Pupou for /earl P. Wilson on February 21, 2012

CIMFP Exhibit P-00605

Page 1 2 45/2. - Thats for the gifts - I really approud them - Dent want to and an a sour mile - Things have - Calling regarding your invoices gree relatively well. However, - The Board has been concerned regarding the finite and offert report - Volumes 1 and 2 and that a credit should be fortherwing from MHI. - Invoice # 5 shows a total MHZ effort of 53 person-days (December)

( January and February invoices are to come). Total 90 & - We have at least 12 dragts of Volume I and 6 drafts of Volume 2.

- many arrors, musing information and poor report structure
and grammar. October 28, 2011 change or on knowlet The total estimate to \$692, 782.

(laborar + expenses): The bodience attailable following payment of Survairs #4 was \$144, 280. (Agreed that anything beyond this would "be brilled only in consultation, and on the appeared of the PUB Papear Manager." On payment of francis #5 and #6, the balance remaining is \$28,850. - Each week we (Maureau/Som / J) cost the Board = \$16,000 + 487. Duit would to exceed \$750,000. Feet a credit of \$2410 very resemble February will hove approx \$ 800 k. 

## Fred Martin

From:

Fred Martin

Sent:

January-16-12 9:46 AM

To:

Maureen Greene; Sam Banfield

Subject:

FW: Changes to the CPW section(s)

For your information.

From: Paul Wilson [mailto:plwilson@mhi.ca]

Sent: January-13-12 8:44 PM

To: Fred Martin

**Subject:** FW: Changes to the CPW section(s)

Hello Fred, as a result of the conference call with Nalcor on Thursday, Rick Horocholyn has revised the report and we are now in agreement with Nalcor's findings. Rick has outlined the changes made to Volume 2 which I will review this weekend.

For Volume 2, Al Snyder and I completed section 1 through 8 and will continue with 9 through 12 on Monday.

Have a good weekend and stay warm and dry.

Regards, Paul Wilson

From: Horocholyn, Rick [mailto:rhoro@hydro.mb.ca]

**Sent:** January-13-12 1:40 PM

To: Paul Wilson

Cc: 'Mack Kast (mkast@

**Subject:** Changes to the CPW section(s)

Paul, I updated volume 1, Section 7.2 PPA vs COS Approach. The last sentence:

"Final results will be assessed following a review of RFI responses."

has been replaced with:

"Using an 8% interest rate for calculating AFUDC, the CPW using a COS approach is approximately 70m lower than by using the PPA approach, but also results in relatively higher unit energy costs to NLH ratepayers from Muskrat Falls inservice in 2017, to 2028. From 2029 and on, the COS approach has lower rates."

Volume 2 was also updated. The description text and figures related to Table 34 were revised to reflect an Infeed Option CPW of 6.58, instead of the original 5.87 in the COS column, with the resulting gap revised to be 2.23 (70m different than the PPA column). The text description for the COS column in Table 34 now reads:

"Column 2 reflects including all assets on a cost of service basis, including the capital expenditures associated with MF, and AFUDC at 8% (column 1 is unchanged for the Isolated Island Option as this was already an entirely COS-based calculation)."

I updated Figures 23 and 24 (Comparative Annual Costs, and Comparative NLH Rates) to reflect the higher fixed cost (COS option) with the inclusion of AFUDC in the in-service amount for MF, and made a few small wording changes in the paragraph describing these Figures. The last paragraph in Section 12.3 Basis for Discounting Costs, now reads:

7 = 4

#### CIMFP Exhibit P-00605

Page 3

"Nalcor has argued that the PPA approach for MF costing is preferable because the PPA formula ensures that the ratepayer is not overly burdened in the earlier years by a rate shock resulting from the use of the COS methodology. The COS approach front-end loads the capital costs and can only spread them over a smaller energy load that is only 40% of MF's firm energy in 2017. The COS approach allows no recognition for export revenues available from Muskrat Falls capacity in excess of NLH's own requirements. Also since the MF plant is not owned by NLH, it is consistent for NLH to treat power supplied from this facility no differently than power that is supplied by other independent providers, which is purchased under PPAs. "

The bold-face text in the above paragraph is used in this email only, to mark the new wording I've added. (not visible if you read this email in plain text mode)

