centra an additional level of confidence, as we said, 10 as to the robustness of the portfolio before the Board 11 12 in that in spite of us not endeavouring to influence 13 ICF's approach, it was a strong validation of the 14 portfolio that is now before the Board and that we feel 15 is a very good value for customers. 16 MR. BRIAN MERONEK: Well, I won't ask 17 you to undertake to bet any of your wages on -- on any 18 particular price curve. But just maybe be -- before we 19 end the day, Mr. Peters asked -- or -- or got confirmation that TCPL doesn't use in its forecasting a 20 forward price curve. 21 22 Did I get that correct? 23 MS. LORI STEWART: My understanding is 24 that TransCanada does its own forecasting, its own in-25 house forecasting. And so one (1) of the factors I'm

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sure that it does consider is the futures curve. 1 2 MR. BRIAN MERONEK: Was -- did -- did I get the impression -- and if I got a wrong impression 3 please correct me, that you, Mr. Sanderson, were --4 5 were not impressed with TCPL -- or you, Ms. Stewart, 6 were not impressed with TCPL's forecasting because 7 they've been so far out? All I did, to the 8 MR. BRENT SANDERSON: best of my recollection, in an exchange with the Board 9 near the end of the day yesterday was make an 10 observation that TransCanada's proprietary forecast has 11 12 clearly been wrong. 13 MR. BRIAN MERONEK: It's 4:30, Mr. 14 Chairman. It's been a long day and I've run out of 15 forward price curve questions. Maybe we could adjourn? 16 THE CHAIRPERSON: Thank you, Mr. We'll adjourn now and resume the 17 Meronek. 18 deliberations tomorrow morning at 9:30. So have a good 19 evening, everyone. 20 MR. DOUG BEDFORD: Mr. Chairman, with 21 your permission, we have the answer to one (1) 22 undertaking that was given yesterday. I think it will 23 only take us a minute or two (2). And I'll ask Ms. Stewart, with your permission, to enter it into the 24 25 record.

1 THE CHAIRPERSON: Yes, please do. 2 MS. LORI STEWART: This is in response to Undertaking number 2, which was to reconcile the 3 numbers in the graph in pre-ask PUB/CENTRA-1 and the 4 5 information in the table associated with Information 6 Request CAC/CENTRA-17. 7 The storage inventory withdrawal represented on the graph in pre-ask PUB/CENTRA-1 is 4.6 8 9 petajoules. The difference between the storage withdrawal figures reported in pre-ask PUB/CENTRA-1 and 10 11 Information Request CAC/CENTRA-17-E is 2.8 petajoules. 12 This 2.8 petajoules is associated with an out-of-sink 13 storage exchange with a counter-party in the winter of 14 2005/'06 as part of Centra's capacity management 15 program. 16 Storage exchanges are routinely conducted with counter-parties as part of our capacity 17 18 management program. Storage exchanges involve a 19 counter-party delivering gas to the Manitoba delivery area and Centra delivering gas out of its storage 20 21 facility to that counter-party, thus effecting virtual 22 transportation. 23 The storage exchanges are typically 24 conducted on a next-day basis but can also be conducted 25 on a same-day basis. Out-of-sink storage exchanges are

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typically arranged for a longer term and represent 1 deferred repayment of the gas delivered to the Manitoba 2 delivery area. In this circumstance, the counter-party 3 delivered 2.8 PJs to Centra in the winter of 2005/'06. 4 5 And Centra repaid out of its storage inventory 2.8 6 petajoules to the counter-party the following summer. 7 Centra realized incremental capacity management revenues as result of this exchange. Given 8 9 that Centra had a requirement for, and used, the 2.8 petajoule -- petajoules just discussed during the 10 winter of 2005/'06, the table represented in Centra's 11 12 response to Information Request CAC/CENTRA-17-E is the 13 correct depiction of storage withdrawals. That is, Centra used a total of 7.4 petajoules of storage gas 14 15 during the winter of 2005/'06. 16 We have with us an updated pre-ask 17 PUB/CENTRA-1, which now accurately reflects this 18 information. And with your leave, Mr. Chair, Ms. 19 Bercier will distribute the updated graph. 20 MR. BOB PETERS: Mr. Chairman, it would 21 be customary, with the permission and concurrence of 22 counsel, all -- that these undertakings be given an 23 exhibit number. And I'll actively search for my list 24 here. And I believe this would now become Exhibit 25 Centra number 4. I'll look to Mr. Bedford for the

nodding of his head, but we'll mark it as Centra 1 2 Exhibit 4. 3 4 --- EXHIBIT NO. CENTRA-4: Response to Undertaking 2 5 6 MR. BOB PETERS: Mr. Chairman and Board 7 members, it's also customary during the course of the proceedings that when -- when a witness undertakes, or 8 9 a witness panel undertakes, to provide an answer, if -if the hearing is still ongoing an opportunity is 10 generally afforded the party that initially asked the 11 12 question if there's anything further that flows from 13 it. 14 At this point in time, I'm just going to have to re-read Ms. Stewart's answer on the transcript 15 later this evening, but I have no questions at this 16 time. If I do, I will seek permission of the Board to 17 18 ask further questions at that time. But as I 19 understood Ms. Stewart explained the -- the difference that was noted in the materials. And the new chart 20 21 that was provided would replace the chart that I drew 22 the Board's attention to primarily at Tab 7 of the book 23 of documents on page 31. And just have Ms. Stewart 24 confirm at this time that the intention of the Utility 25 is to have Centra Exhibit 4 replace the chart that was

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on page 31 of Board counsel's book of documents. 1 2 MS. LORI STEWART: Yes, that's correct. MR. BRIAN MERONEK: With this caveat, 3 Mr. Chairman, Mr. Peters yesterday suggested that this 4 5 represented my EKG. I'd just like to have an addendum 6 filed. After his cross-examination you can show a flat line. 7 8 9 (PANEL RETIRES) 10 11 THE CHAIRPERSON: Is there any other 12 business? If not, let's adjourn and we'll see each 13 other again tomorrow morning at 9:30. 14 15 --- Upon adjourning at 4:38 p.m. 16 17 Certified correct, 18 19 20 21 22 23 Ms. Cheryl Lavigne 24 25

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