

(C O P Y)

QUEBEC HYDRO-ELECTRIC COMMISSION

Montreal, Que.

October 1, 1946.

Messrs. Simard & Frere,
AMOS, P.Q.

Dear Sirs:

I wish to confirm herewith the decisions reached at a conference held at your camp on Monday, September 30th.

1. The material which you are hauling, classified as "Emprunt", will in future be measured in the trucks, either by direct measurement, or by weight. Measurement to be made by weight as soon as a scale can be acquired. It is understood, however, that it may be two or three days before the Engineer can make the actual change over from borrow pit measurement to measurement in the trucks.
2. The material mentioned in (1.) that has already been hauled will be measured in the borrow pit.
3. The Engineer will permit the contractor to clear from the right-of-way the timber that has already been cut, by means of a bulldozer.
4. In the case of the right-of-way that has not yet been cut or cleared, the contractor will cut the trees, burn the tops and branches, then clear as in (3.).
5. The contractor is instructed to proceed as rapidly as possible with the proper ditching and draining of the right-of-way.
6. The swamp at about station 50+00 is to be drained, according to plan to be submitted by the Engineer. The contractor is requested to proceed with this work as soon as possible, in order to have effect by the time the remainder of the work reaches the said swamp.
7. With regard to the contractor's request that an allowance be made below the actual grade line, in the case of "Excavation 1st Class", it was decided that this request cannot be granted.

8. The contractor requested that he be allowed to build the road to its full width immediately. It was pointed out that such was the intention of the Engineer, and that the only place where the Engineer had instructed the contractor to maintain a width less than the final width was near the first Culvert, where the Engineer had instructed the contractor to maintain, temporarily, a width 2 ft. narrower on one side only, in view of the possibility of future rip-rap requirements.
9. In the case of blasted rock that has been blown clear of the right-of-way, if the contractor has been instructed to use said rock for fill, the Engineer may require the replacement of same by other material, at the contractor's expense. But the Engineer may waive this replacement in cases where he decides that the contractor has not used an excessive quantity of dynamite.
10. Stumps etc. that have been left on the right-of-way by the previous clearing contractor are to be removed from the right-of-way, and payment will be made as "clearing." If a substantial amount of earth has to be removed in performing the above, payment will be made under the item of "Deblais de rebut".

Yours very truly,

(sgd) C. G. Kingsmill

C. G. Kingsmill
Professional Engineer.

CGK/jb

October 3, 1946.

Mr. F. G. Lester,
Purchasing Agent,
Hydro-Quebec.


Dear Mr. Lester:

Herewith please find two purchase requisitions
for cement and drift pins that will be required for the
construction of Lake Dozois storage dam.

Will you please give this matter your immediate
attention and oblige,

Yours very truly,

RL:VB


Raymond Latreille
Commissioner.

A. FORTIN

Marchand de bois
Planeur
Transport par eau

::
::
::

Wood Dealer
Planing Mills
Water Transportation

THOMPSON RIVER, Que.

8 octobre 1946

MONSIEUR RAYMOND LATREILLE

HYDRO QUEBEC

107 rue CRAIG MONTREAL

MONSIEUR

Je me suis rendu sur les lieux aux RAPIDES DESOIS. Je serais
pret a couper ce bois au prix de \$55.00 du mille clair de coupe.
Longueur ordinaire 12 a 16 pieds.

Apresent, si vous voulez avoir ca avant que ca gele il faudra
entrer par eau de bonne heure.

Veuillez s'il vous plait me laisser a savoir le plus tot
possible. M. CHAGNON m'a presente votre ingenieur dernièrement.

VOTRE TOUT DEVOUE

ALFRED FORTIN



La Commission des Eaux Courantes de Québec
Nouveau Palais de Justice
Montreal

le 10 octobre 1946.

Monsieur Raymond Latreille, Commissaire,
Commission hydroélectrique de Québec,
107 ouest, rue Craig,
Montréal.