Rick

# Telecoference condition Nulcar/P. Page 4 & R. Horocholy

Phase pearle the spreadsheet model used andreferenced
in response to PUB. Halor-46. When? Het prepared!
4 - 0
GB/PH/SG/AD RH/AS/PW FM.
AD notherie - comparable to P.4 % IRR
R4 - trest mt as any other esset fired costs/65 m
R4 - treat mt as any other esset fixed costs /65 m
AD possible ex 8.4°2 over fich muchinant
AD - possible ex 8.4°2 over fiche weekment ADUDC
Full const. peniel - capetulary. Acooc @ 5.4 2
2.9 B. #790 muli (nominal)
# 2.9 B. # 780 M W. ( nomind )  # 3.65 Ruin: no sumi evet.
Present Vulue love = 500 million
Morr: ( Sounds Debu the mie was wientifuid and
MOTE: (Sounds Delse the mie was adaptifued and resolved in Daler's favour - & 10 mins)

#### **Fred Martin**

From:

Paul Wilson [plwilson@mhi.ca]

Sent:

January-10-12 2:06 PM

To:

Fred Martin

Cc:

Mack Kast (mkast@

; Rick Horocholyn (rhoro@mhi.mb.ca); Allen Snyder

(amsnyder@

Subject:

RFI on COS calculations

Hi Fred, I discussed this item with Rick this morning and he felt that there would be little gained from having a conversation with Nalcor unless they disclosed their spreadsheet model used to calculate the results from RFI PUB-Nalcor-46. With the model, Rick could examine how Nalcor performed the calculation and thus determine what is different in the MHI analysis. Rick would then be in a position to ask informed questions of Nalcor.

A new RFI should be asked as follows:

"In PUB-Nalcor-46, Muskrat Falls cost of power in the first year is \$214/MWh when a full cost of service model is used. Please provide this spreadsheet model that was used to determine this result."

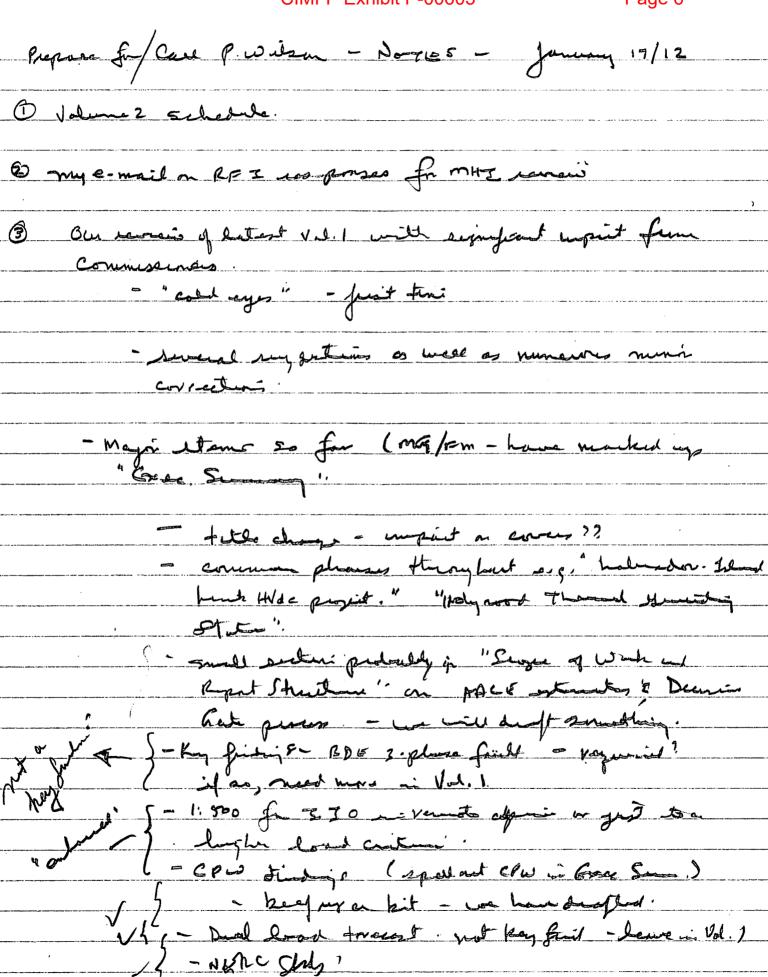
Please note, any telephone conversation between Rick and Nalcor would have to happen before this Friday as Rick is out of country for two weeks, and then unavailable the week following.

