Just another lenefit for a company hundreds of mides away.

Tourists, of course, have no desire to see such views.

Again, plast drop this grogest.

Sincerely, Ti Dengerih

DOCUMENTATION OF PUBLIC COMMENTS ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

APR 23 1993
ALASKA ENERGY AUTHORITY

You are invited to comment on the proposed Copper Valley Intertie Project which would consist of a 138-kV electric transmission line from Sutton to Glennallen. The Alaska Energy Authority is conducting the first Phase of a planned two-phase feasibility study of the Intertie. Two sets of public meetings will be held in Phase 1 at which comments may be voiced. Phase 2 of the feasibility study will follow in the second half of 1993, if funding permits, and would include one additional set of public meetings.

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Please submit your comments as soon as practical to the following:

Mr. Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

Name of Person Commenting:

Comments will be included in the reports provided they are received at least two weeks prior to the publication of the reports. Tentative dates are June 15, 1993 for the Phase I report and October 1, 1993 for the draft Phase 2 report.

CHUCK SPAULDING

Matter Address	P.O BOX 1129
Mailing Address:	CHICKALOON, AK 99674
COMMENTS:	
COMMENTS.	economic view, I believe this intertie will
From an.	economic view, I were the solution of the
be a hinderine	Matanuska River Valley has no solmon frehing, of destination. It is a beautiful through-
A state. the	Matanucka River Valley to a beautiful through - t dectination. It is a beautiful through - anal fotential that is being slowly continued on Back
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value of this area is paramount to it's future. I believe That it is impossible to hide the intertile from this relatively narrow view shed, Maintanance roads and the easement itself poses mereased pressure on hunting on this area that has already seen vost increases from urban hunters. All-terrain vehicals will access more area as well, and intrude on the goals and objectives of the life style chosen by residents. I believe the coal fired power plant owned by Hobbs. Industries should be looked at closes especially in the event that natural gas should ever be available in the future. I am concerned about the Hunknown health risks associated with the electromagnetic fields of the line, Jam converned that the residents of Copper Volley who do not pay taxes locally. Controlling the increases of electrical costs just becomes another subsidy
for their choice of habitat. We gain so nothing from this intestie and to loose alot. from our investment in this valley should it proceed.

RECEIVED

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APR 2 8 1993

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Name of Person Commenting:	Jane Larson
	P.O. Box 3991
Mailing Address:	Palmer, AK. 99645

COMMENTS: My husband and I are very much opposed to this power line running through the residential area of Chickaloon. We fear for the safety of our young children, as well as for the many developing children in the area. The Copper Valley Electrical Association is telling the legislature that the line does not run within a mile of any residence. Yet the proposal is ½ mile from our house.

Alaska is a big state. Is it necessary for this transmission line to parallel so close to residential communities? We value a rural lifestyle that

Continued on Back

we worked hard to develop for our children. This line not only endangers our children through effects of electromagnetic fields on developing bodies, it also destroys the esthetics of a wildreness area, and lastly develops a corridor for inconsiderate, urban ATV riders to roar through our neighborhood.

We understand that others want cheaper electrical power but is it necessary to devestate our communities in the process? I thank you for you time and any assistence you can give us in preventing this line from being run near our community.

Jane Larson

RECEIVED

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MAY 0 4 1993

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Name of Person Commenting:	Douglas A. Thipssen
Mailing Address:	HCD3 Bax 8392 Palmer, AK 99645
COMMENTS:	

Mr. Emerman.

As a resident of the Educier View Community, at would like to voice my opinion on the Sutton-Glemallen Intertie. I question the feasibility of an intertie 20-30 yrs down the road. In the short run, an Intertie rould be feasible + the beast expensive avenue, but in 20-30 yrs the power needs are likely to be different, so I would recommend that you study needs are likely to be different, so I would recommend that you study other alternatives to make the Copper Valley less desendant on power that is generated so far away from their service area. I also appose that is generated so far away from their service area. I also appose that is generated so far away from their service area. I also appose

Mr. Richard Emermen Akska Energy Authority P.O. Jox 190869 Ancharays, Akska 99579-0869

May 1, 1993

I live at mile 92 of the Glenn Highway and would like to state my opinion on the Sutton-Gennallen Inter-tie. Like many Residents, I am opposed to the Inter-tie going through any of the matanuska Valley. The 6lenn Highway is one of the prettiest highways in Alaska. It follows the Materiaka Thus valley and offers splendid views of the Chugach & TAIKeetra mountain Ranges & the materials River which provides leavest and opportunities for many Alaskans is tourists. The Walley also offers photo opportunities of 3 glaciers. The Matanuska, the Melchina & the TAZLina Glaciers. There are few Roads in Alaska that has so much Deautiful countryso natural as the materiuska valley and the Glenn Highway. I would hate to see that destroyed by a huge 138-KV electric TRANSMISSION I'ME RUNNING through any part of this valley. The beauty is not concentrated in one area of the valley, but is the whole length of the highway from Sutton to Olennellen.

The been a resident of the materialists valley since 1988. I moved to the valley because of its beauty. It's not easy living here as it is so for from work prospects, but it's a choice I Am glad I made. If the inter-tie comes through the valley it will destroy the reason I moved here. I own 40 acres of Land & do not want to have a hage powerline humming over me or in my view. It would destroy the dream I beave finally accomplished. I receive no benefits from the inter-tie. HAIF of the people affected will not benefit.

I realize that the residents of the copper Valley need another Source of Energy. I Am not against that, But I would like to see more research done on alternatives to the inter-tre. Have the following been thoroughly studied:

1 NATURAL GAS. From Aleyeska. Seems that Natural gas would be a better source of Energy for .CV. residents that electricity. Bit the natural yas being wasted in Valdez- Just burned off.

(3) COAL

after alternatives have been studied à no other options can be found, than the Inter-tre should take a Route completely out of the materiuska valley. There is a groposed route north of the valley through other valleys. I know it. would cost more, but the beauty of the maternisks Valley is worth the expense.

Please help us, the residents of the materiuska Valley, protect what we moved out here for - the natural beauty & ovietness of the matanaska Valley. Come visit, see for yourself what. is at stake!

> Thank-you, Deborah meater P.O. Box 1124. Chickatoon, Alaska 99674.

Deborah meater.

RECEIVED

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MAY 10 1993

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Name of Person Commenting:	William Box 26	Schmidtk	NN Z		
Mailing Address:		Alaska			
COMMENTS:					
I support the Su	Hon Com	Ctinum.	Council	Resolution	93-00
opposing the Copp	er Valley	Into tie	an d	I am	
strongly en couragin	g alter	native é	nergy	Continued on Back	
Sources for CUEA.					



Alaska Center for the Environment

519 West 8th Avenue, Suite 201 • Anchorage, Alaska 99501 • (907) 274-3621

May 19, 1993

RECEIVED

MAY 21 1993

ALASKA ENERGY AUTHORIT

Ron Garzini, Executive Director Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

Re: Proposed Glennallen to Sutton Intertie

Dear Ron:

We learned too late to attend any of the AFA's March public meetings that the idea of a Glennallen to Sutton intertie had been resurrected. Subsequent to that, we learned that legislative funding was being sought before the feasibility studies were completed. That caught us by surprise—and disturbed us—since seeking funding seemed to cast into doubt the objectivity of the feasibility studies and suggested that the Authority might already have made up its mind about the proposal. Many of us then contacted the legislature, but of course it was difficult this year to convince that body not to spend money, regardless of how well or poorly justified the spending proposals might have been. We're hoping that in future years the legislature will be more responsible.

We oppose this proposal. Based on earlier analyses, we doubt that it has a positive cost benefit ratio, or if it does, that it is as favorable a ratio as other alternatives. We have not seen, incidentally, any mention of end-use conservation programs in the meeting transcripts we've reviewed so far. We're curious about the fate of the recommendations staff made to the board on September 20, 1989 regarding these programs (#4 at page 25). What was the board's response? Were these programs ever implemented?

At the present time, however, what we're most knowledgeable about are the very substantial adverse impacts that would result from any routing between Glennallen and Sutton. It appears that to date you might have heard mostly from residents who very understandably do not want the line to run near either their homes or the highway they frequently travel. Local residents are concerned about their health, the degradation of the area's extraordinary scenic beauty, and the effects the latter will have on both recreation and tourism.

None of these concerns are limited to local residents only. We hoped several years ago, and still hope, that the Glenn Highway could receive a scenic designation that would preserve some of the most beautiful views in Alaska. This is important to locals, the thousands of Alaskans who drive the highway, and tourists whose first impressions of our state are received along the Glenn. The

Parks has been badly degraded by unregulated development. We'd hate to see that happen on the Glenn.

Finally, it is far from true that no one would be affected by a routing away from the highway, including behind the mountains. The historic Chickaloon Knik Nelchina Trail would be badly impacted, as would the legislatively designated Nelchina Public Use Area, one of the most popular and beautiful hiking trails in Southcentral Alaska (Hicks Creek/Chitna Pass - we've included for your information a copy of the trip description from the Southcentral hiker's bible, 55 Ways To The Wilderness), and many other popular and scenic trails and landmarks.

Alaska is blessed. It is the least developed state in the nation. With a little work it's still possible to get into areas where relatively few people will be encountered, and roads, power lines, and other manmade facilities are non-existent. It is exactly because relatively few people will be encountered in the Talkeetna Mountains that they are such a valuable resource for both Alaskans and visitors. It is ironic that it is precisely that quality which causes you to recommend them as a possible location for a large power line. We are adamantly opposed to siting the intertie there, as are many other Alaskan individuals and businesses who recognize what an irreplaceable treasure the Talkeetna's are.

This does not mean that we believe the power line should be routed in people's backyards or along the highway. We believe it shouldn't be routed-period. We certainly don't believe Alternative 1 is better than Alternative 2. In any case, to say that one route would degrade residents' homes and the highway, and the other would degrade the backcountry, is a false distinction. Both alternatives would degrade all of those areas significantly, but in differing degrees.

We were very pleased to see this proposal dropped several years ago, and hope that you will see fit to drop it again.

Sincerely,

Cliff Eames Issues Director

cc: Mike Wenig, Trustees for Alaska

. 7 CHICKALOON TO VALDEZ

48 Hicks Creek/ Chitna Pass

One-way trip 42 miles
Allow 4-5 days
High point 4700 feet
Total elevation gain 4120 feet eastbound,
3680 feet westbound
Best late June-September
USGS maps Anchorage D2, D3, D4
Matanuska Valley Moose Range

The Talkeetna Mountains, which invite endless wandering, are a fascinating wilderness of peaks, tundra, alpine valleys, and clear mountain streams, many of them far from civilization. A nearly circular route is described. By using this trip as an access, many other trips, limited primarily by your time and food supply, can be planned from topographic maps.

According to old-timers, prospectors traveled on this trail in the early 1900s. The route took them from Knik (which in summer could be reached by boat) and Chickaloon, up Boulder Creek, over Chitna Pass, and along Caribou Creek to Alfred Creek (Trip 49). Their destinations were gold prospects and mines on Alfred and Albert creeks. Today these are off-road-vehicle (ORV) trails, still used by miners and by hunters in the fall.



Route to Chitna Pass, August (Simmerman photo)



Crossing Boulder Creek channel, August (Simmerman photo)

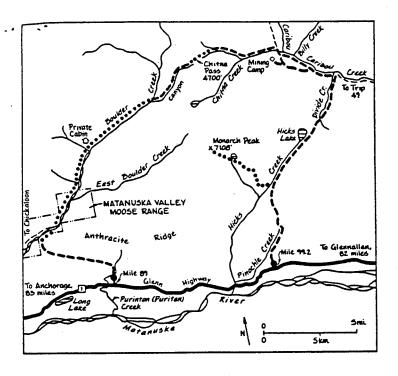
The route described here is not a marked, maintained trail but rather a collection of ORV, horse, and game trails. The trip is not for novices; it is possible to be confused about the route and become lost. A 1:63, 360 USGS topographic map is essential; help is far away. Experienced backpackers, in good condition and able to follow USGS maps, will find this a delightful experience, if they don't mind using ORV trails. Watch for caribou, moose, black bears, brown (grizzly) bears, Dall sheep, wolves, and coyotes.

From mile 99.2, Glenn Highway (99 miles northeast of Anchorage), opposite powerline pole no. 7746, turn north onto a dirt road. Park here (elevation 1776 feet), without blocking the road, or park south of the highway. The first section of the trail is known locally as either the Pinochle Creek Trail or the Hicks Creek Trail.

On foot, follow the dirt road north. It quickly becomes an ORV trail that climbs above timberline to a 3150-foot pass. The trail is deeply rutted, often mucky, and littered, but the total trip is worth this initial visual discomfort.

From the pass, the trail descends to Hicks Creek at 3000 feet. A side trip heads northwest across Hicks Creek to a small alpine lake (elevation 5000 feet), about 5 miles away (good camping, but no firewood). Monarch Peak (elevation 7108 feet), towering above the lake, is the highest in the area and a steep but easy climb.

The main trail continues to Hicks Lake. The route may change from year to year. Pick whichever side of the creek looks easiest to you. A good campsite is at the



south end of the lake. Beyond the lake the ORV trail crosses a low 3300-foot pass, then follows Divide Creek down to Carlbou Creek (elevation 2800 feet), about 4 miles from Hicks Lake.

Follow the trail up the south side of Caribou Creek, passing good campsites. In 1½-2 miles, the ORV trail leaves the creek and heads southwest, paralleling the creek on high ground. Just before Chitna Creek, the trail forks; the right branch leads down to Chitna Creek.

A more difficult route that avoids the ORV trail continues along the south side of Caribou Creek. Just above the junction with Billy Creek, climb the bank to avoid cliffs and travel the bluff until the route below is clear. Do not cross Caribou Creek at any point.

Above the junction of Chitna and Caribou creeks, follow the south bank of Chitna Creek about half a mile upstream to the ORV trail crossing. Cross Chitna Creek; it is swift, but usually not deep nor difficult to cross.

The ORV trail continues north along Caribou Creek. DO NOT FOLLOW IT. At the top of the bluff on the north side of Chitna Creek, go left, off the ORV trail, and search for the foot trail that follows Chitna Creek.

The trail now blends with game trails, making it difficult to follow; but it does continue to Chitna Pass and is worth the search. About 2½ miles from Caribou Creek, turn northwest up a tributary of Chitna Creek toward Chitna Pass. At 3600 feet the

vegetation changes from brush to open tundra—and delightful walking. A gradual climb to Chitna Pass (elevation 4700 feet)—2½ miles away—leads to fine country for camping and exploring. Nearby 6000-foot peaks can be easily climbed. Drinking water is available, but firewood is not. Map reading skills are essential to find the drainages that lead to the pass.

Southwest of Chitna Pass the trail parallels a small creek. Where the stream enters a small canyon, about 2½ miles from the pass, the trail stays on a descending ridge northwest of the canyon all the way to Boulder Creek. It does not drop steeply to Boulder Creek directly west of Chitna Pass, as shown on the USGS map.