Monsieur,

LAC DOZOIS

J'accuse réception de votre lettre du 8 de ce mois, transmettant copie d'une lettre en date du 1er octobre, adressée à MM. Simard et Frère, d'Amos, par M. C.G. Kingsmill.

Tel que demandé, je vous envoie sous ce pli copie du rapport que j'ai adressé au sous-ministre des Ressources hydrauliques le 27 novembre 1945, donnant le coût probable de l'emmagasinement dans les lacs Victoria et Dozois, pour une retenue de 25 pieds. Ces chiffres, sujets à revision, sont le résultat d'une estimation préliminaire en vue d'établir la différence du coût de l'emmagasinement dans le lac Victoria et dans le lac Dozois.

Votre tout dévoué,

J.C. CHAGNON,
Ingénieur en chef.

JCC/ML

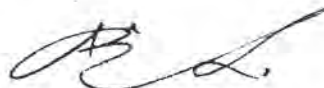
Le 15 octobre 1946.

Monsieur Alfred Fortin,
Thompson River,
Qué.

Monsieur,

J'accuse réception de votre soumission pour
la fourniture d'une certaine quantité de bois requis pour
travaux préliminaires à la construction d'un barrage au
lac Dozois. Cette requête sera soumise à la considéra-
tion de l'Hydro-Québec.

Votre tout dévoué,



Raymond Latreille
Commissaire.

RL:VB

A. FORTIN

Marchand de bois
Planeur
Transport par eau

☪
☪
☪

Wood Dealer
Planing Mills
Water Transportation

THOMPSON RIVER, Que. 15 octobre 1941

M. Raymond Latrielle
Hydra. Quebec

Monsieur je rencontre M. Coussina
à Val-d'Ar il me dit que s'est
quatre cents Mills pds que vous
voulez faire couper sur la rivière
attorne au Rappide Chazois - je
suis prêt vous faire cela au prix
de cinquante piastres du Mills
pds clair de coupe. j'espère avoir
de vos nouvelles par le retour de la
Mall. Bien à vous Alfred Fortin
Val-d'Ar

Le 16 octobre 1946.

Monsieur H.-L. McIlvoy,
Directeur du Personnel.

Cher monsieur,

Monsieur J.-E. Cousineau, ingénieur en charge des relevés préliminaires à l'exécution du projet de réservoir au lac Dozois, est passé au bureau le 23 septembre.

Entre autres choses, il exposa que tous les étudiants formant l'équipe qu'il dirige ayant quitté leur emploi, il lui fallait immédiatement obtenir, aux fins précitées, les services d'un surveillant et d'un dessinateur.

Monsieur Cousineau repartant le même soir pour le lac Dozois, il fallait agir vite. Après consultation avec le Président et les ingénieurs, il fut décidé d'engager immédiatement monsieur Jacques Dury comme dessinateur et de transférer le plus tôt possible monsieur Raymond Leduc de Beauharnois Light, Heat and Power Company au lac Dozois.

Votre tout dévoué,



Raymond Latreille
Commissaire.

P.S. Ci-joint, dûment remplies, les formules d'application de M. Dury.

Le 16 octobre 1946.

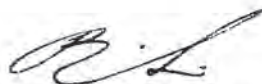
Monsieur J.-C. Chagnon,
Ingénieur en chef,
Commission des Eaux courantes de Québec,
Nouveau Palais de Justice,
Montréal.

LAC DOZOIS

Cher monsieur,

J'accuse réception de votre lettre du
10 octobre et d'une copie du rapport que vous avez adressé
à ce sujet au sous-ministre des Ressources hydrauliques le
27 novembre 1945.

Votre tout dévoué,



Raymond Latreille
Commissaire.

RL:VB

C. A. BLANCHETTE

Commerçant de Bois

AMOS, QUE.

Tél. 122

B. P. 373

Amos, Que., 16 Octobre, 1946

Mr. Cousineau I.C.

Lac Dozois, Que.