#### Regards,

### Paul Wilson, P. Eng.

Managing Director, Subsidiary Operations Manitoba Hydro International Ltd. 211 Commerce Drive Winnipeg, MB R3P 1A3 Canada

P: +1 204 989-1271 F: +1 204 475-7745 M: +1 204 510-1271



flying to winning tomovous afternoon - in your office wednesday morning. - Quanting Sat., is okay?

will e-mail marked up version of Vol. 1 towarow Reliability sestion is too long and too

Complex.

- separate m Vol. 1 (wheet) and Val. 2 (chyf)

- other items of description Vol. 2.

- status / schelule for Vol. 2.

- con we have a dreft by next Saturday for. 7

or Manday, fundany 9? - needs to be in good

shape! (could wont to gam. 13 if in good

shape!)

- descris items required for DG3 - may wish to milude in Exce Summy and/or Vol. 1 Conclusion.

- dissussit with someone on relability - postantally perhability analyses - popur in layuren terms would be very helpful.

- the next dust husto be very good!

Freeminded Intals helatricly chose to the office - Clarin from.

I wenther conditions - dress cale - etc

- status of RVI log.

· posible presentation to Board?

-

points for discussion with P. Wilson on latest dieft of MHI report - Dec. 29/11

- somewhat ketter brut still significant changes required.

   items accepted before now delated and
  replaced with other items not acceptable
  - bose suggestions for edito/modifications ignored (or not accepted without discussio).
  - logical order of sections has been fixed.
  - Condissions sestion of Gerentinic Summany meets significant abouts - Nationic work avends generally in accordance with standard utility positions, Invener,
    - priming.
    - Hde line loading culture.
    - ac itaget studies
    - JERC standards
    - studly general.

- issues and remedies!

- had Forecast changed was better before
- Relieveling section for two complicated neither Some nor I understand spendicilly what is keing done by Dalen - how it differs from what should be done - and the potential significance of this same - "Majo gap"

Peopure for/cal P. wise on COS sensitivity assessment, etc

- Meuroon suggests the following stops Fred to Confun with P. Wilen / R. Horoclobyn that we want to fillow up. - we suggest we do.
- Paul confusio with me . I confusio with maureau
- < marken dominer with 7.0'Reidly and class way for Fred to call G. Bornett.
  - for chargistin.
  - Fred notifies Peul who notifier Rich.
    - lish makes the cret and fateres en with a crel/e-mail so results of discussioni.
  - What is status of faul Duft Report?

Jan: 9/12

J. F. Pour for call to P. Wilson December 21, 2011 Paul working Dec. 29530 Up States of Intern Report. Vol. 2 - Probably petween Christmes & New Years "Fried Interni Report" for our right - then Fried

Druft for Board review - then find report for
public posting on our before Jan 27/12, Paul 24/30 13/ Board veguned 25 copies of "Forial Report" - publisher best in 3-ving builer - same as Dater's surminini and Navignit Report. + abdimir version. Down her confunied that the Boards Report is due by March 31/12 - no further extension:

- Board is rarrawing this to determine how it can be admind given MHT's report published for 27/12. It No " Cymies Stamp" is required on the report. It Feeling this that the Report is too glowing of Nation especially in light of some shortness's Statements such as Dolor's good environmental Stewartship and good alignment with Havement's Energy dans not recessing - Det the Board draws Such conducions. Mark and Rich's remain of PDB-86-89 - "rate setting" to be covered in the Report. REI Jag - "au REI responses ravious ?" By four 27 It Acceptance of C. CoRE's richery medding and visults? at full load.