About 4 miles from Chitna Pass the well-defined trail ends where it enters the Boulder Creek gravel bars. Following the southeast river bank requires scrambling over bluffs, necessary perhaps if Boulder Creek is high and cannot be easily crossed. If the water level is low, walking the river bed, splashing across the braided channels, is the easiest way to continue. At-higher water, cross Boulder Creek once, and stay on the northwest side where occasional stretches of a trail can be found. Some bushwhacking through alder or willow may be necessary. Camping is good on the river bar.

Just before reaching the bluff of Anthracite Ridge, cross Boulder Creek and find the Purinton Creek Trail on the east bank of the stream, at the base of the ridge. On some maps it may be labeled the Chickaloon-Knik-Nelchina Trail. Follow this trail south, then east to the Glenn Highway. The trail has a few boggy spots, but generally the walking is good. Little water is available; there are few desirable campsites. On a clear day the approach to the Purinton Creek trailhead is spectacular, with its panoramic view to the south of the rugged Chugach Mountains.

To reach the Purinton Creek trailhead by road, drive to mile 89, Glenn Highway. Parking is available in a pullout on the highway. About 100 feet east of Purinton Creek (highway sign reads "Puritan Creek") is a short dirt road heading north, then east. Follow the road, through private property (respect no parking and camping signs). The road becomes an ORV trail and ascends a very steep hill to the north. The trailhead elevation is 2200 feet.

The route can be used for skl touring, either as day trips from either trailhead or as a several-day trip for experienced ski tourers and winter campers. The route near the trailheads is likely to be packed by snowmobiles. In midwinter prepare for very cold weather as temperatures to -30° F are not uncommon.

CHICKALOON TO VALDEZ

49 Syncline Mountain

Traverse or round trip 25 miles
Allow 3 days
High point 5471 feet
Total elevation gain: traverse over summit
4400 feet, round trip 3800 feet
Best June-September
USGS maps Anchorage D1, D2

The routes described here provide access into the back country of the Talkeetna Mountains, which are inhabited primarily by caribou, sheep, miners, and—during the last part of the summer—hunters. Part of the trip lies along the route of the old Chickaloon-Knik-Nelchina Trail, which provided access to gold mines on Alfred and Albert creeks before there was a Glenn Highway. Several different trips are possible, including a climb of Syncline Mountain and a traverse around the mountain. The climb is not difficult, offers nice views of the Chugach and Talkeetna moun-

P.O. Box 111944 Anchorage, AK 99511 (907) 345-1691 May 17, 1993

RECEIVED

MAY 21 1993

ALASKA ENERGY AUTHORITY

Mr. Dick Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

Dear Mr. Emerman,

Thank you for the set of maps of the Copper Valley intertie feasibility study.

As I mentioned, I am a property owner at mile 72 on the Glenn Highway (shaded area on the map). I first heard of the proposed transmission line on the local news around the 9th of May at my King Mountain cabin.

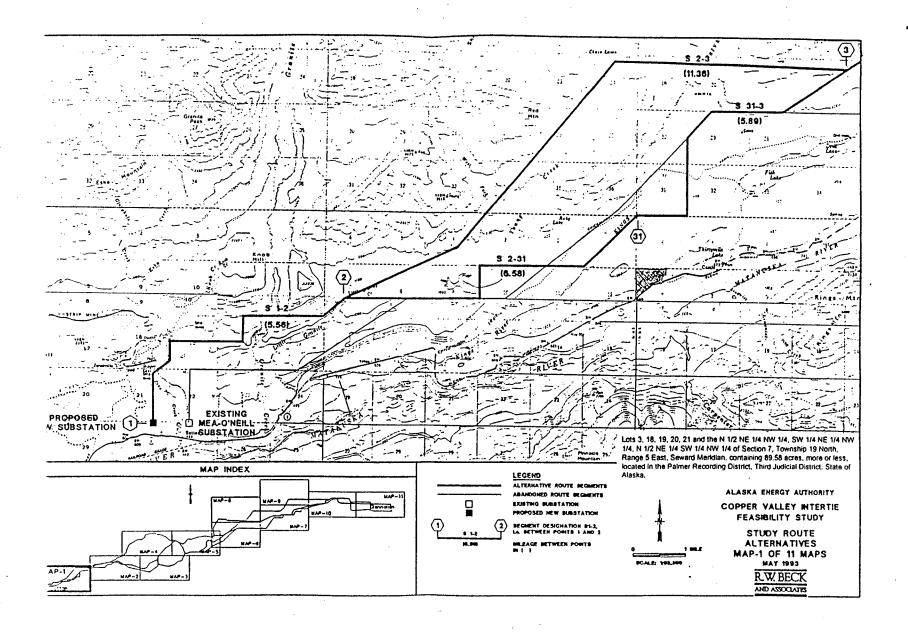
I object strongly to this proposed transmission line being constructed in this nearly pristine valley. I do not believe it is possible to place this line anywhere in the Matanuska Valley without creating an ugly scar on the land. I do not believe that this line will affect the view from any spot on my property, but we often take snow machine or three wheeler trips up Permanente Road and then up King River Valley. We cherish the scenery along the way and the view from high points on the trail. The lower part of the Kings River and Chickaloon Trail go through an area of untouched forest. This proposal may very well be feasible from an economic view point, but only if you do not consider the natural beauty of this area. I especially object strongly to segment S 2-31. It would intrude into an area of the moose range that is isolated by steep slopes, rivers and private land.

I think this proposal is short-sighted and disrespectful to the natural beauty of this valley. An underground gas pipeline along the Glenn Highway and more local power generating capability seems a more prudent alternative.

Sincerely yours, Fin A. Dodge

Kim A. Dodge

Enclosure



DOCUMENTATION OF PUBLIC COMMENTS ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

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Suel D. Tones

Maine of Person Commencing.	
Mailing Address:	116 03 Box 8460 Palmer, 11K 99645
	Palmer, AK 99645
	746-0697
Physical addr	ess - mile 105 Glen Huy.
COMMENTS:	·
Please be advis	ed that I am strongly opposed
to the intertie we who	live along the Glen Huy depend upon
tourism both instake a	of state, as the base of our economy
We do not have fishing	to bring people to on part of Alaska.

Continued on Back

What we have to offer is A senic view unique to any poach system in the states The stretch of highway From Glennalles to Sutton is the most beautiful approach to Anchorage. This includes any part of the Alcan. What more can be said than this area is unique. It must remain pristine e-sent.
There is a cool generated NEAR Golgana sitting idle liky
not put it to use. Why Allow A white etephanis remain uscless? There is no dockt that people in the Copper Valla need more + less expensive energy, but the proposed-intatie will not lover rate. Only 27 million has been offer by the state. This intertie will cost much much More than that This means bonds must be sold in order to finance the entire project. Who will pay off this dept? The electrical user, Rates would have to be traised to pay this roff. Think! Think, before building A prijet that will destroy a unique area, attent the livilyhood of the residents + raise rates for all energy users,

May 28, 1993

David G. VanCleve Mile 2.8 Fish Lake Rd. Chickaloon P.O. Box 366 Sutton, AK 99674

RECEIVED

JUN 0 7 1993

ALASKA ENERGY AUTHORITY

Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

Dear Mr. Emerman:

These are my comments on the Copper Valley Intertie. I attended the meeting held at NOVA River Runners a few weeks back and was interested to note that those most interested in seeing the intertie go through our community were the least interested in considering any alternatives to the new construction option. However they may have protested to the contrary, it was plain to me that A.E.A. and the power companies had already made a decision in favor of new construction. It was my observation and "gut-feeling" (accurate or not) that Copper Valley, M.E.A. and A.E.A. representatives were not there to listen but to get a feeling for the kind of strategy that might be required to steamroll the community with an economic boondoggle that will severely limit our economic options.

This is a young but organized community with a history of consensus style decision making. This kind of cooperation among the members of our community did not come easy but was the result of an effort to keep this sort of destruction of our lifestyle from taking place. It took three years, we are the first small community in the borough to take this step by developing a comprehensive plan. It is a well thought out and reasonable document. I would suggest that you read it and see if you can come up with some suggestions that would conform to it.

The Copper Valley Intertie will destroy not only the environment of what used to be called "Paradise Valley" but also any sustainable economic enterprises that could have been based on the natural beauty of the Chickaloon area. If this intertie goes through the opportunity costs to the state and the community will be much greater than the costs of finding an alternative to this needless capital expenditure. Chickaloon alone not only will be unable to capture tourist dollars, particularly from recreationists from the Anchorage bowl, but will not benefit for long from the construction itself. The access created by the right-of-way will open the area to further degradation by O.R.V. traffic.

I made the suggestion previously to the A.E.A. representative, M.E.A. and the people of Copper Valley, when they were present at the NOVA meeting, to seek a way to alter the contract Copper Valley says they have with the State of Alaska to consume power from the

Solomon Gulch Dam so that they can take advantage of the power plant constructed by Hobbs Industries. That is a power source that already exists in the Copper Valley area. It appeared to me that this idea was rejected out of hand so I make it once again for the record.

The idea that it is a waste of railbelt money to promote and facilitate energy conservation is "pure baloney." I suggest that a representative from the Rocky Mountain Institute in Snowmass, CO be contacted to conduct an inventory the energy saving alternatives to the Copper Valley Intertie. The Rocky Mountain Institute is composed of respected experts in the field of energy conservation and was founded by Amory and Hunter Lovins noted authors and researchers in the field. R.M.I. also promotes community development and can facilitate consensus building activities among the interested entities which in the long-run will most benefit the entities concerned and the State of Alaska. I also suggest that we discuss and decide the best way to implement these alternatives not only for Sutton, Chickaloon, Glacier View, and Copper Valley, but the entire railbelt area.

In short I am opposed to the construction of the intertie. This project will result in a net loss not only for the people of Chickaloon but the people of the State of Alaska. It's just plain and simple an irresponsible waste of money. Spend the money on a constructive process of consensus building, energy conservation, and sustainable economic development. I respectfully submit these comments for your consideration and hope the result of this process will be acceptable and beneficial to everyone involved.

Sincerely,

Sand H. Zanline

David G. VanCleve

DOCUMENTATION OF PUBLIC COMMENTS ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

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JUN 01 1993

ALASKA ENERGY AUTHORITY

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Name of Person Commenting: Mailing Address:	MARK SWAMSON
	Payrice 2

J AM OPPOSED TO THE IMPERIL PROJECT. THE COMMENTS: PROPOSED LINE WOULD DIRECTLY AFFECT MY HOME AND FAMILY. IT WOULD FORCE ME TO PERMEN MY HONE, AND WHERE WOULD I GO. I'VE STAT THE 1857 [1647 YEARS INDROVING THE LAND FOR Continued on Back NURSERT PROLUCTION AND A SAFE FAMILEONING IT FOR MY CONDEED. THIS INTERTIE WOULD MAKE

COMMENTS: (Continued)

IT UNSAFE TO LIVE WHEKE I HAVE CAUSEN

TO BUILD AND LIVE FOR A LIFETIME. I FIND

IT IRONAL THAT A POWERUNE COULD CAUSE ME

TO MOVE WHEN THE POWER COMPANY HAS MALE

IT IMPOSSIBLE FOR ME TO AFFORD POWER TO

MY HOUSE. I FIND THIS VERY WRONG. I

THINK THERE AIVST BE OTHER ALTERNATIVES

TO THIS PROPOSAL. THANK YOU FOR TAKING

THE TIME TO READ THIS.

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JUN 0 3-1993

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Mailing Address	g. 0 · 00x		
Mailing Address:	Sutton, Alaska 99674		
COMMENTS:			
Mr. Em			
	P. J. Hill is much more oble to describe the		
	many reasons this reduculous.		
	Maria considu		
	these comments opinions and information carefully.		

Interties not deserving

Mike Doogan has been trying to nickel Mike Doogan has been trying to nickel and dime us in making suggestions to the governor for state budget cuts. So far he has recommended cuts of approximately \$80 million — \$500,000 here and \$50,000 there. He has yet to suggest the cut that would save \$175 million — the legislative appropriation for electrical interties. If any part of the budget has a weak claim on part of the budget has a weak claim on public funds, the interties are it.

Most of these funds will be used to finance intertie transmission lines and reinnance intertile transmission lines and related equipment between Anchorage and Kenai, Fairbanks and Healy, Glennallen and Sutton, and

one near Ketchikan. These interties will supposedly increase the reliability of the electrical system so that there will be fewer power out-



The primary question is whether elecages. trical power is a deserving candidate for public funds. Typically, government in-tervention is justified when the market is unable to solve the problem of providing

goods or services.

Market failures occur when it is difficult to charge for goods or services provided to consumers. Police and national defense are consumers. Police and national detend ate good examples. It would be difficult to have people voluntarily pay for these services because once they are provided they are available to all. The market fails because everyone tries to be a free rider government should provide goods when the market can't.

However, it is not possible to be a free rider with electrical power. Consumers pay their bills because their power will be cut

if they refuse. The market works.

Legislative appropriations for interties reflect the political acumen of the power lobby, the local power companies and the construction companies who would build these lines. these lines.

The cost of these projects is what Alaskan will forgo to pay for these interties. How many schools — which have a stronger claim on public funds — could be built for \$175 million?

What are the additional benefits that What are the additional benefits mill be generated as a result of these lines—increased reliability for electrical consumers? When was the last major power outage that occurred as a result of a failure outside the second of th outage that occurred as a result of a landing in the already arising its allowed with the substance of a result of failures in the local distribution systems, not in the interties. The big sallures last winter would still have occurred if the proposed \$175 million projects had been in place. had been in place.

nad been in place.

The state is proposing to spend \$350 for every man, woman and child in the state on interties. A family of four would be better off spending \$1,000 on a portable electrical generator (they'd have \$400 remaining), than having the state fund the interties. Generators would protect consumers against the failures in the local distribution systems, something interties distribution systems, something interties

These intertie projects are not deserving of public funds. If these projects made economic sense they could be funded

through private capital markets, but projects that make little economic sense find funding to be much more problematic.

The electrical power interests find it is easier to lobby for "free" money in Juneau, rather than ask their customers to pay for projects of dubious value through their electric bills their electric bills.

Please Mike, get to the main course. Suggest that the governor sort out the strong projects from the strong lobbyists where there is real money involved. The where there is real money involved. The \$175 million could be spent in other ways, and provide far more benefits to the citizens of Alaska.

The powers that be need to figure out where government is efficient and effective, and where it is not. Taxpayers and school children should not be put in the position of subsidizing electrical consumers with illusory benefits.

☐ P.J. Hill is an economist at the University of Alaska Anchorage and teaches a course on public finance.

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JUN 10 1993

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	Shirley A Swanson
Name of Person Commenting:	2685 B Newbury Circle
Mailing Address:	Burlington, Iowa 52601
	PH: 319/752-8072

COMMENTS:

JUNE 6, 1993 Dear Sir:

Knowledge of the Copper Valley Intertie Project has reached me through my son & family (Mark/Becky & Amos Swanson) who live near Sutton, Ak. Their 10 acres of property joins the current power line area and the new proposal would put them at (possible/probable) risk to continue to live there.

Mark & Becky Swanson (age 32) are IOWA people who were lured to Alaska in 1985 by "THE LAST FRONTIER" calling them to a life style they wanted and preferred. They are truly pioneers fulfilling a wish that began only in the day-dream mind of a grade school student thinking "wouldn't it be great to live in the North Country -- Alaska"!