Monsieur:-

J'ai marché quelque peu les endroits ou nous pourrions se procurer le bois nécessaire aux besoins de la construction du projet de dam du Lac Dozois.

D'après ce que je peux voir, le bois requis sera assez difficile et éloigné pour être avantageux. Tout de même je pourrai remplir vos besoins soit de bois de sciage ou bois carré pour les prix suivants:-

8 x 8 - 20' et plus	\$110.00
8 x 8 - 12' à 20'	90.00
autres dimensions	80.00

Pour ce qui regarde la coupe je présume que les droits vous seront accordés et qu'aucune charge ne me serait faite.

Si toutefois ma proposition vous intéresserait il me fera plaisir d'avoir vos commentaires et serai disposé à discuter de la chose verbalement.

Votre tout dévoué,

C. A. Blanchette

LAC DOZOIS DEVELOPMENT

ESTIMATE OF QUANTITIES FOR CONSTRUCTION OF DAM AND DYKES

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
1.	Cofferdam, including unwatering	Bid to be made on lump sum basis		
2.	Construction Bridge	do		
3.	Excavation for dam:-			
	Earth	12,000 cu. yds.		
	Rock	3,000 cu. yds		
4.	Concrete in Dam	16,000 cu. yds		
5.	Embankments in Dam:-			
	Rolled earth fill including gravel on slopes	(42,000 cu. yds Gravel (38,000 " " Clay		
	Rip-rap on slopes	9,000 cu. yds. Rip-rap toe fill		
6.	<u>DYKES:</u>			
	<u>No. 1 - Near Dam Site:</u>			
	Foundation Excavation	11,500 cu. yds		
	Rolled Fill	(66,000 cu. yds Gravel (45,000 cu. yds Clay		
	Rip-rap	8,700 cu. yds Rip-rap		
	<u>Lac Young Dyke</u>			
	Foundation Excavation	1,800 cu. yds.		
	Rolled Fill	(5,000 cu. yds Clay (6,500 cu. yds Gravel		
	Rip-Rap	3,100 cu. yds Rip-rap		

**La Commission des Eaux Courantes
de Québec**

Lac Dozois, le 18 octobre 1946.

Monsieur Raymond Latreille, i.c.,
Directeur,
Commission Hydroélectrique de Québec,
107 rue Craig ouest,
MONTREAL, P.Q.

Cher monsieur,

Veillez trouver ci-joint, le
message reçu aujourd'hui de M. C.A. Blanchette,
d'Amos, P.Q., relativement au bois requis pour
le barrage du Lac Dozois.

Quant aux soumissions de MM. Fortin
et Dent, le premier doit vous envoyer la sienne
par la poste et M. Dent doit passer au bureau de
l'Hydro, si ce n'est déjà fait.

Votre tout dévoué,

J. E. Cousineau
J.Emile Cousineau, i.c.
Par: *m. a. 6*

pièce incluse

Beauharnois, Que.,
October 21st. 1946.

MEMORANDUM

A conference was held in Montreal in Chairman Potvin's office on October 18th. 1946, with the following present:

Mr. Robertson	}	Robertson Construction Company
Mr. F. Rousseau		
Mr. R. Latreille	}	Quebec Hydro
Mr. J. W. McCammon		
Mr. M. V. Sauer		
Mr. C. G. Kingsmill	}	Beauharnois Light, Heat & Power Co.
Mr. Charles Miller		

Chairman Potvin attended the meeting later after the contractors had left.

The purpose of the meeting was to discuss preliminary negotiations for a contract for Lac Desrois storage dam construction.

Contract Terms

Mr. Robertson stated that due to the many uncertainties of present day construction work, it was almost impossible to estimate costs in advance, and that his Company would definitely not take the contract on Lac Desrois on a unit price basis. Even in normal times they had lost money on the Shand Dam, and in order to be safe by using unit price bids they would have to bid ridiculously high prices.

