

OMUSHKEGO ISHKOTAYO TIPACHIMOWIN

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A publication of Five Nations Energy Inc. Volume 2 Issue No. 2

Construction Continues...

As this newsletter is going to press, construction activity is continuing and things are beginning to get very busy. A project manager, Mr. Howard Chambers has been hired. (See story on page 4 for details.) Approximately 1600 poles have been ordered and several shipments have been delivered to Moosonee. Most of the poles will be between 65 and 75 feet

long but there will be some that are up to 170 feet long for river crossings.

Substation transformers were ordered back in July due to the extremely long lead time required to make them. The manufacturer custom makes each transformer, and needs at least 6 to 8 months to build them. Each transformer weighs over 40 tons. Compare this to a large excavator that weighs 25 tons. The engineers in designing

this line had to look into the amount of weight that the river crossings can support. The total load, including truck, trailer and transformer will be around 70 tons. Crews will be busy flooding the river crossings to make sure that there is enough ice to support this weight!!

Contracts have been issued for work at the individual substation sites

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Poles being unloaded from the train in Moosonee. Over 1600 poles will be required for the project.

The Omushkego Ishkotayo Tipachimowin is a free publication sponsored by Five Nations Energy Inc. on behalf of the Mushkegowuk Power Companies. The purpose of this publication is to keep the Mushkegowuk Communities as well as other members of the public informed about the Western James Bay Transmission Line Project and other issues associated with energy use.

Five Nations Energy Inc. is a federally incorporated non-profit corporation that was started for the purpose of building and maintaining a 138kv electrical transmission line from Moosonee to Attawapiskat, On. This line will connect three remote Cree communities and will cover a distance of 275kms.

For more information contact Mr. Ed. Chilton, Project Coordinator at 1-705-658-4222.

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Volume 2 Number 2 Fall 2000

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LDC's and You update.

By now everyone has heard of the Kashechewan Power Authority. The KPA is a Local Distribution Company or an LDC. The KPA obtains electricity for their community, and then distributes that electricity to all the customers. The only thing that will change once the transmission line is complete is that instead of using diesel generators, KPA will now receive the electricity through the line.

Some very valuable lessons were learned during the two and a half years that the Kashechewan Power Authority has been in operation. One of the main lessons is that without community support, the LDC will become insolvent and will not be able to supply electricity. Community support means that everyone pays their electricity bill every month.

At this time, the KPA uses these payments to buy diesel fuel for the generators. If the fuel oil seller is not paid by the KPA, he will not deliver any more fuel, and the lights will go out. Once the transmission line is operational, the payments will be used to buy electricity on the open market. Once the transmission line is complete, if the KPA does not collect enough money from community residents to pay for the electricity, the entire community will be without power.

The KPA has been forced to disconnect some customers that refused to pay their bills. On the positive side,

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in the communities, and construction is proceeding, with several community members working with the contractors. Concrete has been poured and the site prepared. Construction materials for these sites was delivered to the communities last winter in large containers. Mobilization of the large equipment required to build the line has begun with equipment being shipped to Moosonee.

The Moose Cree First Nation has completed the clearing of the right of way for the first 60 km of the transmission line, and have another 20 km to do to complete the clearing of their section. Plans are in place for Fort Albany, Kashechewan, and

Attawapiskat to be responsible for clearing areas close to their communities. Portions will be done manually as well as by mechanical means.

One of the main considerations in choosing the method of clearing is the tight schedule. Plans are for construction of the line between Moosonee and Fort Albany to be completed this winter. The first 11kms of construction north of Moosonee can be completed without crossing any major streams and it does not require use of the winter road. Once the ground is frozen solid, it is planned that two crews will be working erecting the poles, starting at approximately

the midpoint between Moosonee and Fort Albany with one crew moving southward and one moving north. As spring approaches, the crews will be closer to the communities with shorter distances to travel to get to the work sites. Discussions are also ongoing regarding planning for the winter road. Due to the extremely long loads, (some of the poles are going to be over 100 feet long) some of the sharp corners will need to be straightened and some of the river and creek crossings improved.

Now the only thing we need to pray for is that Mother Nature provides us with a long cold winter!!

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Introducing..... Mr. Howard Chambers, Project Manager for FNEI

FNEI wishes to announce the appointment of Mr. Howard Chambers as Project Manager for the Omushkego Ishkotayo Transmission Line Project. As project manager, Mr. Chambers will work with SNC Lavalin Services Inc. and PowerTel Utilities Contractors Limited to build the Omushkego Ishkotayo project within the approved scope, schedule and cost parameters.

He will be responsible to oversee all phases and aspects of the project and will ensure strict conformity to the objectives of the project to meet Five Nations Energy's requirements. Another of Mr. Chambers' main responsibilities will be to keep Five Nations Energy Inc.'s Board of Directors, and others as appropriate, informed of the project status through a program of regular reporting. Part of his responsibilities will be to approve payments to SNC Lavalin Inc. as set out in the schedule within the SNC Lavalin Services Inc.'s design build contract. Prior to approving the payments to SNC Lavalin Services Inc., Mr. Chambers will ensure that the work is completed according to the specifications set out within the design build contract.

Mr. Chambers holds a professional affiliation with the Professional Engineers of Ontario and has earned civil engineering degrees from both the University of Waterloo as well as the University of Ottawa. His extensive work experience includes positions with Environment Canada, the Ontario Ministry of Environment, an engineering firm, Indian and Northern Affairs, the Manitoulin and North Shore Tribal Councils, and as Chi-Gaaming Group's founding operations manager.

It was in this capacity that James Bay community members and leaders initially got to know Mr. Chambers. His responsibilities included professional project management for large capital projects in Kashechewan and Attawapiskat as well as project manager for the Asset Condition Reporting System (ACRS) for four of the seven Mushkegowuk Communities.

Mr. Chambers then went on to be the manager at the Manitoulin Island Branch office for First Nation Engineering Services Ltd. He was responsible for overseeing all administrative requirements of the branch office and the project management and design activities for municipal engineering projects. His responsibilities included contract administration and project management for projects in four First Nations with construction values in excess of \$10 million.

FNEI welcomes Mr. Chambers to the project team and looks forward to working closely with him as construction continues and the dream of a safe, unrestricted, reliable source of electricity becomes a reality for the three communities of Fort Albany, Kashechewan, and Attawapiskat.



Mr. Howard Chambers, Project Manager for FNEI.

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only a very few customers had to go through this. Almost everyone paid their electricity bills. It wouldn't have been fair to all the customers that did pay their bills if KPA did not disconnect those that had not paid their bills. Would you pay your electricity bill if you knew your neighbour wasn't paying his or her bill?

With the support of the community, KPA was able to also support some community events as well. Minor hockey, schools, and the youth all benefited by donations and support given out by the KPA. This is one of the many benefits of having local people operate a local company. Without customers paying their electricity bills, KPA would not have been able to give

any donations or support any events in the community.

One question that keeps coming up is who owns the LDC and who owns Five Nations Energy Inc. Very simply, the community owns all of the Kashechewan Power Authority and the KPA owns one third of Five Nations Energy.