Upon graduation from the Univ. of Minnesota in horticulture they flew to Alaska with high hopes of adventure and hard work. Like all pioneers of the frontier they did have adventure, hard work, disappointment & set backs. In 1987 they chose

COMMENTS: (Continued)

10 acres of wilderness/frontier land; bought it and started planning for their future home. They were so proud & of course the envy of many who for one reason or another , didn't or wouldn't or couldn't do such a thing. The bottom line being "the Alaska Frontier" made it possible. They did clear the land and build a house, just the two of them doing all the work by hand, taking $1\frac{1}{2}$ years to complete.

Moving day was Nov. 8, 1988 and I (proud MOM) was there when the stove pipe on the cookstove was hooked up and we spent the first night in their home. They chose the 10 acre homesite near Sutton knowing that Mark had to drive to Anchorage everyday to work at UAA and Becky drove to Palmer for work at the Alaska State Fair grounds where she plans, designs and heads up the beautiful flowers & vegetables you see at the Alaska State Fair each year. Becky even created and designed the Scarecrow Family (Bernie/Millie & children) you've seen at the fair.

Their home near Sutton is truly a picture perfect setting and like a page out of a Better Homes & Garden magazine. They built this home by themselves; building a road from the highway and designing the home of approximately 600 sq ft. They cook and heat with the wood cookstove and light the kerosene lamps; clear the many feet of snow and walk the long trail to their house in the woods because they In April of 1992 a baby boy was born and chose to do this in "the last frontier". they began plans for adding a 'baby room' to their already two-room house (this room now almost completed). They spin wool into thread and make their sweaters; grow their own spice/herb garden for cooking and making a diaper rash salve. They split wood with an axe and bake bread on the wood stove. They are living the motto of ALASKA ---- THE LAST FRONTIER ! ! in everyday life.

Of course - I'm prejudice !

This is a proud Mom/Grandma seeing the good life being lived and worked through the opportunity of the frontier. What a lucky little one-year-old boy, Amos Swanson, has to gain from the good life on the frontier.

This home cannot be moved from their property and the challenge of a dream come true would be only a memory if they cannot live in the home they built from scratch. They would survive but "the last frontier" motto of Alaska would be a broken dream that cannot be replaced for them.

I have visited them in their home and of course know all the pride they have in their home & family. I challenge one of your staff to visit their home! To see the home and the beautiful flower garden and to walk the trail and see the view.

I urge you to reflect on the lifestyle and family of Mark & Becky Swanson and baby boy, Amos, as well as others effected by this proposed Copper Valley Intertie Project. Please consider the cost and risk of such a project on "the Last Frontier".

The many friends and relatives living in Iowa are proud of their young people who want to live the good life today and we want ample opportunity for this to keep on happening.

We are proud to tell people "THE LAST FRONTIER" is still here. Most people just like to visit such --- but few want to live it.

> ---- a letter from MOM, on behalf of MARK and BECKY SWANSON

Sincerely, Palmer, AK 99645

Philly G. Juanan PH: 907/745-1620 and 1-yr-old Amos



RECEIVED

JUN 1 4 1993

Dayse Clark
P.O. Box 313
Sutton, AK 99674
June 3, 1993

ALASKA ENERGY AUTHORITY

Mr. Richard Emerman Alaska Energy Authority F.O. Box 190869 Anchorage, AK 99519-0869

Dear Mr. Emerman:

I am writing you in regards to the Copper Valley Intertie.

I live on my homestead located just off the Glenn highway and right next to the Permenete Road. I am gravely concerned about the proposed locations for the intertie, as well as the true need for even having it.

First I question the areas where this huge monstrosity would be strung. We all live out here for the beauty and solitude of Chickaloon. This intertie would visually pollute our view of the beautiful valley and river below. I would live in Anchorage if I wanted to stare at towers and power lines.

Next is the safety factor. Studies have shown that those people living in the shadow of high voltage power lines have a higher incidence of leukemia in young children. That is just the tip of the iceberg. What bothers me is what we don't know about the affects. It's hard for city dwellers to believe, but, yes, there are actually people that live and work out here year-round. Then there are all the other residents. I'm year-round about the multitude of wild creatures that also call talking about the multitude of wild creatures that also call the mountains and rivers their home. The contruction of the intertie will disrupt their delicate habitats and sentence them to live underneath high voltage electricity the rest of their short lives. Who will speak for them? We will.

Last, I am not convinced that this project is truly necessary. The current pro-development climate in this state makes me think this intertie does nothing more than provide jobs to keep the state machine churning. Is there a true need? If so, I would appreciate some information on where I might find the statistics that support the claim that Glennallen and Delta are starved for power.

It doesn't take a genius to figure out why, wherever there are high voltage power lines erected near residential communities, property values plummet. It's ugly and unhealthy. This drop in value has happened across the country over and over wherever these lines have been put up.

I would greatly appreciate any further information you may have on the subject.

Thank you for your time.

Sincerely,

Wayne Clark

Wayne Clark Resident

Dary Harrison Chickeloon Village treasurer - Chickeloon Moose Creek Nature association Inc. President

Warrent Staffer Chuckeloon Resident

Susan Aucher Coneuned Human Being

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Continued on Back

DOCUMENTATION OF PUBLIC COMMENTS JUN 21 1993 ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY ALASKA ENERGY AUTHORITY

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Ken KyAr

	Mailing Address:	BOX 19091 Andorage	3 AK 9951	9-0913
		LANDOWNE	R-CHICKA	LOOP
	COMMENTS: I STROK	OGLY OPPOSE	INTERTIE	BECAUSE
	t will wreck the akes no economic	pristine natur sense.	e of my "	BACKYARD
3) W	. Il force others	to subsidize	CUE a	istomers.

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JUN 2 8 1993

UDY ALASKA ENERGY AUTHORITY.

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Name of Person Commenting: Mailing Address:	MICHAEL H. EVANS
	HCOI BOX 6205
	PALMER, AK 99645
•	-122

COMMENTS: WHAT seems LIKE a LOGICAL SOLUTION that would be wild Benifit every body involved, (not JUST GLENNALLEN) would to Build BENIFIT every body involved, (not JUST GLENNALLEN) would to Build a Gas LINE from Palmer to Glennallen. At the END of the GAS a Gas LINE from Palmer to read Build a gas powered power PLANT, with LINE 1st the Glennallen would benifit a ways, a more Reliable Electric Jource plus an alternate energy source. DAI so the number of Communitary Between the Two points would benifit from the natural was. (They won't get any build prom Continued on Back the intertie) The Gas line would be buried thus not creating the eye sore this 1steptie would. The monies would be spread out to more types of Contractors nature it fairer for everybody.

COMMENTS: (Continued)

The power plant would create a number of perminate gols for the Glernallen area, where when the intertile is done, its DONE. Q when the GAS hime is Built from the NORTH Scope to VALDEZE, then a son Nect. GAS GRID will be established. The Glevn H.W. Could be brought up to Fed Standards with matching Fed. monies (THUS creating more Jobs) Simultaneously with the Gas line contruction, with the Gas Line using the He Newly improved Road Bed (and sharing some of Earthwork) along the H.W. Route.

The INTERTIE Seans With a GUICK FIX where the GAT LIVE would have a long term Benifit For the whole area from Palmer to Copper River Valley. The Cost would be more - But there is still more money in the Rail Belt Fund to accordate this concept plus The Fed mutching Funds for the H.W. Project.

IN Requested to the EXISTING options for the Intertie proposed Router - I would support would be the Buck Country route (I, E, Boulder Creek To Caribon creek - etc.).

Thunk you mulacel H. Com

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Name of Person Commenting: Mailing Address:	Dianne Milic P.O. Box 28 Sutton Ak 97674
2. The school is too che 3. The UGLINESS of will permanently scar 4. I don't want my efforts to induce in by don't care about	one back to Michigan.

7.) The high voltage wires will be an ENDLESS MAINTENANCE COST. We have high winds and heavy knows that cause intense drifting. They would also be targets for vondalism NOT JUST BY KIDS, EITHER. People have moved here to have freedom from big businesses 8) Did ANPONE ASK WS IF THE WANT IT! IT IS LBAD PUBLIC RELATIONS (9.) We 29,000 users in the Most Valley ore Jeing asked to Suffer for the 2,600 users in Copper Valley. 70 million dollars is \$26,923.07 per person. ARE YOU ALL CRAZY? That work be like introducing a project in the Mad Valley at a Cost of 783 Million dollars. Where is the benefit? 10) THERE HAVE TO BE ALTERNATIVES!

(1.) Those high power lines are already.

DINOSAURS, in other parts of the U.S.

DINOSAURS, in other parts of the U.S.

(2.) We already need energy assistance because of the high unemployment rate. Howe you considered a roll high unemployment rate. Howe you considered?

JUL 0 7 1993

ALASKA ENERGY AUTHORITY 7-1-93 Entrance, Rock

	So you can tell by this Short Story Woul, I am enraged By this whole
	Would a consequel Buthin whole
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	Thing Clematter is not my problem,
	and my View is my Rubler S.
	One my View is my Roblem So lets take Care of Both Roblems
	+ find another way to Shin the
	lights in Clematter!
<u> </u>	So I ask for this because
:	this will be my Returned Home
,	Soon, Don't make me Start
	all over again Jooking & Start
***************************************	to build all over again.
	Kon Coll maria Coll
	maria Coll

	CC: Henre filo
	-c. Asia for
ayan — Karda salip ayan dikindiga — engayay atiyana kan ta kan	
	(30/3)
a construction of the cons	(3.07.3)

the people in the Copper Valley area can just to lower their power costs.

We have a blantiful and very large state. I feel it would be a great injustice to deface such a scenic + graye gorgeous stretch of highway. There has to be an alternative.

Sinccrety, Barbara Leppanen

June 1993

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Name of Person Commenting:

Mailing Address:	Box 364
	Sutton, AK 99674
COMMENTS: Jm 1140	y much against this
intertie project,	for several reasons.
1. clin concerned	about health risks to ildien.
my young ch	ilder.
- clown a story	you blowness in the sten
Hwy. elt wa	eld be a true eye-sore
to our blanty	ul area.
3. It would ope	n up to much area for
flople to distu	n up to much area for is the wildlife & hunting
4. What risks wo	uld it have on the wildlife,
health There for	uld it have on the wildlifes we leading to health risks
to UD.	AIPR

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Name	of Person	Commenting
Name	OF T CIPOTI	COTTITUDATION

Mailing Address:

HAMO L	arru	1 Lepi	YMER
HC 03) i	
Palmer			15

COMMENTS:

I am against this intertie, for the following reasons.

1. Health risks to my family.

2. Impact on my tourism business.

3. Disturb wildlife chunting areas.

4. Health risks to wildlife.

I'm sure there's an alternative for

Copper Valley's electric problems. I feel

they should have Cheaper fower, but not

at our expense.

Larry Loppaner

June 1993

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Name of Person Commenting:	Sharon Dunlap
Mailing Address:	P.O. Box 17
	Sutton AK 99674
COMMENTS	

The intertie project is a very expensive project that would elect the wildlike and the intertie and the intertie project. The negative results but outweight the positive results in the project. The intertie is a wanter do funds for the small community of Glernalder.

June 1993

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Name of Person Commenting:	Marget emlap
Mailing Address:	P a Buf 17
	Sutton, AK 99674
COMMENTS:	
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would disrug	et hust.
habital	unhealthy, ugly, et hunting, and animal
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Name of Person Commenting:

Mailing Address:

Van M. Dilliam
12301 Johns Road,#21
Anchorage, Alaska
995-15

Jun property near mi. 83, 6 lemme Juny - Strongly oppose intertie going up main Mat-River corridors or win Vilor & Bonnie Lake, or win Vilor & Bonnie Lake, was the other options be fully researched Considered to provide adequate researched Considered has hear in mind power but to also blan in mind power but to also blan in mind former factors onch as natural beauty of the factor of the factor. The factor of the factor.

6, surfield St,

LOLDON WIR OHN, U.K

5.8.93

AUG 1 8 1993
ALASKA ENERGY AUTHORITY

Dea or Emernar,

we save just returned from a wonderfue 3 week racation is Alaska spending time is benaus , are matchinta racien. You are so welly to we is me a maniful, aramanie country. That is why leaving that you were even considerly consultating on weartie reens Lad to selecte. It would destroy we seawing of the windersen of we would peel a very quickly a priorcial Liebility. To wists do not go to Alanza to see power was - if that were the case very would not read to leave beir backyards. The winderson of Alaska reeds to remain wild. Le is a unique place - don't bruig it down to be uner of the rainised world!

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would rear much more fuicinity
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without destroying the environment I'm much this could be done with
interement.

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2 visitors to Alasta who totally

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special place for the sale of a

tell don'd run.

Yours sicerely

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lichan Zell

2561 Lovejoy Drive Anchorage, Ak 99508 August 30, 1993

Dick Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

Dear Mr. Emerman:

Brent Petrie asked me to send you my suggestions on the routing of the Glennallen intertie even though it is a bit late in your process. I know part of the area quite well. I am the author of 55 Ways to The Wilderness, a popular southcentral hiking guide. Two of the trails in the book are part of the intertie route alternatives. I have walked both of these areas several times. We also have had a cabin in the Dan Creek drainage for 25 years.

I urge that the justification for running this line be really strong before it is built. This stretch of Glenn Highway and the mountains on either side are some of the most magnificent in the state, both for the highway traveler and the backcountry recreationist. These uses will become increasingly important and valuable over time. All possible power source alternatives should be exhausted before building a powerline through this area. If this loan were applied to some other source, would it become feasible? I'm sure legislators would be willing to consider reappropriating the funds if the study were to find alternatives.

Though not building this line is my recommended alternative, I do have suggestions for the least harmful routing for part of the line. I am enclosing a set of maps with my route suggestions. The part of the route that I know well is from Chickaloon to Eureka or Pass Creek.

The main criteria for route siting should be to have as little impact as possible on existing uses. That means siting it away from the magnificent views afforded by the Glenn Highway, away from existing homes, and away from pristine or relatively pristine recreation areas.

In general I would favor routing the line along the Glenn Highway corridor where it can be routed away from homes and where it will not detract from the magnificent views that highway affords.

I have not looked at whether this is feasible or not because I do not have the information on where the homes are. If it is necessary to route it away from the Glenn Highway, I have the following suggestions for the area that I know. The overview of my recommendation is to go up Boulder Creek to just beyond the Simpson Cabin, go along the bench in front of Anthracite Ridge, using the alternate routing back against the ridge, then go up Hicks Creeks to Caribou Creek, and along Caribou Creek to Squaw Creek.

A more specific description and explanation is as follows: starting from the east end of route

segment S 3-4, I urge the alternate S 4-5. Do not go up Boulder Creek or over Chitna Pass. This is a beautiful, relatively pristine area—particularly the pass. Brent had the impression that Boulder Creek had been torn up but that is not the case. There is an ORV trail that goes up the river but it is not overly intrusive. The pass is beautiful and has only a horse trail over it. A powerline would change the character completely—in my mind, it would destroy the area as a wilderness hike.