CIMFP Exhibit P-00605 Page 11  Notes for and Descenter 19 2011
- Fried review of RFI log wicheding PUBene CA RFIS but most penticularly MHIs. Don't know.
- States of mHI Find Dreft Report ( Tea. 23/11 ??)
- Update ve Hoverments and in Council ve PUB Capant day March 31/11 and PUB response (see wants)
- Peview Comments on vedualt of 15th 96 pages.
- Descuss melusur of "Reliability Ravino" as Arpenty.
- Review significant comments.
- Discuss status of vedraft of Thermal Section.
- Desuis status of are Apparlicis
- Desseis "kay findigs" perticularly any nursing!
- Restate or petations from PDB, Iswament, Consumer Advocate and Public (military high profile individuals) ve the quality of MHZ's Find Report.

a MUZ Interin Report and Exec - Summy Dot Dec. 2/11 1. Not with Maureen / Sam this oftenan on new draft of Exec. Summing · Maurem didn't read in destail to offer numion Commuts, et .. Suggestion and issues moted in righty to last 3. Extremely donoppointed and concerned with "lock of effort and product to date. - Some mayind improvint but not 4. 'Amalaceuril writing' 5. no respect for our comments!
6. Focus / effort seems to have gone of this project.

resources? - what? - didn't realize Flat oncement RK To were respected to even though I had meeting the # of them are the last comple of weeks 7. no more mino comments - not value addal 8- Can'd believe that the two seming MHI undividing are going on to days vaciture it this critical time. 9. MHI'S reputation is on the line have. 10. Wile not file a report like Flis with the Board. 1. lack of response to suggestions eg, roults I loud forward - weed.
2. clear context in the Cose Summy for lay findings and other 3. schadule - pressur in an to deline I finish draft, quality report for the Commission no Plate than Jan. 15/12 - Juid report for . 31/12

4 states of MHZ's review of Kot responses?

- who reviewed Dalor submission - will the probably be additional RAIC 5. Whis writing the sections

Pout for Desussion with P wilson

Page 12

. . . .

MXX/18 POB. A. 8, 8, 38, 68, 96, 92, 10 ###

11- 5 November /10 } D6-2 | November /10 }

Pouts for desussin with Problem:

edits to bi-weekly report complete by Dr. 30!

" person hours to date

· Les R.

· Allan S.

· Mack K. - Rick H. - 675 hours. ??

" Envio C. etal - 156 - something good from CESI!

" proposed budget severisis.

· who for presentations the Board Staff

· confum aur faire

confuni hatels

· graphic Serves.

· will 72 person hour contingening, can we eg at maximum of 692, 782. unless something extraordinally new comes up ?? that is loss than \$ 700,000. ?)

- Ray Dog status !

- status of MHI's remain of PUB and CA REIS?

· veures are REIS with Jellwed "comment" heading Assures requiring additional RAIS (no reference):

9, 19, 62,

Answers unsatisfactory -t be advassed - report: 4,5,6,15,21,24,38,39,44,45,59,64,65,77,78,89,95 Answers under review 5 2, 3, 14, 69,

Auswers Junsatisfactory " but "accepted"?

2.72's. Newd met en suk - lefter to 13!

Descussions with P. Wilson - Oct 21/11

Netter from Daler - Heir report will be available ly No. 10/11.

Mach/Rich requesting more susativities a Batch MHI-124 to 134. Board would like to defer any additional sometheties at this the true. MHI-126 to 121 okay. - Confirm with mach/Rich.

MHZ KFI - What about PJB and CA??

- Schedule for next draft report? Trive draft?

October 31? or another intermed braft?

- comments on duft.

\* some vell unite often out.

\* some vell unite often out.

\* overing - two much obtail in booky 
need to cut down to stone of utenst/synfemt

with detailed reports on each review topen

in appendices.

- next be weekly report next Friday - will new budget, etc.

Page 15

ilung with P. Welson Sept. 8/11

Paul Wilson:

POB REIS going over today

- copy to be sent to bui

- forev reference MHI RFI requires.

VV Com of mack's spreadsleet en status and follow up acture required - Is me.

I What is current status and when expected to be complete.

VV Offræ spore port sept. 30.

I Thermal guys response to HTGS. ?

11 States of oryming @ PGZ?

Prel MHI- 101 Reguet 4) RAI 118/116 MHI-44 mmm Westing will C- Cre next week - may be

subject to Nove standards

Oberale schedule - mHI finis report by Oct 31 assuming all RFI responses, etc. an available and acceptable - Tech Conf. probably early farming (Con selvolute sonies)