The LDC is a non-profit corporation set up by the local Chief and Council. The Chief and Council are the members of the corporation. As members, the Chief and Council decide who sits on the Board of Directors of the LDC. Five Nations Energy Inc. is also a non-profit corporation that is owned by the three Local Distribution Companies. KPA is 1/3 owner of FNEI, as is the Fort Albany

Power Corporation, and the Attawapiskat Power Corporation. The LDC's in Fort Albany and Attawapiskat have not been activated yet, so those First Nations hold 1/3 ownership each of Five Nations Energy Inc. Moose Cree First Nation and New Post First Nation participate in the decision making for FNEI through a seat on the board but they do not own a part of FNEI.

As the transmission line construction nears completion, the LDC's in Fort Albany and Attawapiskat will be activated. Individuals will be required to sit on the board of directors and several staff positions will be created as well. FNEI will keep you informed as this comes closer to being a reality.



Five Nations Energy Inc. Board of Directors left to right: Chief Ignace Gull, Attawapiskat, Chief Mike Metatawabin, Fort Albany, President Ernie T. Sutherland, Deputy Chief Dwight Sutherland, New Post, George Hughie, Kashechewan, and Chief Norm Hardisty, Moose Cree.

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Designing Omushkego Ishkotayo

It is a common sight on most every type of landscape: the steel towers and high-tension wires that transmit much-needed electrical power far and wide. In the North, transmission lines connecting remote communities are not that common, but that is likely to change soon. Plans are underway to build transmission lines with the capacity to provide First Nations communities with efficient and affordable hydro power, replacing the expensive and limited supply of electricity from diesel generators. An efficient, reliable, and unrestricted source of energy brought to the community by the transmission line can also assist economic development while eliminating soil, air and noise pollution.

But what is involved in bringing a transmission line to any community?

In the case of Five Nations Energy Inc.'s Omushkego Ishkotayo, it all began with community support. Community leaders formed Five Na-

President Ernie T. Sutherland wishing former Moose Cree Chief Ernest C. Beck all the best. FNEI regretfully accepted Mr. Beck's resignation from the Board at the recent meetingin Attawapiskat. Newly elected Chief Norm Hardisty was welcomed as the new Board member from Moose Cree.

tions Energy Inc. (FNEI) to develop the project in order to improve their community's standard of living. Once the corporate structure and initial Board of Directors were in place, the technical planning and design of the line began. Together with the communities, the need and eventual consumption of power to be provided by this transmission line was assessed. Studies were conducted to forecast energy consumption over the next 30 to 40-year period by taking into account a complete inventory of the clientele the line will serve, consumption analyses for past years and development projects in the area. These factors influence the conclusions drawn from such a study, as well as determining the impact that a new source of hydroelectric transmission and distribution will have on existing demand and consumption.

The next step involves more study, but of a specialized nature based

on daily and seasonal variations of energy demand and consumption. Another condition that must be considered is the stability of the source of the hydroelectricity. Will it be constant, producing steady and strong output, or will it waver, causing lights to flicker, for example? In our situation, equipment will be installed to smooth out the flow of electricity.

If these studies show that all systems are promising, a decision will be made regarding the voltage and type of wire that will be used for the future transmission line, depending on how far it will have to travel to reach the communities that it will service. It was determined that a line of 138,000

volts was appropriate for the three communities. This line has a maximum capacity of 35 MW which is almost ten times the need of the communities at this time. This capacity provides alot of room to grow.

Based on all the information gathered by this stage of planning, extensive environmental studies are then undertaken to look at the human, social, economic, cultural and environmental effects of building a transmission line in a certain place, and a layout of several possible routes the line might take are drawn.

After a lot of consultation with the people the line will serve, including representatives from the communities, the authorities and regulatory bodies, a decision is made on the best route for the line. One of the most important factors in locating the route of the line was the location of the winter road. Another key factor was certain areas of environmental interest, areas where the absolute least amount of environmental impact could be done.

A factor to be considered in the selection of the transmission line route was the location of swamps. Where swamps could not be avoided there are two ways of installing poles depending on the depth of the swamp. For swamps less than 10 feet deep, the swampy soil is excavated to a depth of 10 feet and then filled with soil, which will support the pole. For swamps that are deeper than 10 feet, a "swamp mat" is installed on the ground surface and attached to the pole. A 'swamp mat' is made up of pressure treated wood timbers, usually 4" x 8" x 10 feet long with 2" x 8" x 3 feet planking. Once

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the mat is installed it will help support the pole. All of the single poles on the line will have three anchors to make sure that the poles do not lean or fall over. The poles are all fully treated to seal the poles and protect the wood from rot or insects for a minimum of 40 years.

With the study phase ended, and the decision made to proceed with construction of the line, it becomes necessary to begin looking at the physical environment, including the topographical features of the terrain and the quality and nature of the soil. Taking into consideration all these combined factors, engineers begin designing the transmission line, including the type of structures to be erected, the location of the towers, and detailed calculations about the height of the hightension wires.

Of importance in the design of the transmission line are the many creek and river crossings. This line will cross about 20 creeks and rivers. In consultation with the local community and the Canadian Coast Guard, these crossings were divided into three categories: 1. 'not navigable' where the minimum clearance of the wire in

summer at high tide is 22 feet, 2. 'small navigable' where the minimum clearance is 35 feet, and 3. 'large navigable' where the minimum clearance

is 48 feet. For an example, the north crossing of the Albany River is the largest river crossing. To maintain a 48 foot clearance, as well as to stay back far enough from the edge of the river to protect the bank from erosion, FNEI will have to use steel poles that are over 170 feet long (150 feet above ground plus 20 feet underground) to support the wires as they cross the 1650 feet between poles.

Working out this detail is intended to guarantee the safety of the human population, vehicles and boats in the area throughout the year, all of which are subject to every type of weather condition. For example, the effect of ice on the wires is a vital consideration in northern climates. Extreme heat is also examined, and the effects of the variation in temperatures to a wire or structure. The most extreme weather situation for which this line is designed is the combination of 1/2 an inch of ice on the wires, 90 km/ h winds, at -18 Celsius. It is not very likely that all three things will happen at the same time, but it is good to know that the line is designed to withstand these conditions if it becomes necessary.

At this time, there is no major maintenance planned for the transmission line before 40 years. Normal routine maintenance will be completed every year including a visual inspection by helicopter and snowmobile with repairs done, if required. Should there be a problem on the line there is a protection system at each community substation. This protection system will show where and what the trouble is, to minimize the time to correct any problems.

The plans that have been drawn up by engineers (SNC Lavalin Inc.) are being used by the construction company (PowerTel) to build the transmission line, with all its associated structures. This will include the installation of the wires to exact specifications, based on the results of careful study and using all the modern scientific and technical expertise which engineering and construction firms now have at their disposal.

For all of you who have been wondering why it is taking so long for poles to be put up, we have attempted to give you some idea of the work that goes on behind the scenes, work that must be done before even one pole gets put into the ground!