Routing the powerline in front of Anthracite Ridge is the lesser of several evils. The alternate route there is set back against the ridge and thus would be less obtrusive, since the main view from the broad bench is of the Chugach to the south. Please do not use the main S 4-5. The trail in our book follows the Chickaloon-Knik-Nelchina trail along that bench in front of Anthracite Ridge. The view from that trail of the Chugach is one of the most magnificent I have seen. A powerline in the foreground would destroy it. A powerline set back against the ridge would be preferable.

From the east end of S 5-6, please follow S 6-8 up Hicks Creeks. This valley is indeed badly scarred by years of ORV use over marshy ground. A powerline ought to be sited where there is already some development rather than in pristine areas. Hicks Creek is not pristine. On the other hand, Dan Creek is pristine—a lovely relatively untouched valley.

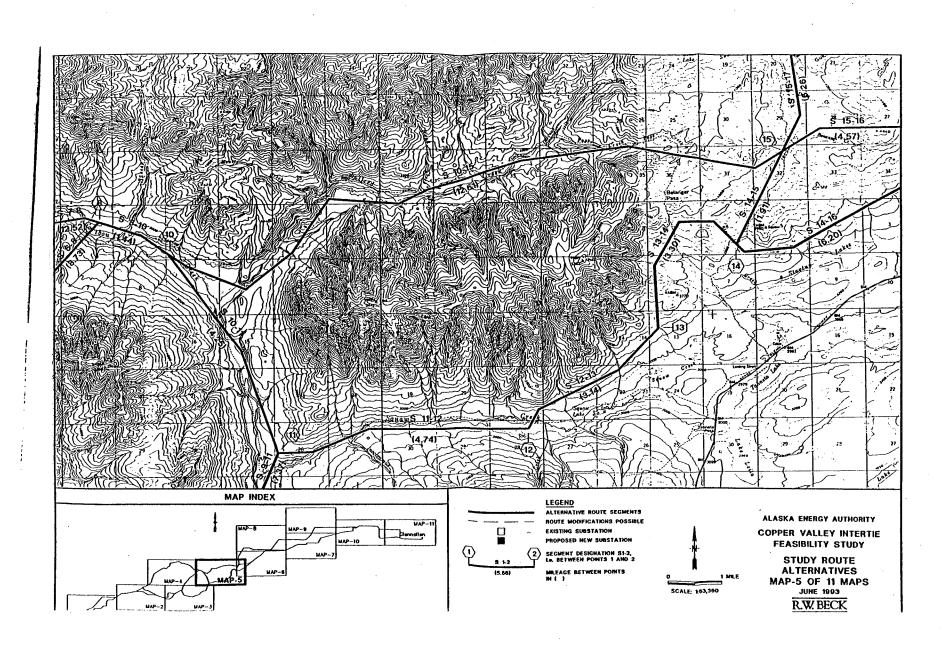
From Caribou Creek and S 7-8 I do not have a strong preference. Alfred Creek is shorter and already heavily impacted by mining. On the other hand it is a narrow canyon in many places and would be hard to make unobtrusive. For that reason Squaw Creek is probably preferable even though it means bringing the line around the west end of Syncline Mountain where I do not think there is much development at present. I would urge that landscape architects look at how to site the line in Squaw Creek to make it as unobtrusive as possible from the Squaw Creek road which is receiving increasing recreational use as well as hunting use.

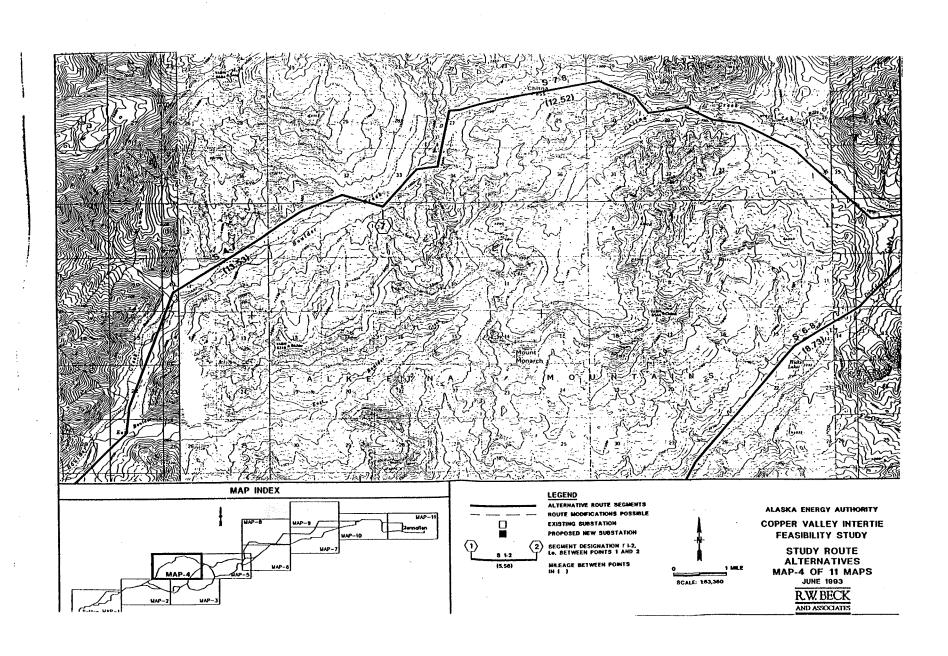
I hope that these suggestions will be useful to you and that you can send them on to join the others if you have already passed the main group of comments on. I would like to know what your final recommendations are.

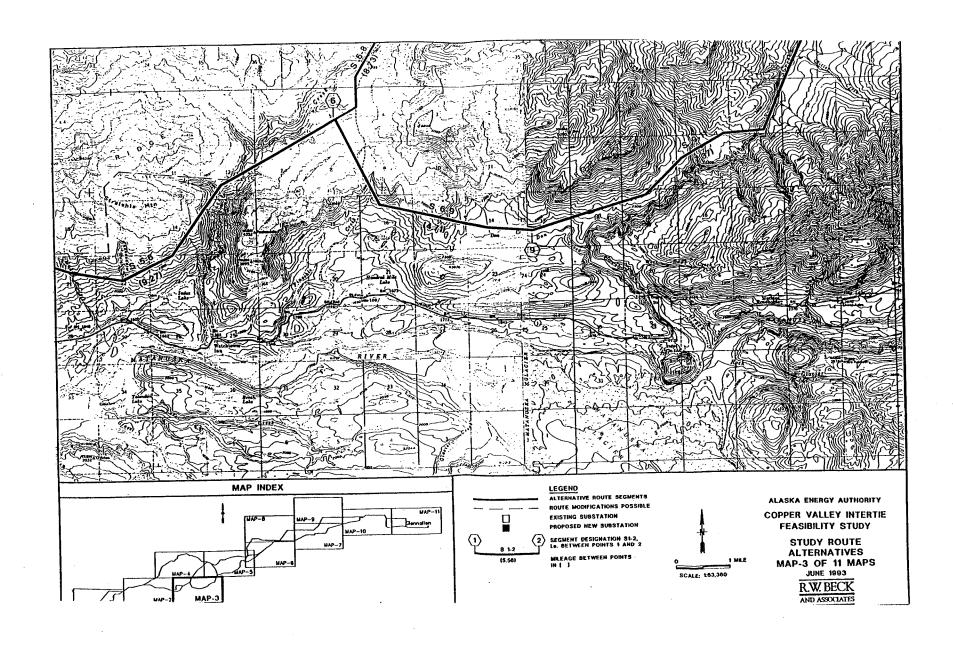
Thelen D. Mienhuesen

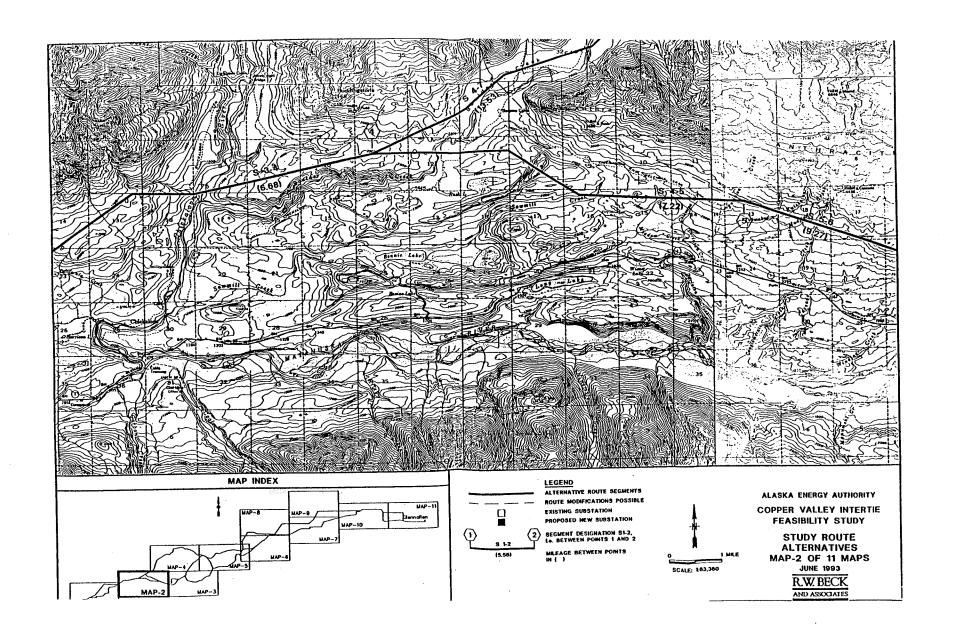
Helen D. Nienhueser

cc Brent Petrie









ustees for A

A Non-Profit, Public Interest, Environmental Law Firm

September 7, 1993

John Heberling

R.W. Beck & Assoc.

2101 4th Ave., Suite 600

Seattle, WA 98121-2375

VIA FACSIMILE: (206) 441-4964

OCT 12 1993 R.W. BECK & ASSOCIATES SEATTLE, WA

Sutton-Glenallen Intertie, Economic Feasibility Study

Dear Mr. Heberling,

On behalf of the Alaska Center for the Environment (ACE) and Trustees for Alaska, I am writing to express concerns about the proposed electrical transmission intertie between Sutton and Glenallen. Both ACE and Trustees have members who live in, use and enjoy the region which would be adversely impacted by a Sutton-Glenallen intertie. For a multitude of reasons, constructing an intertie in this region makes no economic sense.

As an initial matter, the scope of an economic feasibility study of an intertie must include a study of the reasonable alternative sources of power available to the Copper River region. The alternatives which should be studied include, at a minimum:

- * conservation measures;
- * geothermal projects;
- * increased efficiency diesel generators using the latest technology concerning atomizers;
 - * hydroelectric projects;
 - * a coal-fired power plant.

We do not suggest that these alternatives are necessarily preferable, from an economic or other perspective, to an intertie. A feasibility study which does not at least consider them, however, would not be helpful and would most certainly be flawed. See AS 44.83.181.

There are also many other factors which must be considered and discussed in an economic feasibility study for an intertie project, including weighing the costs and benefits of an intertie and determining the potential effect of the intertie on the environment. AS 44.83.181. Some of the factors which should be studied include, but are not limited to, the following:

* impact on tourism due to the effect on the viewshed;

* impact on the economy of people who live along the intertie corridor;

* impact on the lifestyles/quality of life of the people who

live along the intertie corridor;

* likely increase in hunting effort due to increased access and how this may impact the already limited wildlife resources of the area;

* impact on other recreational uses of the region;

* impact on the health of the people in the region due to electro-magnetic radiation;

* impact on area due to increased access from roads associated

with the project;

* impacts on adjacent BLM land;

* impact on wetlands in the region;

* impacts on moose populations in the Matanuska Valley moose

range;

* impacts on fish species due to erosion from construction and maintenance activities and increased fishing effort due to increased access;

* impacts on the Copper Valley migratory bird fly-way, including impacts on trumpeter swans, peregrine falcons and bald

and golden eagles.

We urge you to take this opportunity to prepare a fair and detailed analysis of the economic feasibility of the proposed intertie; one which takes into account all the potential impacts of the intertie and the significant concerns of the people in the region, and in Alaska, to an intertie in this area.

If you have any questions, please do not hesitate to call.

Sincerely,

Peter Van Tuyn

cc: Alaska Public Utilities Commission Bureau of Land Management U.S. Fish and Wildlife Service Alaska Department of Fish and Game Alaska Department of Natural Rescurces

R.W. BECK & ASSOCIATES SEATTLE, WA



October 6, 1993

Chris Rose Co-Chair ACRED General Delivery Sutton, Alaska 99674

Mr. Richard Emerman Project Manager Sutton-Glenallen Intertie P.O. Box 190869 Anchorage, Alaska 99519-0869

Dear Mr. Emerman:

During this past spring and summer many residents along the Glenn Highway expressed their opposition to the proposed Sutton-Glenallen intertie by attending meetings and writing comments to the the now defunct Alaska Energy Authority. However, most of those same residents feel like their concerns have been downplayed, especially by the utility interests in the Copper Valley (CVEA) who have been working so hard behind the scenes to get the project approved with as little public participation as possible. In response to the situation, Alaska citizens opposed to the intertie have recently formed a citizen's group named Alaska Consumers for Responsible Energy Development (ACRED). This letter's purpose is to outline the reasons ACRED is opposed to the intertie and to notice all parties involved that ACRED is prepared to:

- 1) lobby against the feasibility and viability of the project;
- 2) oppose the necessary permitting of the project and;
- 3) enlist legal assistance to fight the project.

Before going into the specific problems ACRED has with the <u>substance</u> of the project, we would first like to point out the problems we see in the <u>process</u> thus far.

First, we believe that the legislature's appropriation of money for this project last spring (subject to an approved feasibility study) violates the intent of Alaska Statutes 44.83.177-187 which clearly contemplate an approved feasibility and a plan of finance before the project is submitted to the legislature. The intent of such a process is obvious: If a project has not yet been deemed feasible, no state monies should be thrown at it.

Second, we believe the public comment four years ago in the reconnaissance study phase of the project is inadequate to address the intertie contemplated today. The project contemplated in the 1989 "Railbelt Intertie Reconnaissance Study: Northeast Transmission Intertie Project" was of a different scope than the current project. More importantly, comment from four years ago is too removed in time to be meaningful. The general proposal outlined in the late 1980's was nowhere near as immediate to concerned citizens then as is the newly re-vamped project which surfaced so rapidly last spring.

Third, comment taken since last spring has been inadequate. Meetings were always characterized by Energy Authority staff as "informational". The meetings were held in the summer, the most difficult time for concerned residents to take time out to investigate the project. And finally, no official public testimony was taken.

Fourth, comment on the forthcoming economic feasibility study also appears destined for inadequacy. The initial plan was to have a draft feasibility study completed by mid summer. Residents were led to believe they would have the opportunity to comment on the draft. However, it was then announced that instead of a draft study coming out in July and a final draft being ready near the end of the year, residents were informed there would be no summer draft and a final study would come out in the fall.