In connection with fee, they would have to make their own estimate of the dam cost. Mr. Sauer supplied them with revised quantities and drawings.

Road

Mr. Robertson stated that they had been advised by Mr. O'Connell that the road would not be finished before Dec. 31st. Mr. Latreille replied that this had been carefully gone into, that a very close check was being made on progress, and if necessary a pioneer truck road could be pushed in and access be made there by November 30th. Mr. Robertson inquired if it would be possible to take a shovel in and he was told it would be entirely feasible to walk one in now, using pads on the wet spots.

Memorandum (cont'd.)

Oct. 21st. 1946.

Lumber

Mr. Latreille stated he had three bids for lumber from Dents, Blanchette, and Fortin. The bids were as follows:-

Dents	\$55.00/M (for total requirements)
Blanchette	80.00/M for sawed lumber 110.00/M for 8 x 8
Fortin	55.00/M

In view of the fact that Fortin had not examined the site and that Dent was already located near there with a large sawmill and had all the necessary equipment to start work immediately, it was decided to award the timber contract to Dent. The Commission is to make a contract with him for supplying 200 M of sawed lumber and 200 M of crib timber to start the job, after which the remainder of the contract will be made by the general contractor.

Mr. Rousseau, of the Robertson Company, agreed that in his opinion Dent was the man to be awarded the contract.

Plant Rental

Mr. Sauer brought up the question of making a fixed amount for plant rental. Mr. Robertson stated that this would be agreeable to them provided it was high enough. They were presently working on a job with a fixed amount for plant rental.

Feasibility of Scheme 5

The contractor stated that due to conditions beyond their control that Scheme 5 may be difficult to meet. In regard to schedule, they believe even in normal times it would be difficult to meet, but believed there was a good chance of meeting it. However, they believe that Scheme 5 is the best plan to follow.

Mr. McCammon stated that since the power demand had fallen off in the north country that the Commission may decide to postpone building this dam one year. He requested the contractors to make their estimates, fees and plant rental, after which a further discussion would be held.

Oct. 21st. 1946.

Next Step

After Mr. Potvin returned at 11:30 A.M., and after the contractors had left, he was told the position of the contractors. After considerable discussion it was definitely decided to go ahead with the project in order to have power available should conditions suddenly change in the north country power requirements.

Accordingly, Mr. Potvin recommended that since the contractors would not bid on a unit price basis, that approval in principle of a fixed fee for the contractor be obtained from the Minister of Hydraulic Resources. Later, when the contractors have completed their estimates they will submit the amount they will ask for a fixed fee.

Since the Lac Dozois project not only includes dam construction but involves the Minister of Highways for road raising, with the Minister of Lands & Forests for clearing of the flooded area, and with the Minister of Public Works, he recommended that arrangements for a meeting be made with the Ministers on Monday. At this meeting the whole project will be explained to the Ministers regarding clearing, road raising and bridges, so that the work can be scheduled accordingly by each Department.


Charles Miller

CM/GL

cc: Messrs. R. Latreille
J. W. McCammon
M. V. Sauer
C. G. Kingsmill
A. Dussault

(C O P Y)

Beauharnois, Que.
October 21st, 1946.

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Mr. R. Latreille)	
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Mr. M. V. Sauer)	
Mr. C. G. Kingsmill)	
Mr. Charles Miller)	Beauharnois Light, Heat & Powe Co.

Chairman Potvin attended the meeting later after the contractors had left.

The purpose of the meeting was to discuss preliminary negotiations for a contract for Lac Dozois storage dam construction.

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In connection with fee, they would have to make their own estimate of the dam cost. Mr. Sauer supplied them with revised quantities and drawings.

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about Nov 2

Oct. 21st, 1946.

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PLANT RENTAL

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Oct 21st, 1946.

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Since the Lac Dozois project not only includes dam construction but involves the Minister of Highways for road raising, with the Minister of Lands & Forests for clearing of the flooded area, and with the Minister of Public Works, he recommended that arrangements for a meeting be made with the Ministers on Monday. At this meeting the whole project will be explained to the Ministers regarding clearing, road raising and bridges, so that the work can be scheduled accordingly by each Department.