These are only a few of the over 1600 poles that will used in the construction of the Omushkego Ishkotayo transmission line. Pole lengths range from 75 feet to over 100 feet long and are treated to resist rot and insects for a minimum of 40 years.

Substation Design and Construction

The main item in the substation is the large transformer. This takes the 138,000 volts off of the transmission line and steps it down to a lower voltage that can be used by the community overhead distribution system.

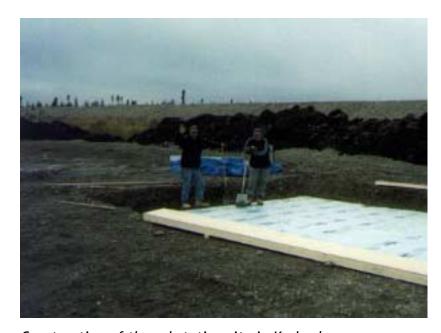
A transformer is made from several large rolls of copper wire wrapped around a metal core. Large transformers operate on the same principle as the transformers that you see hanging on the electricity pole outside your home. The only difference is the size and the voltage at which they operate.

Each of the transformers is filled with oil, which is used to cool the transformer because the electricity going through it generates a lot of heat. At one time transformer manufacturers added to the oil compounds now known as Polychlorinated Biphenyls

or PCB's to help the oil do a better job at cooling the transformer. The practice of adding PCB's was made illegal about 20 years ago once the serious health effects became widely known. There are communities today

that are still suffering the effects of PCB contamination. These new transformers, however, contain no PCB's.

The design of a substation takes into consideration health and safety as well as environmental safety issues. You may notice in the photos of the substation construction that there is some concrete construction on the substation site. Each transformer will sit on a concrete platform that is inside a small concrete basement. This way, in case there is a malfunction or an oil leak, the oil is contained in the basement and can not leak out into the environment. For safety reasons, high fences will be erected around the site with warning signs in both Cree and English. FNEI is very concerned with protecting the public and making sure that no one will get hurt. Electricity is serious business and the high voltage at these substation sites can seriously hurt or kill someone. This newsletter also carries an article on safety issues during construction.



Construction of the substation site in Kashechewan.

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Mushkegowuk Grand Chief Lawrence Martin with Deputy Grand Chief Oliver Wesley at the recent FNEI Board meeting held in Attawapiskat.

PowerTel Profile

PowerTel is the successor company developed from a sole proprietorship created in 1953. PowerTel Utilities Contractors Limited has been providing High Voltage Services to their customers since 1968. During their 32 years of experience in designing, building and maintaining high voltage services, PowerTel has become a leader in transmission line construction in Ontario. Their services include design, installation and maintenance of substations, switching stations, distribution lines, generating systems, fibre-optic cable installations, industrial systems and remote community electrification.

PowerTel's Health & Safety Program and Quality Program has instilled within their staff an attitude of continual improvement in safety, efficiency and productivity. This challenge has helped PowerTel develop long term relationships with clients for all their requirements. They have assisted their clients with obtaining permits, coordinating with power authorities, emergency services, equipment rentals, mixed crew work, live line work, conductor stringing and various other services as have been required.

PowerTel's professional staff works to ensure that every project is completed to meet the highest possible standards. Ongoing training is emphasized which includes E.U.S.A./ E.C.A.O. apprenticeship, tension stringing, working on energized circuits, hydraulics and live line-tree trimming.

PowerTel also holds membership in various associations. These include: Electrical Contractors Association of Northern Ontario - E.C.A.N.O. Electrical Contractors Association of Ontario - E.C.A.O

National Electrical Contractors
Association - N.E.C.A.
Electrical Utility Seferty Association

Electrical Utility Safety Association - E.U.S.A.

Construction Safety Association of Ontario - C.S.A.O

Sudbury Construction Association - S.C.A

At present PowerTel employs 25 fulltime staff. In preparation for the construction of the Omushkego Ishkotayo project, PowerTel has invested a lot of time and effort in ensuring that their equipment is in top



notch shape and will perform at the highest efficiency. Due to the fact that the Omushkego Ishkotayo is being built across muskeg, there is only a very short time during which construction of the transmission line can occur, while the ground is solidly frozen. There is no time for equipment breakdowns or malfunctions.

Pictures here of two pieces of equipment, a boom truck, and a Nodwell rubber tracked vehicle, are shown coming to Moosonee on the train. These are only a few items of the equipment that will be used to construct the line. Elsewhere in this newsletter are photos of poles being offloaded from the train to a truck and pole trailer. Each crew erecting the poles will require an excavator, a bulldozer, several pick up trucks for transporting crews and other flat deck tracked vehicles for transporting supplies and equipment. All in all, this is a large job, one that PowerTel is well equipped to handle.



One of PowerTel's boom trucks arriving in Moosonee.