Finally, the Energy Authority never solicited public comment from residents of Palmer, Wasilla, or Anchorage. There are people in all those communities who use the area along the proposed route of the intertie and would like to comment on the proposal. The end result of all of the above deficiencies in the comment process has been still less public participation. One of ACRED's missions now is to get the word out about the intertie to people in all affected communities.

Now we would like to briefly outline the reasons for ACRED's opposition to the intertie.

I Alternatives To The Intertie Have Not Been Fully Explored

First, we are not convinced that:

- 1) a true <u>need</u> has been shown for a different source of power in the Copper Valley and
- 2) whether the goal of lowering or stabilizing electric rates in the Copper Valley justifies the economic and social costs an intertie would bring along with it.

However, if Copper Valley does need more power, we believe that alternatives to the intertie do exist. These alternatives include:

- 1) The hydroelectric potential of the Copper Valley region which has not been been adequately explored;*
- 2) Higher efficiency diesel generators that use atomizers to increase efficiency and reduce emissions;
- 3) A co-generating coal fired plant in the Glennallen area* and;
- 4) Conservation measures in tandem with any of the above.*

*the Reconnaissance Study ordered by the Alaska legislature in July of 1987 asked for:

A REVIEW AND EVALUATION OF RAILBELT ENERGY POWER ALTERNATIVES INCLUDING <u>COAL-BASED</u> <u>GENERATION</u>, NATURAL GAS-BASED GENERATION, <u>CONSERVATION</u>, THE DEVIL CANYON HYDROELECTRIC PROJECT, AND OTHER <u>HYDROELECTRIC ALTERNATIVES</u>.

Excerpt from capital budget passed during special session, July 1987 (emphasis added).

The bottom line is that the intertie has too many social and economic costs to justify it as the alternative to meet any increased needs CVEA may have.

II The Intertie will Adversely Affect Our Quality Of Life

Residents along the proposed route from Sutton to Sheep Mountain are near unanimous in their opposition to the intertie. At stake for many is a quality of life that people have sought out and found in the Matanuska Valley. Adverse affects the intertie will produce for our quality of life include:

- 1) Unsightly transmission lines in one of the most beautiful populated valleys in the state of Alaska. These have the potential for adversely affecting a tourist-based economy that many people along the route now depend upon.
- 2) Invasion and opening-up of wild places. Construction and maintenance of the intertie will bring with it noise, access roads, and people. All this activity will damage the essence of the wilderness along the front range of the Talkeetna Mountains.
- 3) The access roads mentioned above will also provide increased hunting access to the backcountry which will increase the competition for game resources that are already becoming scarcer.
- 4) Construction of the intertie will damage and alter the historical trail system that has been in place since the beginning of this century.
- 5) Construction of the intertie will damage Native American cultural resources along the route.
- 6) Construction of the intertie will essentially ruin the aesthetic character of several high-use recreation areas, including Boulder Creek and Chitina Pass.

For all of the above reasons, we feel that any marginal economic benefits to the citizens of the Copper Valley from the intertie that may exist are heavily outweighed by the social costs to the residents along the intertie's route.

III The Intertie Will Have Adverse Environmental Affects

Finally, ACRED is concerned about several environmental issues that are raised by the proposed construction of the intertie. These include:

- 1) Concerns about impacts to peregrine falcons along the proposed route. The falcons are protected by the Federal Endangered Species Act (ESA).
- 2) Concerns regarding impacts on nesting bald and golden eagles along the proposed route. The Bald Eagle Protection Act prohibits the taking of eagle tree nests. Furthermore, Anthony and Issacs, in a 1989 publication for the Journal of Wildlife Management, recommend that human activities be restricted within 800 meters of nest sites during the breeding season, which, in Southcentral Alaska, extends from April 1 to August 31.
- 4) Impact on migratory birds in the Copper Valley flyway that may collide with the powerlines, especially the threatened trumpeter swan, also protected by the ESA.
- 5) Adverse environmental impacts on Bureau of Land Management (BLM) land the proposed route would cross. These impacts will need to be addressed in an Environmental Impact Statement (EIS) as required by the National Environmental Policy Act (NEPA).
- 6) Impacts to moose populations in the Matanuska Valley Moose Range. We are especially concerned about the impact of new service and access roads that will increase hunting access for metropolitan hunters.
- 7) Impacts to other species of wildlife from the above mentioned access roads.
- 8) Impacts to stream fish populations affected by erosion of soils resulting from the construction of the intertie and its associated access and maintenance roads.
- 9) Impacts of increased noise levels on wildlife as well as humans. This noise level will increase both as a result of

construction and maintenance of the intertie, as well as increased use of the affected areas via the access and maintenance roads.

- 10) Impacts to freshwater streams caused by work in, or crossing of, streams during construction and maintenance of the intertie.
- 11) Impacts on significant areas of wetlands the intertie would cross.
- 12) Impacts on humans and wildlife from electro-magnetic fields (EMFs). These EMFs are highly suspected of causing cancer.

This letter does not contain an exhaustive list of our concerns. We are in the process of investigating other possible impacts the powerline may have, as well as arranging to obtain an independent economic analysis of the viability and feasibility of the intertie. However, we hope that this letter will help all the parties involved understand how serious our concerns are. We also hope it helps those involved understand how determined we are to see that those concerns are met. Please feel free to contact me if you have any questions or comments. Thank you for your consideration.

Sincerely,

Chris Rose

Co-Chair ACRED

Krin Ros

cc.

R.W. Beck and Associates
Trustees for Alaska
Alaska Center for the Environment

Alaska Public Utility Commission U.S. BLM, Regional Office U.S. Dept. of Fish and Wildlife, Regional Office Alaska Dept. of Fish and Game Alaska Dept. of Natural Resources Alaska Dept. of Community and Regional Affairs Board of Directors, MEA Board of Directors, CVEA Alaska Public Interest Research Group Chickaloon Village Traditional Council Matanuska Susitna Convention and Visitors Bureau Anchorage Convention and Visitors Bureau Alaska Office of History and Archeology Alaska Division of Tourism Matanuska - Susitna Borough Assembly Alaska Visitors Association

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because: GENERALIZATION. Community Impact, ENVIRONMENT IMPACT

Name: JESSC. TREMAINE

Address: Box 1242

ChickAlooN, Alaska 99674

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because: My reighbors will move to Michigan

because of the EMF on their property

Name: MIRO MILIC

Address: Box 28

SUTTON, AK. 99674

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because: Dean't believe to land I bought will be runed and uninhel . Table by this intertie 60 million to serve 5000 of us ! Outro good Name: This is unnecessary and political flem flaton.

Address:

Address:

Anchorage, AK. 99510

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because:

We are counting on tourism to Come to the Valley for our income. Name: Dianne Milic

Address: Box 28

Sutton, Ak. 9967+

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because: BULLD A POWER PLANT IN GLENNAULEN

Name: NERLE D. JOHNSON

Address: PO. Box 277

SUTTON AK 99674

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because:

Name: Janes Kelsett Vicke Kindsett

Address: P.O. Box 1200

ChiEKaloon AK. 99674

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because: Live Directly under the PROPOSED SITES.

Name: ChrisTopher Eric Rhea

Address:

HC03 BOX 8374-B PALMER AL 99645 MILE POST 95 GLERN LWY VICTORY ROAD

Dear Commissioner Blatchford:

I am opposed to the construction of the

Sutton to Glenallen intertie because:

I am not convinced it is helded
Other options not thorough discussed

Name: and because it might be being
posted to power a military

Address:

Operation alled MARKE

Tom lei Box 2771 PALMER 99645

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because: The State Carnot afford a no interest LOan. Alternatives have not been pursued.

Address: Box 344

Talketia, AK 2960 76

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because: It is a wigste of Alaskians inclining do build A power line that costs this much Rame: 1 8,000 I Also baliance the

COPPAR Dalling Whility has Address:

JJ Doyle Box 1121 Chickploon AK 99674

trind do unduly influence
the feasibility afudy in
there favor A cool sinst would provide 500s in Skuteral Runal propose where prople NARD WORK

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because:
They can't give proper Sevice to the Mat-su
Valley - espically the Chickaloon area - Fower
is Constantly out at the slighest storm or wind
with spend millions for an intertie when theirs ned
Name: of an up grade service in my area.

> 90 BOX 223 SUTTON, alaska 99674

DaDear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because: Of the negative impact on the source

beauty of the Mutanuska Vallex.

Name:

Jim Bauer

Address: Box 172

sutton AK 99679

Dear Commissioner Blatchford:

I am opposed to the construction of the Sutton to Glenallen intertie because:

1) Cost: benefit ratio negative 2) freferred economic and environmental alternatives 3) Negative effect, long-term AND start term on two ism

Name: Michelle Schuman, Ew. Sciontist

Address:

70 BOX 242 Sutton, AK

DOCUMENTATION OF PUBLIC COMMENTS ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

You are invited to comment on the proposed Copper Valley Intertie Project which would consist of a 138-kV electric transmission line from Sutton to Glennallen. The Alaska Energy Authority is conducting the first Phase of a planned two-phase feasibility study of the Intertie. Two sets of public meetings will be held in Phase 1 at which comments may be voiced. Phase 2 of the feasibility study will follow in the second half of 1993, if funding permits, and would include one additional set of public meetings.

The comments of all parties who may be affected by the construction and operation of the Intertie are important to the study. Verbal comments will be recorded at each public meeting. In addition, this comment sheet is provided as a convenience to any party wishing to comment. However, use of this comment sheet is not necessary in order for your comments to be considered. We request that any comments be as specific and detailed as possible. Do not feel limited by the space provided; attach additional sheets as necessary. Attached for your reference are seven maps showing two preliminary route alternatives identified as a starting point for the feasibility study.

Please submit your comments as soon as practical to the following:

Mr. Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

Comments will be included in the reports provided they are received at least two weeks prior to the publication of the reports. Tentative dates are June 15, 1993 for the Phase I report and October 1, 1993 for the draft Phase 2 report.

Name of Person Commenting: Mailing Address: JAN. 157 1994 S.L.	Am LOSNA LOEB RO. BOX 1211 CHERLAGON, ALASKA 99674
COMMENTS: WE HAVE BEEN KESS	ROPOSED INTERTIE PROJECT THROUGH THE PROJECT BESNE - DERECTLY
OUR AREA. ASSE FROM	THE PROJECT BESNE DERECTLY
ACROSS FROM OUR HOME	ON FASH LAKE LOAD, Continued on Back 25 CERTAINLY PLAY A PART AS WELL

1 DESTRUCTION OF NATURAL HABITAT WHILE CURRENTLY
EXISTS.

2 OPENS A PATHWAY FOR INFLUX OF HUNTERS IN
AREA AND CERTAIN OPPORTUNITIES OF TRESPASSING
ON PRIVATE AND NATIVE LANDS.

3) POTENTIAL FIRE HAZARDS IN REMOTE AREAS WITH
THE HIGH VOLTAGE LINES IN TURN WOOLD BORN
THOUSANDS OF ACRES OF PRIVATE, NATIVE +

STATE LANDS. ACCESS TO FIRES IS VIRPALLY IMPOSSIBLE

EXCEPT BY AIR.

4 HAZARDS FOR LOW FLYING ASKERAFT WHICH

FRE QUENTLY CONFE LOW IN AREA DUE TO WEATHER

COLUMNSONS.

IT IS TYRICAL THAT A PROJECT WOULD EVEN BE
CONSEDERED WHEN OUR BASIE CLECTRIC WHICH IS IN PLACE
HAS NEVER RUN 3 WHS. CONSECUTIVE WITHOUT AN OUTAGE
SINCE THE SERVICE WAS MADE AVAILABLE. WHY UPGRADE AN AREA
SO FAIL AWAY WHEN THE UTILITIES THAT ARE IN PLACE HAVE
NOT BEEN FIRE-TWED. LETS BE REALISTIE, SCRATCH THE
PROJECT AND TAKE CARE OF WHAT'S CURRENTLY IN PLACE—

12/19/93 BOX 344, Talketra, AL 9967 WEBEIVE JAN104 1993 Dear Commissioner Blatchford This regards the proposition & REGIONAL AFFAIRS intertie from Suttin to Glerallen. I am opposed to this intertie for economical, enuronmental, + Community impact reasons. 1) Economical This is a park barrel project You officials cry about a budget brunch but keep funding unneeded projects. It is praktically a subbidised project to encourage expansion of industry and whilitary Let industry put up themoney for clearing needs. 2) Enveronmental If there is a nEED for more electrical output, alternatives need to be pursuled. . Onegy conservation, energy efficiency The impalt on the enurunment will be detrimental Douned trees would encourage spruce back beetle infestation. Ot well open up access to the area which will impact animal populations & their habitat

3) It will change the community. Iknow this from experience that having lived near the construction of intertier near Talkertha. The construction phase brought creme into our community.

Jam also concerned that the fearibility study well not be an independent or impartial study due to the influence of the Copper Valley Electreeal association. They have met with the consultants.

This is to request you put me into the bureactatic Loop in order to beable to comment on the draft study.

Becky Leng cc: Office of Management & Budget Senatur Joy Kerttula Representative Menaid Ak. Industrial Development & Export authority



JAN104 1993

PO Box 1911 Seward, AK 99664 (907) 224-5111

COMMUNITY & REGIONAL AFFAIR.

December 30,1993

Edgar Blatchford, Commissioner Department of Regional and Community Affairs Room 217 Community Building PO Box 112100 Juneau, AK 99811-2100

Dear Mr. Blatchford:

Please save the State of Alaska \$60,000,000 by <u>NOT</u> approving the Sutton Glennallen intertie.

I lived at milepost 105 on the Glenn Highway 2 years ago amidst the beauty of the Matanuska Valley. I met no one in the area who approved of the intertie. \$60 million is a tremendous amount of money and this project would benefit very few people and scar a wonderful area. With the present budget crisis we can no longer afford these pork barrel projects. If distributed among Alaska's residents, this \$60 million would be \$120 for every man, woman, and child.

Please <u>REJECT</u> the R. W. Beck feasibility study.

Sincerely,

Kevin Walker

Deborah L Walker
P O Box 246
Sutton, Alaska 99674 December 28,1993

DEC 23 1993

Commissioner Edgar Blatchford

NER'S OFFICE

Y®IONAL AFFAIRS

P. O. Box 112100

Juneau, Alaska 99811-2100

Dear Mr. Edgar Blatchford,

This letter is to let you know that I am in strong opposition to the Glennallen Intertie that MEA wants to construct.

At first when I learned of this project, I was neither for or against it. But then last weekend when I went home to my house mile 72 and a quarter on the Glenn Highway, and faced another 4 hours of plowing the snow from around my house and opening up my driveway, only to discover the power was out, and it remained out till the following afternoon, I was really mad.

I go through these power outs every year like clock work, and it remains out for at least a minumim of 4 hours before there seems to be anything done. The month of Oct. it went out because of high winds, when I called in the comment I received was that there must be a tree on the line out there that was causing my power to surge, and that it should burn itself through the line any time now.

Every year, I get the same excusses that theres trees on the line, or that the transformer is worn out and it hasn't been brought up to date.

Well, if MEA can't keep the people in the Sutton, Chickaloon areas in power during the winter months, or high winds, or up date transformers then Why Should MEA and the State spend up to \$ 60 Million dollars, according to the research figures of ACRED and only serve 8,000 to 9,000 people?