(Sgd) Charles Miller.

CM/GL

cc: Messrs. A. Dussault
R. Latreille
J. W. McCammon
M. V. Sauer
C. G. Kingsmill


October 22, 1946.

Mr. Charles Miller,
Assistant Superintendent,
Beauharnois Power House,
Beauharnois, Que.

Dear Mr. Miller:

I acknowledge with thanks, and read with interest,
your memorandum of October 17th, on our trip to Lake Dozois and
vicinity in connection with the Government's project to build
a storage dam at the outlet of said Lake.

Yours very truly,



Raymond Latreille
Commissioner.

RL:VB

Le 25 octobre 1946.

Monsieur Alfred Fortin,
Thompson River,
Qué.

Monsieur,

Je regrette de vous aviser que votre
soumission du 8 octobre, pour la fourniture d'une
certaine quantité de bois, n'a pas été acceptée.

Votre tout dévoué,



Raymond Latreille
Commissaire.

RL:VB


Le 25 octobre 1946.

Monsieur C.-A. Blanchette,
Amos,
Qué.

Monsieur,

Je regrette de vous aviser que votre
soumission du 16 octobre, pour la fourniture d'une
certaine quantité de bois, n'a pas été acceptée.

Votre tout dévoué,



Raymond Latreille
Commissaire.

RL:VB

Le 21 octobre 1946.

Monsieur J.-E. Cousineau, i.c.,
La Commission des Eaux courantes de Québec,
a/s Simard Frère et Cie Ltée,
Amos, Qué.

Cher monsieur Cousineau,

J'accuse réception, avec remerciements, de
votre lettre du 18 octobre, me transmettant la soumission
de monsieur C.-A. Blanchette, d'Amos, P.Q., relativement
au bois requis pour le barrage du lac Dozois.

Votre tout dévoué,



Raymond Latreille
Commissaire.

RL:VB

Beauharnois, Que.,
October 28th, 1946.

MEMORANDUM

LAC DOZOIS DAM CONSTRUCTION

A conference was held in President Potvin's office on October 25th with the following present:

Messrs. Robertson, Miles and Rousseau of the Angus Robertson Company.

Messrs. Potvin, McCammon, Latreille, Savoie and Sauer of Quebec Hydro.

Messrs. Kingsmill and Miller of Beauharnois Light, Heat & Power Company.

The purpose of the meeting was to discuss terms of a contract for the Lac Dozois construction. The following describes briefly some of the points discussed.

GENERAL TERMS OF THE CONTRACT

Mr. Robertson of the Angus Robertson Company presented their estimates for Lac Dozois dam construction. Since they were not on the same basis as the Commission's estimates, Messrs. Latreille, Kingsmill and Miller returned to Mr. Latreille's office and made a comparison. A comparison of the overall totals was as follows:

Angus Robertson Ltd.	\$1,582,000.
Quebec Hydro-Electric Commission	<u>1,425,000.</u>
Difference	\$ 157,000.

The above difference was made up of the following:

Camps	\$ 90,000.
Transportation	114,000.
Rentals	<u>105,000</u>
Sub Total	\$ 309,000.
Less Concrete	<u>- 115,000.</u>
Net difference	\$ 194,000.

This difference of \$194,000.00 corresponds to \$157,000.00, the difference in the two estimates being the distribution of general charges.

Oct. 28th, 1946.

Lac Dozois Dam Construction (cont'd)

After some discussion, Mr. Potvin told the contractors that he was well satisfied with the amount of the fee and thought it was fair. He suggested that the engineers of the Construction Company and Quebec Hydro get together and try to make some adjustment in the items of Plant Rental, Transportation and Camps. After this amount was agreed on by both parties and should the Contractors build the storage dams less than this amount, the Commission was willing to recommend a bonus of 25% of the amount that was saved under this fixed amount, as an inducement to keep the cost as low as possible. However, he expected the Construction Company to make a first class job, including good workmanship on the dam.