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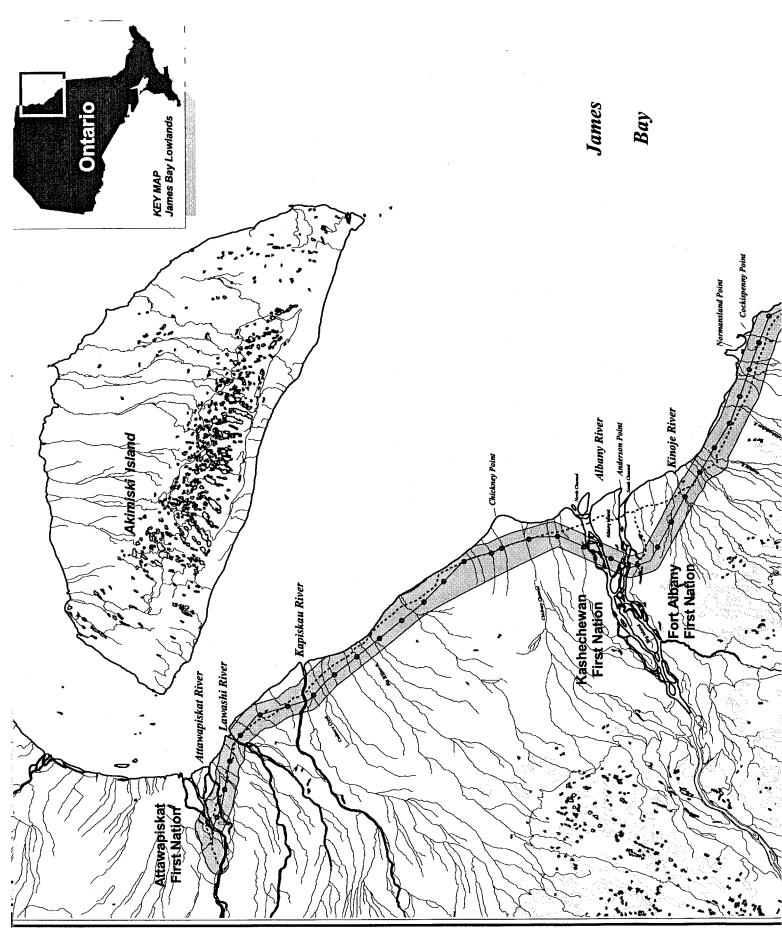
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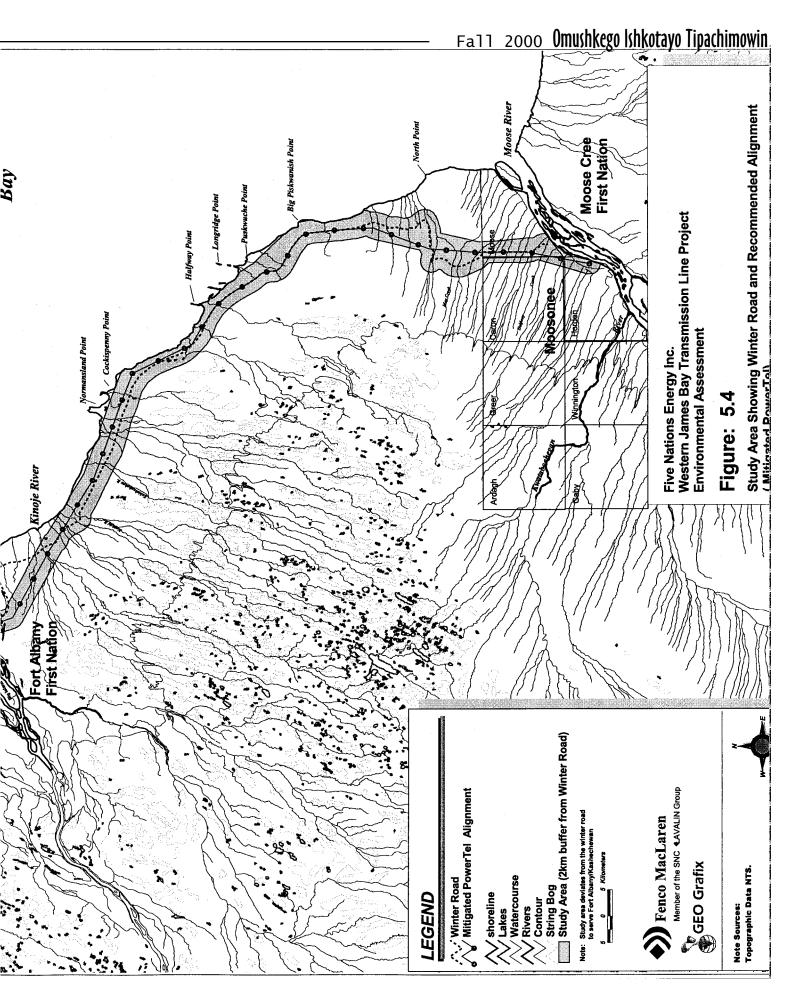
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One of PowerTel's Nodwell tracked vehicles arriving in Moosonee.





Employment Opportunities.

The fixed price contract that Five Nations Energy Inc. signed with SNC-Lavalin specifies that all contractors and sub-contractors are to use community labour, equipment, and other resources as much as possible.

As this newsletter went to press the following employment opportunities through PowerTel have been identified. These positions will be filled by community members provided that qualified individuals are identified and meet PowerTel's requirements.

1. Right-of-Way Clearing
Estimate that there will be 20 positions for a period of 2-3 months.
Possible positions as:
Heavy Equipment Operators
Debris Incineration
Equipment Servicing and Fueling
Small amounts of chainsaw cutting
near water crossings.

There will also be some additional opportunities for manual clearing for the three communities. Contracts for clearing are being discussed as this newsletter goes to press. Please contact your local band office for more information.

2. Structure Positioning

Estimate that there will be 2-4 positions assisting survey crews to mark individual structures (poles) and anchor locations for a period of 2-3 months.

- 3. Delivering Material Estimate that there will be 4 positions available to assist boom truck operators to deliver materials, and for those individuals that are qualified, there is the potential of obtaining boom truck operator training and certificate.
- 4. Framing Structures
 Estimate that there will be 2 positions available to assist two crews assembling individual structures on the ground at individual structure locations.
- 5. Installing Structures Estimate that there will be 2 positions available to assist two crews installing individual structures.
- 6. Stringing Conductors
 Estimate that there will be 4-5
 positions available to assist one crew
 stringing, terminating, and clamping
 conductor to the structures.
- 7. Anchoring
 Estimate that there will be 1-2
 positions available to assist one to

two crews installing anchors for structure stability.

Other opportunities include:

• Building trails from the winter road to the powerline right-

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of-way with bulldozers, drags, and graders.

- •Extra work on the winter road.
- Providing rooms and meals for work crews.
- •One mechanic to assist PowerTel mechanics.
- Warehousing material in the communities.

For more information contact Robert Georgekish, FNEI Training and Staffing Coordinator at (705)264-0229.



Attawapiskat First Nation Councillor Greg Koostachin addressing the meeting participants in Attawapiskat.

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Logo Contest Winner!

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Congratulations to Paul Goodwin of



Kashechewan who submitted the winning entry in the \$500 logo

contest. Mr. Goodwin's design was used to create the logo that you see on the cover of this newsletter as well as on all FNEI correspondence, letterhead, business cards, etc. The logo combines the traditional Cree drawing style with modern transmission line construction techniques. Congratulations!



Paul Goodwin with another example of his artwork.

Apprenticeship Update

Five Nations Energy Inc. (FNEI) has been working closely with the Kashechewan Power Authority, PowerTel Utilities Contractors Limited (PowerTel), Mushkegowuk Employment and Training Services, Mamo-Nuskomitiwin, and the Ministry of Education and Training to develop an apprenticeship program that will be successful.

FNEI and the Local Distribution Companies will need trained journeymen both to work on the local distribution system wires in the communities as well as to do scheduled maintenance on the Omushkego Ishkotayo transmission line. PowerTel has committed to working with six individuals, who will be apprenticed as lineworkers during the construction of the Omushkego Ishkotayo Transmission Line.

Kashechewan Power Authority

has selected two individuals to be apprentices, which have been accepted by both PowerTel and the Ministry. As this newsletter was going to press Attawapiskat and Fort Albany were just completing the selection of community members who will be their apprentices.

Apprenticeships have been a traditional way of transferring new skills to an individual. In addition to some time spent in a classroom, apprentices work together with a licensed journeyman. In this way, the apprentice can watch and learn the correct way of doing something. After

observing an action few times, the individual then tries it on his own, with close supervision, and with some advice and direction, learns a new task. During the classroom time, which is usually several weeks per year, theory and other job related skills are taught.

As an apprentice works he or she builds up hours and experience. Each trade has developed a course manual that lists the skills and tasks that an apprentice must learn. Most apprenticeships take four or five years to complete, which is why an individual must be very sure that he or she really wants to work in that particular trade. A strong commitment to the goal of becoming licensed in a trade is very important for someone to succeed.

FNEI wishes the apprentices the best of success!

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David C. Wesley, Plant Operator for Kashechewan Power Authority, preparing himself for his apprenticeship.