I don't want to see anymore of our money, state, or revenue bonds by the Alaska Industrial Development and Export Authority be squandered on any projects until the power in my area can be stablized. If the power hadn't been off for as long as it was, I would have been able to unthaw my waterline, now it remains froze and most likely will remain frozen until this spring.

Sincerely Deborah Walken Chickatoon resident 745-3521

An Open Letter To:

Board of Directors Copper Valley Electric Association P.O. Box 45 Glennallen, Alaska 99588

Dear Ladies & Gentlemen:

I have followed with great interest CVEA's actions in obtaining funding for the Sutton to Glennallen intertie. As a past Board member and legislator, I have been totally supportive of finding ways to lower our exorbitant electrical rates.

I am quite concerned though that the manner in which the legislature has passed a bill to fund this intertie with a loan, rather than a grant, is not going to lower our rates. As I read the legislation CVEA members will have to pay back to the state thirty five million dollars over fifty years. That works out to \$700,000 a year. We would also have to borrow, at market rates, as much as ten million more dollars. This would make CVEA's payments about a million dollars per year.

My understanding is that CVEA would also be responsible for the maintenance and upkeep on the line for the same fifty year period or for the life of the line. With our existing tie line between Valdez and Glennallen, the state pays for the maintenance and any major problems, such as repairs after an avalanche.

When we were sold on the idea of building Solomon Gulch Damn and the Intertie over Thompson Pass, we were under the impression that our rates would be reduced because of their construction. But ever since they were built, people have used them as excuses as to why our rates are so high.

I ask that the Board of Directors take all the time they need and obtain every bit of information necessary to determine that funding this intertie with loans will absolutely cause our rates to be lowered

substantially. Take into consideration the worse case scenario, because it often seems that the worse case scenario ends up being reality. Consider:

- 1. Can we afford a 35 million dollar no interest loan, paid back over fifty years?
- 2. How much more would we have to borrow at market rates?
- 3. What will be the cost of maintaining this line?
- 4. How will we pay for major repairs such as those caused by an avalanche?
- 5. What is the life expectancy of the line? Will we have to rebuild it before it is even paid off?
- 6. We had this as a partial grant in the Senate version; is there some other way to fund this project that would put a smaller debt on our co-op?
- 7. Finally, are you completely sure that when this tie-line is complete, our electrical rates will be reduced and stay reduced for the life of this loan?

Everyone wants to see our electrical rates reduced. It is the main disadvantage that most businesses have in competing with other communities around the state. It is also a substantial cost of living in the area for every resident. We know that you, as a Board, have been working hard to get this funding. But you need to be extra careful now to be sure that this is the best course of action for CVEA to take. You need to be extra sure that this is the best deal that CVEA can get. We can not afford another disastrous period of prolonged excessive debt.

Thank you.

Gene Kubina Box 2463 Valdez, Ak 99686

RECEIVED

DOCUMENTATION OF PUBLIC COMMENTS ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

APR 1 2 1993

ALASKA ENERGY AUTHORITY

You are invited to comment on the proposed Copper Valley Intertie Project which would consist of a 138-kV electric transmission line from Sutton to Glennallen. The Alaska Energy Authority is conducting the first Phase of a planned two-phase feasibility study of the Intertie. Two sets of public meetings will be held in Phase 1 at which comments reay be voiced. Phase 2 of the feasibility study will follow in the second half of 1993, if funding permits, and would include one additional set of public meetings.

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Please submit your comments as soon as practical to the following:

Mr. Richard Emerman Alaska Energy Authority I'.O. Box 190869 Anchorage, AK 99519-0869

Comments will be included in the reports provided they are received at least two weeks prior to the publication of the reports. Tentitive dates are June 15, 1993 for the Phase I report and Cotober 1, 1993 for the draft Phase 2 report.

Name of Person Commenting:	SIMME PUCK MARY	_
Mailing Address:	Pi Ben 155 Junkaran Ak 99674	_
COMMENTS:	- , , .	
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property		

Continued on Back

DOCUMENTATION OF PUBLIC COMMENTS APR 2 2 1993 ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY ALASKA ENERGY AUTHORITY

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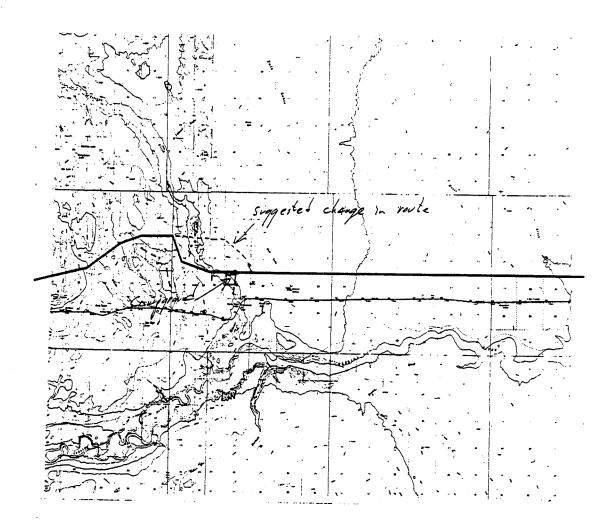
Mr. Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

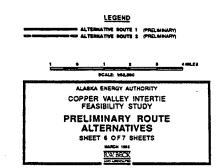
Name of Person Commenting:

Comments will be included in the reports provided they are received at least two weeks prior to the publication of the reports. Tentative dates are June 15, 1993 for the Phase I report and October 1, 1993 for the draft Phase 2 report.

Graham Word

Mailing Address:	Glennallon AK	99588
COMMENTS: My	campground, Tolsona le by Tolson Creek (Wilderness Compgrand (See map) and it
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HC60 Box 306T Copper Center, AK 99573 May 6, 1993

RECEIVED

Richard Emerman Alaska Energy Authority PO Box 190869 Anchorage, AK 99519

MAY 10 1993

ALASKA ENERGY AUTHORITY

Re: Sutton-to-Glennallen Intertie Feasibility Study

Dear Mr. Emerman:

My husband and I live in the Copper River Valley (Kenny Lake area) and purchase power from Copper Valley Electric Association (CVEA). I have several concerns about the proposed Sutton-to-Glennallen Intertie, specifically:

- 1) Will it be a good deal for the State of Alaska, or could greater benefits be obtained by spending the money in another way?
- 2) Will it be a good deal for CVEA consumers? (I have heard from many friends and neighbors that power rates went up after the Valdez intertie was completed.)
- 3) Are there health risks to people living near the proposed intertie? It sounds as if the scientific debate continues. I would not want to enjoy lower electric rates at the expense of the health of others.

I hope that the feasibility study will study these questions in depth and present its conclusions in clear terms that the public can understand. In addition, I hope that the study will compare the proposed intertie with other options, including:

- a "clean coal" power generation plant in the Glennallen area, utilizing Matanuska Valley coal;
- 2) a natural gas power generation plant, utilizing either North Slope natural gas or possible Copper River Basin natural gas reserves, when these resources become available;
- co-generation by Petro Star Refinery in Valdez, which (I have heard) is using about 25% of CVEA electricity;
- conservation, which has not yet been vigorously promoted by CVEA.

An objective assessment of <u>all</u> the options will be in the best interests of CVEA consumers and all Alaska residents.

Sincerely,

Ruth McHenry



HC O3, Box 8392, Palmer, Alaska 99645 Phone: (907)745-4203 FAX: (907)745-4206

May 28, 1993

RECEIVED

Dick Emerman Alaska Energy Authority PO Box 190869 Anchorage AK 99519-0819

JUN 0 2 1993

ALASKA ENERGY AUTHORITY

Dear Mr Emerman,

I appreciated being able to chat with you on the phone and update you as to our feeling in the Glacier View area on how the proposed power line is routed.

As, per our conversation, you mentioned that the present power line routing is scheduled to go directly in front of Anthracite Ridge, up Hicks Creek, over Pinochle Pass, over Dan Creek Basin, up to Caribou Creek, Alford Creek and on up the highway toward Glennallen.

At our Community Council meeting a number of our residents who hunt, fly and are actively involved in the back country have discussed the routing. They have even measured a back country route from the start of Boulder Creek all the way to the borough boundary lines near Nelchina. They found that it is the shortest possible route and has the least obstacles.

You mentioned in our phone call that there seems to be some difficulty getting over Chitna Pass. This is not as troublesome as the present routing going around Strelshla, up Hicks Creek and over in to Dan Creek. Those are formidable areas and would be extremely hard to maintain.

Also, during our conversation, we discussed the fact that on the front side of Streishla mountain is an Environmental Issue in the form of a rock glacier which contains large boulders with 15-20 feet of ice underneath them. While on the phone, I gave you the name of a man who has been dealing with that area, Mr Kerwin Krause. He is with the State of Alaska, presently in the mining division. He was formerly responsible for monitoring the rock glacier. His phone number is 762-2145.

We also noted during our phone conversation that presently there are nineteen schools from the Anchorage School District using the site of the rock glacier to hunt for fossils, as that whole area is filled with natural fossils. This is a place that, I am sure, would need an extreme amount of consideration in your environmental impact study to make sure that it met all the standards that have been imposed on a power line such as this.

It is presently my feeling, and that of many in our community, that the present chosen route is not a viable route for a structure such as a power line. And, it has been the stance of the Glacier View Community Council that to run the proposed Sutton-Glennallen Intertie line through the back country is a much better route.

Further discussion brought up the possible expense of maintenance, but in talking to the General Manager of Glennallen, he said that Copper Valley Electric Association will be maintaining the line by helicopter. So, we feel that it is much better to put the power line in the back country, where it is easy going up Boulder Creek, Caribou and Alford Creek and could eventually be maintained by a track type vehicle.

Your response to this letter would be very much appreciated so that we may maintain clear communications with you and your organization as you attempt to install this power line.

Sincerely

Stan Gillespie President/CEO

1db

BECEIVED

DOCUMENTATION OF PUBLIC COMMENTS ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

JUN 10 1993

ALASKA ENERGY AUTHORITY

You are invited to comment on the proposed Copper Valley Intertie Project which would consist of a 138-kV electric transmission line from Sutton to Glennallen. The Alaska Energy Authority is conducting the first Phase of a planned two-phase feasibility study of the Intertie. Two sets of public meetings will be held in Phase 1 at which comments may be voiced. Phase 2 of the feasibility study will follow in the second half of 1993, if funding permits, and would include one additional set of public meetings.

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Mr. Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

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Name of Person Commenting:

Mailing Address:

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Comments will be included in the reports provided they are received at least two weeks prior to the publication of

COMMENTS: WILL NOT BE MORING VERBOL COMMENT
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MATTERS CONCERNING THIS STUDY

Py O. Mose

COPPER VALLEY ECONOMIC DEVELOPMENT COUNCIL, INC. P.O. Box 9 Glennallen, Alaska 99588

RECEIVED

NOV 0 8 1993

November 4, 1993

DIVISION OF EMERGY/DCRA

Dept of Community and Regional Affairs Energy Division 333 W. 4th Avenue Anchorage, Alaska 99501-2341

To Who It May Concern:

Copper Valley Economic Development Council, Inc., would like to re-emphasize its support for the Sutton to Glennallen Intertie. Attached is a resolution, offering that support. As we have stated in the past, the construction of this line is essential to the region if we are to become a sustainable economy. The prospects of increased energy costs in the region negatively impacts the development potential for the region.

Enclosed you will find a copy of our Five Year Strategic Plan for the region. Over 150 residents participated in this planning process. Each discussion group emphasized the the need for lower energy costs.

We are vehemently opposed to the construction of a coal fired plant in the downtown area of Glennallen. Part of our Strategic Plan calls for the beautification of that area, to make it more appealing to not only the visitors to our region, but to potential business starts as well. The addition of a coal fired power plant, will detract and hinder those efforts. Downtown Glennallen sits in a hole and wood smoke has difficulty escaping, as would emissions from a coal fired plant. Glennallen has been installing a sewer system throughout the core area of town. The water requirements called for in the coal fired system would require massive improvements to a brand new system. There are no funds currently available to make those improvements.

CVEDC urges you to support this intertie and the benefits the region will see economically as a result. As identified by several State and Federal agencies, we have the potential to become a very economically sound region only if we can provide power in the region at affordable rates.



DCRA pg. 2 Nov. 2, 1993

Please look at the benefits to be gained for the majority of Valdez and Glennallen, rather than the small minority opposing the project.

We look forward to the construction of this line in a timely manner and the benefits our region will enjoy as a result.

Sincerely,

Donna Tollman **Executive Director**

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ce: Oke
Ur & resulution only
Dennis

COPPER VALLEY ECONOMIC DEVELOPMENT COUNCIL

RESOLUTION 93-007

SUPPORT FOR THE THE SUTTON TO GLENNALLEN INTERTIE

WHEREAS, the Copper Valley Economic Development Council is a nonprofit corporation with the State of Alaska, and was formed as a partnership of the public and private sectors of the Copper Valley region of Alaska to address the economic problems and potential growth of the region; and

WHEREAS, the Copper Valley Economic Development Council Board of Directors recognize the major limiting factor to economic development within the Copper Valley region is the high cost of electrical power; and

WHEREAS, the residents and businesses in the Copper Valley region receive central station service from Copper Valley Electric Association, Inc., and pay some of the highest unsubsidized rates in the State of Alaska; and

WHEREAS, Copper Valley Electric Association has continually looked for ways to reduce the cost of power in this region and has determined to date that the only permanent fix to the rate situation would be the Sutton to Glennallen intertie, connecting Copper Valley residents to the Railbelt grid; and

WHEREAS, stable or reduced electrical rates would support the economic development within our region, it would entice new businesses as well as encourage current businesses to expand, as identified in our Economic Development Plan; now therefore

BE IT RESOLVED, the Copper Valley Economic Development Council supports Copper Valley Electric Association's efforts and respectfully requests the Department of Community and Regional Affairs; Division of Energy to support and approve the loan funding for the design and construction of the Sutton to Glennallen intertie.

Approved and signed this 27th day of October, 1993, in Glennallen, Alaska.

Secretary (attest)

President

(seal)

Copper River School District



October 26, 1993

Superintendent's Office Box 108 Glennallen, Alaska 99588 (907) 822-3234

MECEIVED

OCT 2 8 1993

DIVISION OF ELERGY/DCRA

Don Harris, Director **DCRA** Division of Energy P. O. Box 190869 Anchorage, AK 99519-0869

Dear Mr. Harris:

I am writing to you as a school administrator about the Sutton to Glennallen transmission line project. As I review the economic impact upon the educational programs at the Copper River School District, I am overwhelmed by the amount of savings that would be realized by the approval of this electric transmission project.

The present source of electric power for the Copper River School District via the Copper Valley Electric Cooperative is from a blended cost of power originating from diesel powered and hydro-generated plants. That cost to the district as a consumer was .10/kwh in 1992. The CRSD budget for electricity is over \$172,000.00 annually. The cost of power generated by hydro-electricity at .064/kwh can save the district \$62,000.00 annually.