PLANT RENTAL:

The following is a comparison of the Plant Rentals submitted:

Angus Robertson Ltd.	\$222,000.00
Quebec Hydro	137,000.00

Mr. Miles stated that it was necessary to put a lot of construction equipment on during the short summer, as it was necessary to move on the average of 3,000 yds of material a day. Besides diesel and gas shovels, his Company proposes to use two steam shovels in the borrow pits, which he believed would be satisfactory.

The amount of machine months of tractors and shovels was first analysed and was found to be approximately the same. One of the main differences was that the Angus Robertson Construction Company had figured on a monthly rental of 8% and the Beauharnois Company of 5%.

A considerable amount of discussion took place on Plant Rental. Mr. Sauer suggested that the shovel work was fairly easy digging and there would not be so much wear and tear. Mr. Kingsmill further pointed out that the wear on a shovel is not so much and that with 5% per month return on a year, working only 7 months of this year, and making a generous allowance for repairs, the return was approximately 25%.

Mr. Latreille suggested \$175,000.00 and the Angus Robertson Company came down from \$222,000.00 to \$190,000.00. The meeting was adjourned until after lunch with both parties reconsidering. Mr. Robertson called up Mr. Latreille later on and stated that they had recalculated the rental on the following basis.

Air tools	8%
Pumps	8%
Tractors	8%
Balance including shovels	6%

Oct. 28th, 1946.

Lac Dozois Dam Construction (cont'd)

All of this added up to \$190,000.00 and they felt that they could not bring this figure out any lower without increasing the fee. In the meantime, Mr. Sauer had made some calculations on a different basis and arrived at the \$190,000.00 figure. After further discussions with Mr. Potvin, he approved this figure.

ESTIMATED COST PRICE AND BONUS:

In connection with transportation, the Contractors agreed to reduce their unit cost price 10¢ to 7¢ a ton mile which reduces the transportation item in the Contractors' estimate from \$140,000.00 to \$100,000.00.

In connection with camps, considerable discussion took place and it was believed that a saving could be made. In connection with providing a peak men supply, Mr. Miller pointed out that tents had been successfully used at Lake Manouan dam construction and that they were entirely satisfactory for winter conditions. He also pointed out that it was almost impossible to build all the necessary camps before December 15th, and it might be necessary to resort to some tents to meet the schedule. After considerable discussion, the camp estimate was reduced by \$10,000.00 for the purpose of establishing a standard price on the dam.

Since the quantities will vary with the present engineers' estimate, it was necessary to make an adjustment of the fixed price. After considerable discussion, it was decided to divide the cost of the dam into two parts, one being fixed and the other one variable. The division is as follows:

Fixed amount	\$932,875.00
Variable amount	<u>507,125.00</u>
	\$1,440,000.00

The variable amount is made up of five items at unit prices as follows:

Earth excavation (including stripping)	\$1.00 c.y.
Rock excavation	6.00 "
Concrete	16.50 "
Rolled fill	.73 "
Rock toefill and rip-rap	2.50 "

Oct. 28th, 1946.

Lac Dozois Dam Construction (cont'd)

After the completion of dam construction, the adjustment in the standard price would be made by using the engineers' quantities and the above unit prices. If the contractors' cost price of the construction work were less than this adjusted standard price, the bonus would be taken as 25% of the difference.

(sgd) Charles Miller

CM/GL

cc: Messrs. L. E. Potvin
J. W. McCammon
R. Latreille
J. A. Savoie
M. V. Sauer
C. G. Kingsmill

Beauharnois, Que.,
October 28th. 1946.

MEMORANDUMLAC DOZOIS DAM CONSTRUCTION

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Oct. 28th. 1946.

Lac Dozeis Dam Construction (cont'd.)