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b σ^{\cap} Δ $C \cdot \Delta$ Δ Δ Δ ⊳Γσ[^]Ρ·Δ¹Λ σ[^])Γ(α σ¹α² L·<!- b L'b·<!\ ▷Γσ^ρ·Δ Δ'dU°<! Cb $V_c < CP_b$ $d_s C \rightarrow L^{2}_b \cdot \nabla^2 V_c$ Φ- Φ'C P CNP Φ- ΔC·ΔΦx $d\sigma L Lb \Delta \sigma d' Pb \Lambda^- \Gamma^{\circ} C\Delta$ C·<a> dCb> d·pσ DL× DL Lb Γγ·∇ ·Δ(L9·Δa b β $\triangle A$ A = A ΔS 43<6' ΔG 6' σ 0' $\Delta \sigma \sigma \cdot \Delta$ $\Lambda L \Pi r \cdot \Delta \sigma r$ $\sigma \circ C$ $\triangleright (\bigcup P \cdot \nabla)$ $\rightarrow_{\cup} (\nabla C_{\cup} P \rightarrow I \cdot \nabla)$ $\rightarrow_{\cup} ($ $DSCG\cdot d$ DL $DFG^{P}\cdot \Delta + \Lambda$ Λd Δ 4U Γ 5 ∇ 6 Ω 7 C5 Ω 4C ∇ 7 Ω $\Lambda L \Lambda 9 J^{\lambda}$ b $\Delta^{\vee} \cdot b$ $\Delta b \Gamma \Delta \Gamma^{\vee}$ $\Delta \sigma \rho$ $\Delta \sigma \sigma \cdot \Delta^{\vee}$ ס^C P6T·⟨ן, סער ף סירארע, Δ9 ΛbUΦPΠ, ÞΦΦCT·∇, Γ·Δ-9 ∆S F.œS' 9 ∆S AJULb V<<CFP, △ P·PºF C,C d ∇l VIULP, Dr V>e Jupe, La 4C/ 9.63 6 PC 9.60.4/ 40/ ⟨¬,C <¬,PC,PL, ▷U △P ¬,V- d $\Gamma d^{\vee}b\Gamma C\sigma \cdot d^{\vee} < \cdot bC^{\wedge}b\Gamma^{\vee}x$ Δq Le qC, ρ b Γ LD- Φ L ρ D, $\Delta^{\prime}\Lambda$ b D-o-CbU' 9 Λ^{\prime} <CLb' L, 84.4, × 29- V9 4,C ΔP Δb L5°PbU' b Δ 5 L°9d·d1 σ - ϕ 51 $\mathsf{C} \quad \mathsf{\nabla}\mathsf{JLPO} \circ \quad \mathsf{\nabla}\mathsf{JV} \quad \mathsf{JPO} \cdot \mathsf{C} \cdot \mathsf{\Delta} \quad \mathsf{d}^{\mathsf{D}}\mathsf{b}$ PCV5Px →C° TC) Tr′ ∇ PCVP, C PLbVLPN dic LCD LL $\nabla = 0$ $\Delta = 0$ $\Gamma_{P}\cdot\nabla P<\cdot\nabla$ LUU9 P_{s} $\Delta\cdot\Delta$ Γ TC) TY' 6 PCV5P 6C · \deland <.∇\ LUN9P3* ÞΓ LD\ LU∪·P, $\neg \langle U \land \neg V \rangle$

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Omushkego Ishkotayo Tipachimowin Fall 2000

 $\triangle^{\wedge} A$ Lb b PSC σ - σ P eaC- Δ $P^9 - CJ \cdot \Delta c - \sigma^{\circ}C - b < P \cap \sigma b U^{\circ}$ ⊳∘°CT·∇, ΛbU°PΠ, L ⊲U $\forall d C \sigma \cdot d \setminus d \sigma L \quad D \Gamma \sigma^{\rho} \cdot \Delta b \Lambda^{b} \quad \nabla d$ < \cdot b c b d c b d c b d c ebaidrbup dap b dstal, du (</ad·L' 9 \D\c.\per-\phi\) \D\c^\circ\ $PG^P\cdot\Delta^{\dagger}A^{\dagger}$ $P\cdot\Delta^{\dagger}A^{\dagger}$ $P\cdot\delta^{\dagger}$ $^{\circ}$ LUP $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ Δ $\Gamma\Gamma\cdot\nabla$ Δ δ δ δ δ δ δ δ δ δ dCP^{2} 9.63 6 P^U σ C.65 $\Delta^{2}\Lambda$ 6 $PCG \cdot d PCG \cdot P \cdot \Delta P V$

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aab(co.d) b Po.bad<o/ Pr $4<U^{\prime}$ \Rightarrow_{U} V V V V $\Lambda d < \sigma \cdot 9_{\times} P \hookrightarrow \Lambda' 9 \cdot 6' 6$ $L\sigma < \sigma \cdot 9$ $d^{3}C$ $D\Gamma \sigma^{n}P \cdot \Delta h \Lambda^{n}$ $C^{\prime}D$ $\Delta C \cdot \Delta \sigma$ $\triangleright \Gamma \sigma^{\circ} P \cdot \Delta b \Gamma d$ $C \cdot b$ $9 \cdot b$ ۹ ک۲ م۰۲۵۲۶,× ۲ م۰۹، ۲۵۲۵ DS(G-\d\ 9.6, P F C<-,× **⊲**Ժዮ ৳ ▷\$Ր٩Ր` ▷ΓԺ^ዮ∙∆ >Γσ^Ρ·Δ Δ¾U·ΔγΛ·Δ >ΡL·Δ\ ∇ ▷ऽСС\ ⟨□⟩ ⟨□⟩ □ □ □ □ □ PL_{-}^{0} 9.60 9 LCG.4Px PC <POOP Γ)σ ·bb^{^\} b β αα(·Δ P^9~PbUP ~^C ∇ <<pre>CC^\ $6^{\circ}PP \cdot \Delta a \quad dep \quad b \quad DSP9P' \quad e^{\circ}C$ β <</p> LY·△ 6 G·40° P B FL)-0-CJ/ 9·6³ ·∇Γ ΡΔ·∇² ∇6 ∇²·6 ·∇Γ LTGL, LUMPES, P VACU, G b algoraphics b algoraphics algora464 4<04.00 P 20.00-46 $\cdot < LS \supset C \sigma \cdot d \supset D \sigma^{\rho} \cdot \Delta + \Lambda^{\gamma}$ ·<L\$\forall V\range \capstall \capst