The Copper River School District could make better use of its resources for classroom instruction and materials. The savings of \$62,000.00 annually would enable the district pursue a variety of projects to improve instruction. CRSD could add a teacher to its staff to help in the instruction process, or the savings of \$62,000.00 would enable the district to add much needed science equipment, or we could purchase 50 computers to assist our students in their instruction.

In a ten year period, these savings would amount to a million dollars. is a sizable chunk of revenue that would not have to be spent on mere comfort, but for real education of our youth.

A least-cost central service station is needed to curb the cost of electricity and to place our revenues into actual educational opportunities. A reduction in expenditures for this entity alone is justification for approval of the Sutton to Glennallen transmission line. This is a most feasible plan to curb the high cost of electricity.

When it comes to heating, electricity is a wise and safe choice, but it must also be affordable. Today it is not, but with the Sutton to Glennallen transmission line, it can be.

Reid Straabe, Supt.

ong: Richard E. Ec: Dhe Dernis



P.O. Box 369

Glennallen, Alaska 99588

Phone (907) 822-3291

September 14, 1993

RECEIVED

SEP 1 6 1993

ALASKA ENERGY AUTHORITY

Mr. Richard Emerman Alaska Energy Authority PO Box 190869 Anchorage, AK 99519-0869

Dear Mr. Emerman:

I am writing to express my support of the Sutton to Glennallen intertie, which received a \$35 million dollar zero interest free loan through the legislature in 1993. We would like to express our support and our need for electricity to be used through this intertie.

We have a radio station, a medical facility, a Bible college and other facilities here that certainly need lower electrical costs. We believe that as a growing contributor to the state of Alaska, we are hindered by having higher electricity rates than most other places in the state of Alaska and we believe we should have equal opportunity with both Anchorage and Fairbanks in receiving reasonable electrical rates.

Currently, we are paying .21 cents a kilowatt hour for electricity in this area, as compared to those in other areas that are being subsidized by the state of Alaska. I believe that this transmission line would provide for the growth of the communities along the line as well as in the Copper River Basin and Valdez.

We would like to see our quality of life enhanced here and we believe that by having stable and reasonable electric power available that the area would be more quickly developed and we would become even more of a contributor to the welfare of our state.

We certainly would like to have your support in seeing this project through and this transmission line completed.

Sincerely,

Vernon R. Stevenson

Area Director

cc to John Downs

Ahtna, Inc.

GLENNALLEN OFFICE P.O. BOX 649 GLENNALLEN, AK 99588 PHONE: (907) 822-3476 FAX: (907) 822-3495 TOLL FREE 1-800-478-3443

September 13, 1993

ANCHORAGE OFFICE 406 W. FIREWEED LANE, NO. 101 ANCHORAGE AK 99503 PHONE: (907) 274-7662 FAX: (907) 274-6614

RECEIVED

SEP 16 1993

ALASKA ENERGY AUTHORITY

Richard Emerman Alaska Energy Authority P. O. Box 190869 Anchorage, AK 99519-0869

Dear Mr. Emerman:

Ahtna, Inc. and its subsidiaries, along with our shareholders and employees, are located in the Glennallen area which is served by the Copper Valley Electric Association (CVEA). It is no secret that the present CVEA membership pays one of the higher kilowatt rates for electricity in the State of Alaska. As a consequence, CVEA has continually sought ways to reduce its rates to consumers.

The most recent effort has been an attempt to get the State of Alaska, through the legislature, to fund a Sutton to Glennallen power intertie. As you know, the legislature did approve \$35 million zero interest loan earmarked for this project. Ahtna, Inc. totally supports this project, as we see positive, long-term benefits from such a project. We believe that the rates could be reduced over an extended time with the tie of CVEA to the railbelt energy grid. Of course, with reduced electrical rates the overall economy and the quality of life could be greatly improved in the Copper River Basin.

We ask that you give a favorable consideration to this proposed project.

Sincerely,
Tay S. Ewan

Roy S. Ewan

President/CEO

RSE:dag

Copper River Emergency Medical Service Box 529 Glennallen. Alaska 99588

September 10. 1993

Mr. Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage. Alaska 99519-0869

RECEIVED

SEP 1 5 1993

Dear Mr. Emerman:

ALASKA ENERGY AUTHORITY

Our organization has voted unanimously to support the Sutton-Glennallen Intertie project. We believe that the project will provide for lower electrical rates in the long run as well as reduce dependance upon fossil fuels. Lower electrical rates will allow business's to operate which can't now due to electrical costs. Our organization is not a major consumer of electricity; however, the impact or high cost electricity to our budget is significant.

We urge your support of the Sutton-Glennallen Intertie project.

Sincerely.

Kenneth Roberson. Vice Chairman

Copper River EMS

Box 529

Glennallen. Alaska 99588

COPPER VALLEY ECONOMIC DEVELOPMENT COUNCIL, INC. P.O. Box 9

Glennallen, Alaska 99588

RECEIVED

SEP 13 1993

September 7, 1993

ALASKA ENERGY AUTHORITY

Mr. Richard Emerman Alaska Energy Authority P. O. Box 190869 Anchorage, Alaska 99519-0869

Dear Mr. Emerman:

Copper Valley Economic Development Council, Inc., has long been aware that the major barrier to economic development and sustainability in the Copper Valley is the high cost of energy. We have been active supporters of the construction of the Sutton to Glennallen intertie and previous intertie proposals. We would like the feasibility study to reflect this support. Without stable power rates, economic development, which translates to jobs and well being are not a real possibility in our region.

Existing businesses are affected as well as new ones. The distinct possibility of power increases over the next several years will be a major factor for a new enterprise and for the existing ones to open and remain open.

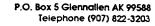
School budgets are on the decrease and operational expenses are on the increase. The savings to the school district alone would be enough to offset some of the declining revenues they face over the next several years.

The arguments for construction of the Sutton to Glennallen Intertie are endless and we are sure stated often. It is unfortunate that a few people cannot see that an entire region of the State of Alaska is affected by their determination to stop this construction. We urge you to look at the good that can be derived from this construction and at the opinions of the majority, rather than the minority.

Sincerely,

Donna Tollman Executive Director







Formerly Faith Hospital, a division of SEND Intl. of Alaska

September 7, 1993

RECEIVED

SEP 13 1993

ALASKA ENERGY AUTHORITY

Mr. Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, Alaska 99519-0869

Dear Mr. Emerman:

I am writing to you in regards to the Sutton to Glennallen Intertie. I would like to see the intertie go through to provide reliable power at a reduced cost which would stabilize or reduce current rates paid by the Copper Valley Electric Association consumers.

Stable or lower electrical rates would assist in promoting economic development within the communities served by CVEA.

CVEA currently owns, maintains, and operates two diesel plants which will increase in cost to maintain as they get older.

As the only health care facility in the area, we are concerned with keeping overhead costs as low as possible.

Thank you for your consideration in this matter.

Yours in Christ,

Sum Cako

Dawn C. Oaks Administrator

 $D\infty/p11$

TOLSONA WILDERNESS CAMPGROUND P.O. Box 23 Mile 173 Glenn Hwy. Glennallen AK 99588-0023

August 31, 1993

Mr. Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage AK 99519-0869

Dear Mr. Emerman,

As owner and operator of a campground in Glennallen I am fully aware and concerned about the high electric prices in our area. Some campers have several 1000w electric heaters and are still appalled that I have to charge \$3.00 extra for electric hookups. Even at this rate I sometimes only break even for 22¢/KW, 2000w/hr. for 8 hrs. is \$3.52.

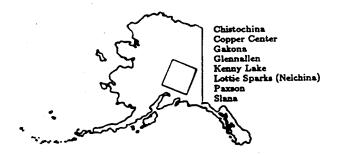
Last month the campground electric bill was over \$750.00. Anything that can be done to stabilize or reduce these rates would be greatly appreciated.

I also want to thank the engineers for moving the proposed route of the line slightly north so that it won't cross over my campground.

Sincerely,

Graham Ward.

Copper River School District



Superintendent's Office Box 108 Glennallen, Alaska 99588 (907) 822-3234

August 31, 1993

Mr. Richard Emerman Alaska Energy Authority P. O. Bo 190869 Anchorage, Alaska 99519-0869

Dear Mr. Emerman:

The Copper River School District Board of Education wishes to reiterate its support of the Sutton to Glennallen Intertie.

Copper Valley Electric Association (CVEA) currently owns, maintains, and operates two diesels pants; one in Valdez and one in Glennallen. As these units get older and are used more it will be more costly to maintain them in good operational condition. The transmission line would allow CVEA to place these diesel plants into either cold or warm standby so they would be available in case of an emergency.

The intertie would tie CVEA members to the railbelt energy grid and provide reliable power at a substantially reduced cost that would stabilize or reduce current rates paid by CVEA consumers. Lower or stable rates could help to enhance the quality of life for those living in the CVEA service area and provide an avenue to promote economic development within the community.

A copy of the original resolution in support of the intertie passed on February 8, 1993, is enclosed.

Sincerely,

Reid Straabe Superintendent

Enclosure

RECEIVED

AUG 31 1993

ALASKA ENERGY AUTHORITY

Greater Copper Valley Chamber of Commerce P.O. Box 469 Glennallen.Alaska 99588 Michael J. Swisher H.C. 60 Box 339 Copper Center, Ak. 99573

August 29,1993

Mr. Richard Emerson Alaska Energy Authority P.O. Box 190869 Anchorage, Alaska 99519-0869

Dear Mr. Emerson:

Regarding the Sutton to Glennallen Intertie: I am very much in favor of the Intertie as it would not only pick up new subscribers but would lower the cost/KWH for all involved.

Minor extensions could be made to the Tiekel area where other subscribers could be picked up.

CC: Greater Copper Valley Chamber of Commerce.

CC: Tiekel River Lodge.

Sincerely

Michael J. Swisher



LOG HOMES OF ALASKA

P.O. Box 366 Mile 2 TOK Cutoff Gakona, Alaska 99586 Telephone (907) 822-5105 RECEIVED

AUG 31 1993

ALASKA ENERGY AUTHORITY

august 28, 1993

Dear Mr. Emerman, I have been a resident and a businessman in the Copper Revier Volley for over 18 years. One of our major concerns is the price we the possibility of paying signing not-to-distant futiers. I strongly support the Section-Gennals with hopes of Interter Bill our electrical rates somewhat 'hentit you can give ess e to become a reality appreciated.

Old Post Office Gallery

BOX:379 COPPER CENTER, ALASKA 99573 (907) 822-3694 RECEIVED

AUG ? 7 1993

ALASKA ENERGY AUTHORITY

8.26-43

Dear Mr. Emermon,

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Kinchself Journe Sur Jendie



August 25, 1993

Alaska Energy Authority P. O. Box 190869 Anchorage, AK 99519-0869 RECEIVED

AUG 30 1993

ALASKA ENERGY AUTHORITY

Attn.: Mr. Richard Emerman, Senior Economist

e. Suttonyto Gjennallen Intertie - Comment

Dear Mr. Farerman:

It has brought to my attention that you are receiving many comments from some of the citizenry along the proposed route of the Sutton to Glennallen Intertie that contain predominantly negative responses. We are hearing that those concerns center around the intrusion of the power line onto their properties and some have expressed concern over the emissions question.

As a benefactor of the reduced rates we are hopeful of receiving I, for one, am very concerned for the health of my family, business and neighbors in our surrounding communities in the Copper Valley. Whereas, I agree with the folks from the Sutton area that the line needs to be shielded from sight and all reasonable steps must be taken to insure the complete safety of the populous, I must take exception to the attitude of some that are professing to destroy this project under any and all conditions.

Last month, June 1993, my small business paid \$1870. In July the bill was in excess of \$2500 and I just paid \$2700 for the latest billing. My research shows that had we been in Anchorage, Fairbanks or many other locations in Alaska these bills would have been less than half of what we are paying. Like many in Alaska we are working under very difficult circumstances and want to do all we can to continue to be in business. If, however, the rising costs price us out of out markets we have no choice but to either sell to someone else who will only eventually fail or close the doors.

Our electric rates are critical to our health and welfare and if the Sutton-Glennallen Intertie is the viable solution to the problem we must work with all diligence in that direction. As you know the option to this plan is to rebuild the existing plant at millions of dollars, increasing rates, pollution, and operating costs while, at the same time, disallowing new business development, and creating more government control of a dinosaur system.

I urge you to listen to the concerns of the citizenry and build the Intertie with respect to their objections but in any event . . . Build the Intertie!

L. Alan LeMaster, President

Gakona Junction Village, Inc.

Mr. Clayton Hurless, General Manager - Copper Valley Electric Association Mr. Robert "Bob" Sunder, President of the Board of Directors - CVEA

file

Sincerel

CC.



August 25, 1993

RECEIVED

OCT 2 6 1993

DIVISION OF ENERGY/DCRA

State of Alaska

Department of Community and Regional Affairs Division of Energy

P. O. Box 190869

Anchorage, AK 99519-0869

Attn.: Mr. Don Harris, Director

Re: Sutton to Glennallen Intertie - Comment

Dear Mr. Harris:

With the winter months just ahead it brings with it the final phases of our work with the above noted Sutton - Glennallen Intertie. We coop members are expecting the final round of public comment meetings when R. W. Beck and Associates completes their feasibility study within the next few weeks.

We are looking forward to their findings and a final determination on which way to move so we can, once and for all, get on with it.

Some weeks ago I sent correspondence to Mr. Richard Emerman urging him to give our intertie project priority consideration as we are desperately struggling to stay in business while we await lower power costs.

As you are aware, we in the Copper Valley are paying about the highest unsubsidised rates for electricity in Alaska, the United States and possible the World! We are not just a little bit higher, but more than double that being charged our neighbors in Fairbanks, and Anchorage and over 4 to 5 times the rates charged in many communities in the lower 48.

Well, Mr. Harris, I must say this in no small burden to bear. To operate my small business we will spend up to \$2700 a month this year for electricity. It is a burden that can, in fact, easily put us over the edge and cause our company to fail if it continues to increase as is projected by our studies. Thus, my concerns. We *must* turn this around!

We are now learning about an alternative source of power through steam generation using coal boilers as proposed by Slana Energy and Hobbs Industries. I have had the opportunity to talk with some of the principals of this system but, much like out national health plan in Washington, there is a lot of rhetoric but nothing is showing itself on paper. Their claims are impressive and deserve full consideration before making any final judgment. Whereas they seem to have answers for every question we have not had any hard evidence that will verify their claims. I am sure they are in the process of preparing something for distribution but to date we only have lip service. Time is of essence and we can only continue to give these ancillary proposals limited time to prove themselves. After that we must move on if we are to cut power costs and save the businesses within the communities in the Valley and Valdez.

As I understand Copper Valley Electric Association position they, are recommending we construct an intertie to Sutton from Glennallen that will allow us to bring up to 40 mw of

Phone: (907) 822-3664 — P.O. Box 222 — Gakona, Alaska 99586 —

power to our valley. About 4 times that being used at presently and 4 times that proposed by the coal generation system; thus, allowing for many years of growth. This line will be funded by a state, no-interest loan, granted by the last legislature and subordinate costs will be raised through a \$25 million bond offering through the Alaska Industrial Development and Export Authority should those funds be needed.