After some discussion, Mr. Potvin told the contractors that he was well satisfied with the amount of the fee and thought it was fair. He suggested that the engineers of the Construction Company and Quebec Hydro get together and try to make some adjustment in the items of Plant Rental, Transportation and Camps. After this amount was agreed on by both parties and should the Contractors build the storage dams less than this amount, the Commission was willing to recommend a bonus of 25% of the amount that was saved under this fixed amount, as an inducement to keep the cost as low as possible. However, he expected the Construction Company to make a first class job, including good workmanship on the dam.

PLANT RENTAL:

The following is a comparison of the Plant Rentals submitted:

Angus Robertson Ltd.	\$222,000.00
Quebec Hydro	137,000.00

Mr. Miles stated that it was necessary to put a lot of construction equipment on during the short summer, as it was necessary to move on the average of 3,000 yds. of material a day. Besides diesel and gas shovels, his Company proposes to use two steam shovels in the borrow pits, which he believed would be satisfactory.

The amount of machine months of tractors and shovels was first analysed and was found to be approximately the same. One of the main differences was that the Angus Robertson Construction Company had figured on a monthly rental of 8% and the Beauharnois Company of 5%.

A considerable amount of discussion took place on Plant Rental. Mr. Sauer suggested that the shovel work was fairly easy digging and there would not be so much wear and tear. Mr. Kingsmill further pointed out that the wear on a shovel is not so much and that with 5% per month return on a year, working only 7 months of this year, and making a generous allowance for repairs, the return was approximately 25%.

Mr. Latreille suggested \$175,000.00 and the Angus Robertson Company came down from \$222,000.00 to \$190,000.00. The meeting was adjourned until after lunch with both parties reconsidering. Mr. Robertson called up Mr. Latreille later on and stated that they had recalculated the rental on the following basis:

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Lac Dezeis Dam Construction (cont'd.)

Air tools	8%
Pumps	8%
Tractors	8%
Balance including shovels	6%

All of this added up to \$190,000.00 and they felt that they could not bring this figure out any lower without increasing the fee. In the meantime, Mr. Sauer had made some calculations on a different basis and arrived at the \$190,000.00 figure. After further discussions with Mr. Potvin, he approved this figure.

ESTIMATED COST PRICE AND BONUS:

In connection with transportation, the Contractors agreed to reduce their unit cost price 10¢ to 7½¢ a ton mile which reduces the transportation item in the Contractors' estimate from \$140,000.00 to \$100,000.00.

In connection with camps, considerable discussion took place and it was believed that a saving could be made. In connection with proving a peak men supply, Mr. Miller pointed out that tents had been successfully used at Lake Manouan dam construction and that they were entirely satisfactory for winter conditions. He also pointed out that it was almost impossible to build all the necessary camps before December 15th. and it might be necessary to resort to some tents to meet the schedule. After considerable discussion, the camp estimate was reduced by \$10,000.00 for the purpose of establishing a standard price on the dam.

Since the quantities will vary with the present engineers' estimate, it was necessary to make an adjustment of the fixed price. After considerable discussion, it was decided to divide the cost of the dam into two parts, one being fixed and the other one variable. The division is as follows:

Fixed amount	\$932,875.00
Variable amount	<u>507,125.00</u>
	\$1,440,000.00

The variable amount is made up of five items at unit prices as follows:

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Lac Dozois Dam Construction (cont'd.)

Earth excavation (including stripping)	\$1.00 c.y.
Rock excavation	6.00 "
Concrete	16.50 "
Rolled fill	.73 "
Rock toe fill and rip-rap	2.50 "

After the completion of dam construction, the adjustment in the standard price would be made by using the engineers' quantities and the above unit prices. If the contractors' cost price of the construction work were less than this adjusted standard price, the bonus would be taken as 25% of the difference.



Charles Miller

GM/GL

cc: Messrs. L. E. Potvin
J. W. McCammon
R. Latreille
J. A. Savoie
M. V. Sauer
C. G. Kingsmill