Preparation of the Substation Site in Attawapiskat

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P9 PPL-4/ DP P UV L·Δ)αΓ\ ~στα Δσσ° b $U < \nabla P A \setminus P A \cap P \cap L + A \cap P A$ $\Delta \mathcal{V} \cap \nabla \mathcal{C} \cdot \nabla$, $\neg \sigma \in \nabla \mathcal{A} \cap \mathcal{L} \cdot \nabla \mathcal{A}$ 4 3°CD (aD17P 95CD) ∇6 ∇ N<4L&L Þ\ QAN&. $4C\cdot \nabla^{\sigma}$ $4U_{\lambda}$ $\forall Y \Rightarrow P \Rightarrow V$ \triangle)C· \triangleleft b σ · \triangle · \triangleleft ' $_{\times}$ $_{1}$ b' $_{1}$ $_{2}$ C· \bigcirc 4.44 6 U<45 ₽\ QAnt* C $L\Gamma S = \Delta S - \Delta S$ JCP b P N QP D $\nabla_{\alpha} \Pi q L \cdot Q_{\alpha}$ be $\lambda_{\alpha} \nabla_{\alpha} \Pi q L \cdot Q_{\alpha}$ ∇b b ∇C $<^{\circ}P \cdot C \cdot C \cdot C \cdot C$ \triangle PP PU U<\\Delta \\Phi \\Phi \\\Phi \\Phi \\P a ρ Γιστορ, δευν, ρ P^9GCJ·4G 4G 6 Dr ·AC^9L/ Δρ ρ U<<1.9 ▷Γ√σ∇ρ,*</p> 950.97, Pbf.97, P .9.70.00 $\Delta U = \Delta V = \Delta V$ $\Delta\Delta$ OLPACAL* Δ o^C Þ°P ∧LNY TY∙∇ P $\cdot \Delta \Gamma \Delta d \cdot d \setminus d \cdot \Delta C \cdot \nabla \sigma \Gamma \theta \cdot \Delta c$ σ° C b P DC σ CLd Γ° σ σ Δ 956-97 \\ \text{A} DAL VY AGA FN' 9.60 6 $PL \cdot \nabla L \nabla q \sigma \omega \cdot d$, $\nabla \omega \omega \cdot d$, Δ •ΔΓ•(Γ΄ 6 ΣΓ σ<•ΔΕΒ΄ Δ(•Δσ 6<<0>€<0 ∇ D</p $\Delta \sigma \sigma \cdot d' D' \Delta U \Gamma \cdot d^{\circ} d\sigma P$ 95C·40 \Q\U\Q\ \PL·4\ _ Cb 2.∆266.49<, 2, 2,C V9 σ CF θ - ϕ / θ ∇ DL θ D ϕ / ϕ /C $\Delta C \cdot \Delta \sigma'_{x}$



V5' C'·C 6 6.969Ja-6·d' d·Δσ ΠΛ,C, ÞJ&, ∇C·∇Φ, \triangle 4 \cup 1 \triangle \triangle 1 \cup 1 \triangle 1 \triangle 1 A,C, Φ , Φ , Φ C, Φ Φ - Φ - Φ $\Delta \mathcal{A} \cap \Delta \mathcal{A} \cap \Delta$ a'-9-d\$-(σ -d) $\Delta \sigma \sigma$ -d\ DV'C-L4676° 95642 Δ 4 Ω \cdot Δ $PPL\cdot\Delta\cdot\Delta\sigma^{\circ}$ $\sigma^{\circ}C$ Pd $PPL\cdot\Delta^{\circ}$ $\mathsf{U}\mathsf{A}_{\mathsf{A}}\mathsf{C}_{\mathsf{C}}$ $\mathsf{A}\mathsf{C}_{\mathsf{C}}$ $\mathsf{A}\mathsf{V}\mathsf{C}_{\mathsf{C}}$ ᠘ᢅᠯ᠐᠂᠘᠂᠙ᠵᡉᠣ°᠈ $\forall \sigma L \ \Delta C \cdot \Delta \sigma' \ \Delta \forall U \cdot \Delta$ $PbF\cdot \nabla \cdot \nabla$, T^{σ} $PCCF \cdot P$, $S^{\sigma} \cdot P \cdot P$ bl $\neg \langle U \lor \nabla, \nabla, P \rangle = \neg \langle U \lor \nabla, V \rangle$ >brp, 2,c >brpg d,c $\nabla C \cdot \nabla^2 \Phi_{x} \wedge \nabla \Phi_{x$ PPLPσ, ·∇CVC·Γ, ΔΦ]Φ₀ bl $4<U^{\prime}\nabla^{2}\Phi^{2}$ but PbPP, PbPPPPLba' ·△a·d° Da<7·d' 9 ᠘ᡴ᠒᠃᠘ᠳ᠘᠘᠉᠘ᠳ᠘᠘ ΔC^{b} $\Delta C^$ مر ۱۹۲۹، جعهم, ۲۹ $U\Lambda_{o}(\cdot\Gamma)$ $\Delta \Phi_{b}$ Φ_{o} $\nabla(\cdot\nabla\Phi_{c})$ ρ ዓኒι-ላካ, ኮር。 ላVር。 UΛ،ር·Γ, $\forall \sigma \exists \sigma^{\circ} \ \sigma \forall \sigma^{\circ} \ \Delta \forall U \cdot \Delta \ b^{\circ} \langle \sigma \sigma^{\circ} \rangle$ $\Delta A \cap \Delta A$ ∇^2 ∇^2 ∇^2 ∇^2 ∇^2 ∇^2 ∇^2 $PPL\cdot d'^* \quad d^b \quad D^a \cap \nabla PL\cdot d'$ VC/9, ~ ~ (<< \0\0\0\0\0\0) | 7 ~ ∇°·6 ΛΙCC·L ÞΡL·Δ·Δσσ°_× $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $\Delta VC_{o} U \Lambda_{o} C \cdot \Gamma_{o} \Delta \Phi_{o} \Phi_{o} \Phi_{o}$ Δ C^b¬ \cdot C Δ U· Δ b'<σ σ ° \star $P^{\nu}P^{\nu} \cdot d^{\nu}b\Delta b\sigma^{\nu} \Delta \sigma \sigma \cdot d^{\nu} \Delta \Gamma \cdot d^{\nu}$ ·△aC △A 6 Daalen, d.p. △ Sd- Ja <^P NV'C·L'x A^A 4-6 Pbr.4, VCA9, -J.C ΛΙΟΟΝ Ν΄ ΝΡΙ·Δ·Δσ·Δο, ΛΙ $\triangle \cdot \triangle = \triangle \cdot$ $\Delta \Lambda^{\prime}$ CL9· $\Delta \sigma^{\prime}$ σ^{\prime} C $\Delta \Omega^{\prime}$ $4<14p^{2}$ 4=1 $\Delta C^b \rightarrow C^A \Delta^a U \cdot \Delta b^c \leftarrow C^A P b$

Omushkego Ishkotayo Tipachimowin Fall 2000

DC DL.b9 V.9n.V d<US.Ve. PY LLD-0-LPN △P 4·△¬ PL UT 6 << r > \cdot $4<\sqrt{4}$ $\Delta V = \Delta V \cdot \Delta V$ ▷Γ a¬\σ'/ 4.√a ¬ˆ(√ $\sigma\sigma$ PLCL, d,C d<Ud- ∇ Φ , Pa-0\-0-C\-0\P\ 0^C 9 D\P bVC^{2} $d \cdot p$ $d \cdot p$ $d \cdot p$ $\triangleleft \cdot \nabla_{ }$

LD& VD, PT 8.P, QV P σ_b ᠳ᠋᠘ᢣ᠘ᠵ᠘ᠵ᠘ᠵ᠘ᠵ᠘ᠵ᠘ᠵ᠘ᠵ Δ C \sim 4 Ω 4' Δ σ σ 0 Δ C \sim 4 Ω 1' PC $\Lambda d \cdot d \cdot d \cdot \Delta c \cdot \Delta c \cdot \Delta d \cdot \Delta c \cdot \Delta$ ▷Γ <</p>
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□·b⁻ 4<0.5 C L-5.5 & L PYPUP 40-A V6 9 Dr <u>ᢐ</u>ᢐᢐᢐᡳ᠘ᡚᢐ ᢐᢐᡑᢐ 4.7a as $\Delta 40be$, so e $\mbox{C"Pb}\Delta \mbox{b}\sigma\mbox{U} \mbox{Γ} \mbox{σ}\mbox{Γ} \mbox{∇} \mbox{Λ}\mbox{ς}\mbox{σ}\mbox{Γ}\mbox{σ}\mbox{Γ}\mbox{σ}\mbox{Γ}\mbox{σ}\mbox{σ}\mbox{Γ}\mbox{σ}$ P~b>Ld<P~ P,C P >\C\L ¬^C ხ ხ<∪ჲႨ∙٩ ٩٠৮৮° $\text{PL} < \sigma \mathcal{S}' \quad \sigma^{\wedge} \mathcal{C} \quad \cdot \Delta \cdot \Delta^{\vee} \quad \cdot \Delta \cdot \Delta \quad \nabla$ Λ[′]<σ′ ٦[^]هم'_× $\Delta P \quad \Gamma P \quad \Delta C \cdot P , \quad \triangleright \sigma \hookrightarrow \cdot \Delta \cdot \nabla ,$ $\Delta \sigma \sigma \cdot d$ P $\sigma \cdot C$ Ad 9<u></u> የሚያ ልተል ነ

 $\nabla C_{\nu}P^{2}+\nabla \nabla A^{2}+\nabla \Delta A^{2}+\nabla$ $\triangle P$ **Ϥʹ**ር **ገ**⋅**b**4՝ **b** Δ**ʃ** PS^A' 4.72 ·4 ·4<CJ·9 ~^C LY·△ ∀Y V9 P ∀UP, P ·∀ b < 92464 PC 6 40 6AU16UP 9 $DL \cdot \nabla L \nabla P P \rangle$ $DL \cdot \nabla L \nabla P P \rangle$ a - b - c' $4 \cdot \nabla a - d \cdot c - b - \Delta S$ 6.♥♥ ·△.₽. ₽.₽. ∆\\ 1.₽. ∆ $V_c < \Phi_r$ $\forall < U \in \nabla_r$ ΔU 4<0.7 -4JS' P 6 ·4<F' 4@ 6 $\wedge^{c} < \sigma \cdot C' \quad \forall b < \sigma \cdot \sigma^{c} \quad \sigma^{c} \quad \forall d \quad b$ $\Lambda^{c}\langle\sigma^{+}C'\rangle$ $\Delta<\Gamma^{-}C\cdot\Delta\sigma\sigma^{+}\sigma^{+}$ $\Gamma^{+}\Gamma^{-}C$ $P \cdot \nabla^{\sigma}$, $C \cdot d < Lq$, $P \cdot d < U \cdot L$, J·P- ∆ <<U\\.* $aabCC \cdot bb^{\wedge} \Delta^{\wedge} \Delta^{\wedge} \nabla^{\wedge} \Delta^{\vee} d\sigma$ $1^{ba} \Delta(\cdot \Delta \sigma)^{*}$ Jら〉・◁ˇ∪Ⴥ٩ J·b⁻ ♡ Λʻ<Ⴥϧ՚_{*} LFSP d<rc.dax $\nabla_V \Delta \nabla \nabla_V \langle \Phi \rangle$ $\Phi_V \langle \Phi \rangle$ C9<₽,C∙4L, Δ V7∩L, 4.∆apa,× 6.∇σ V.<2 Δ2 Δ</p> معهار مرح عهم ۱۲۰۵۲۸ ک ·ΔCL9·Δα 7⁶α^x $Vb\Gamma < \sigma \Delta^{\Lambda} \nabla b b < \forall Ua \cdot ba \cdot 9$

 Δ V. $\langle \varphi P \rangle$ Δ V Δ

4<0.7 $b^{c}\langle\sigma\cdot\Delta\rangle$ $<\cdot$ $b^{c}U$ PC PCP $_{\sigma}$ C $_{\sigma}$ $\triangleleft \cdot \nabla_{ \bigcirc_{x}}$

ΔΥΛ 9·6σ° Σ6 6 ΦΦ6ΓC/* \triangle 9 $1 \cdot \nabla$ 1 ∇ 5, bl $\cdot \nabla$ 1 ∇ 6,* ∇ 6V7 $\Lambda U \sim C \Lambda C \sim B \Gamma V \sim A \Gamma V$ ᡆ᠊ᠣᢣᠳ᠘ᡶ᠈ᢆ

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V9 C,C Δ 2 $4<U5^{2}-4$ 7, $6,U^{2}-4$ F·⊲L º,Cc C·P, △P bL J 30,CP P 4<U5, 40,Pc C کرد ۱۰۹۰6 م.× L۲۰ک کړ $\rho < 2 - \sqrt{4 \cdot \Delta^{\sigma}}$ (b $\nabla \delta - \sqrt{\Delta} \rho$ $\text{PL } \nabla_{\mathsf{A}} \times \text{LJ-C} \quad \mathsf{P} < \mathsf{L}^{\mathsf{A}} \wedge \mathsf{A}$ 9CC·∇,

< $P_{\nu} \cdot \Delta V_{\nu} \cdot P_{\nu} \quad \forall < U \cdot \nabla, \quad \forall \sigma \quad \forall \Gamma$ $4<C^{\circ}$ $4=\Delta$ 6 6 6هم. که ۲۵ مر ۱۵ مر ۱۵ مر dolo, 0 por∆ola, 20,0 va P <<pre>C° 9.66° ACL 9 P PLCQ-QQQPC, Δ Vq<QQCשיכ אס שביףוכ, ⊳נ ססףוכ, ΛCL 9·6σ° ·<LS Δ)C'_x JS'



Photo left and opposite page show the poles being unloaded in Moosonee. The truck you see here will be a common sight on the winter road this winter. Users of the winter road are reminded to be careful when approaching equipment and construction sites. FNEI and PowerTel's goal is zero accidents.

Public Safety

Public Safety is a primary concern on the Omushkego Ishkotayo Project. PowerTel Utilities Contractors Limited has always had an excellent safety record for its workers, which has been achieved through recognized safety procedures, risk assessment and hazard control. Prevention is the key to zero injuries, zero incidents.

Safety for the community presents a very different challenge. There are no laws forcing community members to wear hard hats, safety glasses or steel toed boots, even though in many circumstances they should wear personal protective equipment. Some instances where protective gear would be a good idea are working around hot stoves, chopping firewood, running chainsaws, loading and unloading pickups and even driving on local roads.

In the absence of laws regarding private citizens and safety equipment, PowerTel and Five Nations Energy Inc. can only protect the public by isolating the community members from the work site. This can be a difficult feat to accomplish if people want to see and experience the natural instinct in all of us to participate in the building process.

To assist us in making sure that community members are safe from construction hazards, we ask you to consider the following:

- Never walk near construction equipment that is operating.
- Always stay in view of a truck driver or heavy equipment operator. Make sure the operator knows you are there. (Wave at him).
- Do not go near construction crews while they are working.

- If you are driving on local roads, drive safely.
- Always drive with your headlights on.
- Do not drive near heavy equipment.
- When driving, slow down near pedestrians.
- Do not drive onto a construction site.
- Watch for and obey warning signs on the road.
- Slow down when visibility is poor or when other traffic is parked.
- If you want to visit the construction site, please contact PowerTel for a guided tour.
- Being safe is not luck. It is thinking about the consequences of doing something unsafely.
- Please help us help you. Watch, walk, drive and live safety.
- The only acceptable number of injuries on this project is <u>ZERO</u>.

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Worker&SiteSafety

The first order of business on any construction project is to ensure safety. No worker shall take a risk. All work shall be done with a safe work procedure or not done at all. Every accident that occurs is preventable. In most accidents, the worker took a shortcut, did not use the proper personal protective equipment, removed a guard, used a piece of equipment that should have been repaired first or was not paying attention to what he/she was doing. There is always an answer after the fact but it is too late. The best approach is to remove all risk.

The main goal of safety on any construction job is to prevent personal injury, equipment damage and property damage. The main goals and objectives of a good Health & Safety program are providing a safe and healthy environment for all workers and a process to identify hazards and eliminate risk. It will be the responsibility of managers, supervisors and workers to contribute their part to maintaining a safe, healthy workplace and ensure all legislative requirements are



Audrey Kioke, General Manager of the Kashechewan Power Authority standing in front of the KPA office.

understood and observed. This will be the responsibility of any subcontractors and their workers as well. Anyone not working safely will be disciplined up to and including being fired from the project.

All workers will go through an indoctrination program and site orientation at their work locations. There will be weekly safety meetings going on for communication of work to be performed and the safe manner in which it will be performed. This is to ensure supervision maintains direct control on the areas of work they are responsible for. The workers will all know how the work is to be performed.

On a regular basis the work areas will be inspected according to the Occupational Health & Safety Act and the involvement of Health & Safety Representatives. There will be planned inspections of the work areas to address all aspects of the Health & Safety Program and regulations. There will also be general inspections which, will be an every day approach by workers

and supervisors to maintain a safe workplace and identify and deal with hazards.

Training will be a very integral part of safety. Many of the items required prior to the start of work will be WHMIS training, First Aid training, Vestibule training for the line apprentices, and orientation with equipment for operators prior to using a piece of equipment. The on-going day-to-day training will form the expertise required by individuals to continue working and progress to more re-

sponsible positions on the work site.

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In Memoriam

Billy (Bayou) Echum
Kenneth Echum
Anita Echum
Johnny Namagoose
Mistie Chum
Michael Echum
Mark Echum
Keisha Echum

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Kitchi Meegwetch

Submitted on behalf of all of the families affected by "The James Bay Tragedy"

To all the Volunteers from Moosonee, Moose Factory, Webequie, Kasechewan, Fort Albany, Kasabonika, Attawapiskat, Waskaganish, Kingston, Ft. Hope, Toronto, Ottawa, Timmins, Charlottesville, Virginia USA, and Fort Smith, NWT for their personal and professional sacrifices in committing themselves in the search and rescue operation from October 1st to November 5th, 1999.

Your role, no matter how small it was, resulted in the recovery of all our loved ones: Billy (Bayou) Echum, Kenneth Echum, Anita Echum, Johnny Namagoose, Mistie Chum, Micheal Echum, Mark Echum, and Keisha Echum.

"All the volunteers from the above communities are greatly respected for their kindness and caring towards their fellow Canadian Citizens, whoever they may be. These dedicated and compassionate community members were critical partners to the success of the overall effort." Taken from the Final Report of "The James Bay Tragedy" by Moose Factory Search and Rescue.

To the coordinators at Moose Factory Search and Rescue and Waskaganish Search and Rescue; we have never seen efficient teamwork as you had all displayed. Great work, we are extremely grateful that you provided your knowledge, skills and undying personal and professional sacrifices to our families. OUR HATS GO OFF TO YOU!

Also to the following: Nishinawbe-Aski Police Services, Ontario Provincial Police, rescue coordination centre, Ministry of Natural Resources and the Canadian rangers.

Thankyou for all your professional services.

Also to all communities, organizations, businesses and individuals who donated through mon-

In Memoriam

Billy (Bayou) Echum
Kenneth Echum
Anita Echum
Johnny Namagoose
Mistie Chum
Michael Echum
Mark Echum
Keisha Echum
* Mary Echum

etary, supplies, fuel, etc. and most of all to those who gave their prayers though correspondence and in spirit. Meegwetch!

A very special thankyou to Father Wayne and Deacon Ray, for their tireless visitations to our families during the crisis. Your strength and prayers have reinforced our relationship with our Creator, praise and Meegwetch.

Throughout this tragedy, you have all shown the most important trait of all God's children – CARING. Thirty-six days in the fall of 1999 have

been the strongest test we had to face as a family, community and as First Nations. It tested our faith in the Creator of why our loved ones were taken from us. However, as each day passed, each loved one found and questions answered, our faith in the Creator became stronger.

Everyday since this tragedy, we have individually struggled in our own daily lives to accept the way things have changed; yet with the kind words of encouragement and through prayers we all receive day to day from people all over, it just makes it that much easier to move on and carry the wonderful memories of those we lost. Though it is almost impossible to put down all your of your names, we all say Kitchi Meegwetch to you. In brother-hood and sisterhood...may God bless you all.

Myra & Kaileen Echum, Ryan Echum, Kenny Echum Jr., Steven Wapachee, Andrew Wapachee Jr., Winnifred Namagoose & Family, Bertie & Winnie Namagoose & Family, Steve, Lea Anne & Shay Chum, Ellen Turner & Family, Lizzie Rickard & Family, Leonard Echum & Family, Charlie Echum Jr. & Family, Maria Echum, Raymond Echum, Beverly Echum & Family, Marcella Small & Family, Johnny Echum, Elizabeth Chum, Mary Mianscum & Family, Roger Chum & Family, Gerald Chum & Family, Verna Cheecho & Family, Ken Chum & Family, the Whiskeychan Families, and Katapaytuk Families.

*Mary Echum (1910-1999) passed away in November 1999, shortly after the last person was recovered. Mary was the mother of Billy, grandmother of Kenny and great-grandmother of Mikey, Marky, Mistie, and Keisha.