The intertie will have a life of something over 50 years (more than double that proposed by the coal generation folks) and is upgradeable to more power capacity as needed in the future with relatively few dollars. It will provide a source of power for all the members of the Copper Valley Cooperative with no additional pollution, fewer costs and higher rates of efficiency. Additionally it will easily allow for expansion of our system to accommodate many communities in the area and large consumers of the nature of the Petro Star chemical plant recently brought on line in

The concerns and objections of the individuals and businesses along the proposed right of way have been heard and addressed by moving the right of way a considerable distance at a great cost to the Coop . . . but, this will keep the line off private land, eliminate visibility, and keep the power away from people and livestock. A move that is correct and had to be done. There are among that group, however some who will not be satisfied if we run the line through Cabo San Lucas. They are objecting to everything from the need to keep the line from view to damaging the wilderness from walking around on the ground. Much of their objection is beginning to fall on deaf ears in the Valley as they reach too far in their zealous effort to keep us from having the very thing they are enjoying . . . lower electric rates and reasonable costs

We are being told that the new retail power rates from an interconnect with the Sutton-Glennallen intertie, when averaged with the rates from the Four Dam Pool, will cost about 8.4 cents/kwh now and by 2015 will increase to 18.3 cents/kwh in real dollars. When adjusted for inflation (in 1993 dollars) the costs will actually decline from 7.2 cents/kwh now to 5.9 cents/kwh in 2015. I think we all can live with that if, indeed, it is true. After many years of dealing with other power companies and the promises they make to gain dollars for new systems I look at these rates with a certain amount of skepticism but even if they are 50% right it will be better than what we have now. The only viable alternative presented to date is to continue where we are and the rates will probably more than double those figures placing us at a level that I, for one, will find most difficult continue our operation.

We are desperate to receive a livable rate that will enhance the growth of our businesses. schools, public facilities and, most importantly, our families quality of life. The time to move the Copper Valley into the 21st century in now! The people to do the job are aboard in the Copper Vailey, Valdez, and Juneau.

We encourage you to expedite the project in quick time as the project unfolds and the opportunities present themselves. Our work is difficult and time is not our friend.

eMaster. President

Gakona Junction Village, Inc.

Mr. Clayton Hurless, General Manager - Copper Valley Electric Association Mr. Robert "Bob" Sunder, President of the Board of Directors - CVEA

file

ong: Dick Cc: Dke.

Copper Basin Mechanical RECEIVED

Box 612 Glennallen, Alaska

AUG 30 1993

Phone/Fax (907) 822-5531

ALASKA ENERGY AUTHORIT

Dear Mr. Emerman,

Dan writing you About the Sutton-glennallen intertie We here in the Glennallen-Valdey Area reced the intertie Boolly, our Rates are among the highest Cleatrice notes in the State. If we could get tied in to the excess Tower in the Anchorge Bowlarea it would stablige or lossibly even reduce our & lectric costs. I Believe one of the underlying reasons for the no groth economy -glennaller is the extreme cost of theatricity, We we coveredly laying about 21 or 22 Cents Pere K. a. lis is a Bill of 5000 / month for my family. in This Econory a Bill like That is hard to fay. We need the intertie!

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RECEIVED (lug 25, 1993 AUG ? 1993 ALASKA ENERGY AUTHORITY Sthe Richard Emerman Cill Energy licetharity P.O. Box 190869 anch ar 99519-0869 Wear Sift Emerman, I would clike to reafur the fach that Glennailer NEEDS to be Connected to the railder area, was the intertie from Sutton to Glennallen. this ared is growing & the Romande for electricity are increasing. I we Could lower our inter we many ceren attract some industry. Please see that there is in intertie between Sutton & Glannallen Chanks -Tilemillen 94582 Mr Richard Emersian Alaska Emergy Authority POBox 190869 Anchange AK 99519 Dug 25, 93

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AUG 2 7 1993

ALASKA ENERGY AUTHORITY

Dear Sir Javar of the Sutton to Glownollen entertie because of the savings of the millions of gallons of fossil fueles used each of the savings in Cast of electricity for this area would also help local luminesses and prescribly living nore luminesses to the valley.

840 Porkstok Wasilla ak 99654

RECEIVED

Ms. Evelyn Bunch P.O. Box 31 Glennallen, Alaska 99588 August 17, 1993

AUG 10 1993

ALASKA ENERGY AUTHORITY

Alaska Energy Authority Attn: Dick Emerman P.O. Box 190869 Anchorage, Alaska 99519-0869

Dear Mr. Emerman:

I am writing to express my support for the Sutton-Glennallen intertie project. As a 30 year resident and long time business person in the Glennallen area, I have seen CVEA struggle to provide dependable electricity to the Copper Valley area. The Cooperative's efforts have been commendable under the circumstances and problems encountered here but lowering our very high rates has been impossible for a number of reasons. Finally, the plan for an intertie from Sutton to Glennallen appears to be a viable solution to our high energy costs, without sacrificing dependability of service.

What I and others in the area invision is an intertie that provides fair and equitable service, comparable to that made available in other highway communities. The Sutton-Glennallen intertie will enable the CVEA system to function on a modern, efficient level which will result in lower electric rates. We don't ask for special consideration, but we do need your help to make our vision a reality.

As electric rates come down, I believe as do many others, that the cost of living in the Copper Valley and the cost of doing business here will be more in line with other southcentral communities. Our quality of living and our economic outlook will improve immeasureably. Everyone would benefit. Not just local residents, but those in surrounding areas. I also feel that every care and consideration have been taken into account to see that our neighbors to the southwest are not adversely affected by the Sutton-Glennallen intertie.

The Copper Valley area, with its relatively small population and remote location, needs your help to accomplish our mutual goals of lowering electric rates and providing dependable electricity.

Sincerely.

Ms. Evelyn Bunch



BOX 337, VALDEZ, ALASKA 99686

907-835-2231

FAX 907-835-2387

June 22, 1993

Alaska Energy Authority P. O. Box 190860 Anchorage, AK 99519-0860

Copper Valley Telephone Cooperative, Inc., is a non-profit, member owned cooperative providing communications services throughout a large portion of South-Central Alaska. The nature of this area requires us to provision many small, remote buildings in which we house electronic equipment requiring AC power to operate. We have a constant first question we ask when engineering and planning upgrades or new facilities—what is the availability of AC power?

This dependence translates into charges for electrical services from Copper Valley Electric Cooperative in excess of \$65,000 per year--and growing!! Since we operate on a non-profit basis, any net effect upon those costs ultimately appears on our customers' bills. We have more than enough expensive obstacles to overcome in order to accomplish our goals, and strongly support any project which can help us keep the lid on our operating expenses as we intend to remain in business here for many years to come.

We trust that strong consideration will be given to the potential to minimize the "trickle down" or pass through effects of increased energy costs. The Sutton-Glennallen Intertie Project has that potential and more. It has the potential to stabilize rates—a direct benefit for our customers. It has the potential to encourage economic development—a direct benefit for our customers. And it addresses future need for many years—again, a direct benefit for our customers. We can only see positive returns through this project, returns which directly affect the pocketbooks of our 4000 customers through our operations alone.

As a utility, too often we find the expressed demands of a few override the unexpressed desire of the majority, especially where public works types of projects are concerned. I believe the benefits inherent in this project far outweigh the downside.

Sincerely yours,

Scott L. Smith General Manager

June 1993

DOCUMENTATION OF PUBLIC COMMENTS ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

RECEIVED

JUN 30 1993

ALASKA ENERGY AUTHORITY

You are invited to comment on the proposed Copper Valley Intertie project which would consist of a 138-kV electric transmission line from Sutton to Glennallen. If you wish to submit written comment for consideration and inclusion in the feasibility study, please submit such comment as soon as practical to:

Mr. Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

Name of Person Commenting:	AL SANDERS		
Mailing Address:	P.O. Box 79		
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COMMENTS:	NESS SO This INTERTIO for		

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Name of Person Commenting:

Mailing Address:

BARBARA R. SANDERS P.O. BOX 79 COPPER CENTER, AK

COMMENTS: MUCH OF THE ARGUMENT AGAINST THE
INTERTIE FOCUSES ON THEY UISUAL IMPACT -THAT VIEWING THE INTERTIE WILL HARM TOURIST BASED BUSINESS' - THOSE CONCERNED WITH THIS ASPECT OF THE INTERTIE SHOULD GO TOWARDS VALSEZ & VIEW THE TRANSMISSION LINE THERE. IT IS HARDLY VISIBLE & WHERE IT IS VISIBLE IT IS HARDLY NOTICABLE. THE BREATH-TAKIN BEAUTY OF THOMPSON PASS IS CERTAINLY COMPARABLE THE BEAUTY AROUND CHICKALOON & SUTTON.
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June 1993

DOCUMENTATION OF PUBLIC COMMENTS ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

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JUN 2 8 1993

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Name of Person Commenting:	SULIE SING
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Mr. Richard Emerman Alaska Energy Authority P.O. Box 190869 Anchorage, AK 99519-0869

Name of Person Commenting:	Randy Molacy
Mailing Address:	108'1031 Valdez AK 99686
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The intertie	lavor of constructing as soon as possible. The schedule should
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Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line
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Thes. Prince Um Spring
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Dear Mr. Harris,

Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because:

It will be more cost effective for both of us in the long run

Sincerely,

Dear Mr. Harris, Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because: Dur Bills Dre To High See No. Prices	The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because: I don't want this interfie he there is absolutely no quarantee of rate dropping or at best, remaining the same. Out here we pay about the highest rates of any community - I centrally don't evant to pay more. Cut back on the fat!!!! Sincerely,
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Dear Mr. Harris,

Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because:

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- au	endageer botten if we did not have
-10 B	Pay so much har electricity to run
cu l	Sincerely, Anylis physics

Dear Mr. Harris,

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

It will be the START of something that Com munt Sincerely

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

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Dear Mr. Harris.

The people of the Copper Valley and the City of Valdez need your help so
a transmission line can be built to the CVEA into the Railbell. We, the
member/owners of CVEA, can't do it alone; we need your help and the
financial support of the State of Alaska. We need this line because:

it is a real hardship for us to pay the to three trees as much for electricity has most of the rest of the state we need help to now.

Sincerely, John

10/27/93

Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:

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Sincerely,

Dear Mr. Harris,

Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because:

1 We can displace the need for our diesel plants

3) Cost exective rate reductions in VDZ due to Rate Mitrotion
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sincerely, Start Jam

Dear Mr. Harris,

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

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Please help the residents and businesses served by Copper Valley Electric get the Sution to Glennallen transmission line built. We need it because:

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Subsequent rake reductions
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The state in rakes and progres
Will continue to be hindered
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Dear Mr. Harris,

Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Gennallen and Sutton. We will benefit from this line because:

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Dear Mr. Harris.

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

OUR ELECTRIC PATES ORE

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transmission Lines should be taken into

Consideration During Design

Sincerely, Mark Tee

VALDEZ MOTEL CORP

Dear Mr. Harris,

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

This looks to me to the diversion deal for all Enrently as how energy the state the highest electric east in the state kindest regards, sincerely. Jan Kerrey

The residents and businesses served by Copper Valley Riectric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because:	Please help the residents and businesses served by Cop Valley Electric get the Sutton to Glennallen transmission built. We need it because:
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Dear Mr. Harris,	Dear Mr. Harris,
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The people of the Copper Vailey and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:	Neighbor helping neighbor is how this nation and this state we built. It is also how we, the member/owners of CVEA, live, are asking for your help and support to get a transmission built between Glennallen and Sutton. We will benefit from line because:
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Sincerely, Ellen Froston Dear Mr. Harris, Neighbor helping neighbor is how t	his nation and this state were
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Dear Mr. Harris,	Dear Mr. Harris,
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Kroning when the feeting of the title cost	Sincerely, brad Barnhard
Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: It will help to bring down the cost of electricity to the copper Basin. Sincerely, Miller Market Sincerely, Miller Mark	Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because: our rates are very kigh. many generals their own forwar because a this. hower rates would sell smore forward encourage businesses thanks
Dear Mr. Harris, Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this e because:	Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because: The Mount of Mond Roling Holp The Man Sones. This can only Holp

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Sincerely Prothy James

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

The price of eggs in Chipin does affort all of we. When any part of Alaska prospers, we all benefit. Likewise, stagnation of any part of Alaska, is like a cancer cating away the good of our state - Copper Valley NEFDS the time with a rail bet to be were simply. I (a 77 ground prosperous. And personally, I (a 77 ground voteran. The med is under the

The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because:

Our 1stes ARE outstagens and ARE NOT STABLE. This inhibites Economic JRU with IV the AREA. Our rutes ARE ON OF the highest in the state. This line would save our power weeks FOR mang many years to come. Dear Mr. Harris,

Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because:

We despurately need to prosure all option tor lowering power cost in our area (The highest in the state)

Sincerely, Andu & Kola

The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because:

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Sincerety, Caso Andrew

Dear Mr. Harris,

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

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Dear Mr. Harris,

Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because:

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Sincerely.

The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because:

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Other areas, with lower rates, are being tied to grids.

After the state revoted the great for development of the Saleman Coulch by dee plant, electric rates in this acce were forced so high that there is no chance of industrial development. A belated remedy would be to be be supported in the state of Alaska. Sincereiv, Claude Patterns.

Plant of the state of Alaska. Sincereiv, Claude Patterns.

Michael D. Autledge 108 333 Valdez Ak. 99686

The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because: 10 Joveer our activity rates Sincerely, Tamela a. Ulwisted	Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: Suff State of Alaska. We need this line because: Language The Control of Company of the State of Alaska. We need this line because: Suff State of Alaska. We need this line because of Alaska. We n
The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because:	Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because: For hower electric rates Economic Growth
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FROM AN CHORAGE - FAIRBANK - DELTA -	
CHENCH ALLEN - PALMER - ANCHORAGE. IN ADDITION ANOTHER MAJOR GEOGRAPHIC SINCERLY, C. 7. Z MANGE AREA (THE CORRIDOR FROM GLENN ALLEN TO VALUE) WILL BE TIED TO THIS VERSATIL SYSTEM.	Sincerety, Mark
Dear Mr. Harris,	Dear Mr. Harris,
The people of the Copper Vailey and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: 214 to 264/Kwhr electrical to upperment and it should help the continuity of service (ferred transportions) with medical alectrical direction. Sincerely, Elie Hames	The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: TWILL HELP REPURE COSTS Sincerely, John H. Skillign.
The residents and businesses served by Copper Valle Electric HC need your help and support to make the Sutton to Gennalian- transmission line a reality. We need this line because OPENIN	Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:
IN ORDER TO HAVE FUTURE GROWTH OF ANY KIND WE NEED LESS EXPENSIVE AND STRELE fOWER COSTS - WE, AND OUR CONTRIBUTIONS TO THE STATE ARE JUST AS IMPORTANT MOD, AND DOSSIBLY MURE IN THE FUTURE, AS ARE	fresh fuel is presenting rew business as well as retaining stationing stationing season of memory, our morchly full is now year,
THE SO CALLED RAILBELT COMMUNITIES Sincerely, External	there times what d with 25 yes. ago. sincered A. a. alley

The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because: Carpyrood ortion of checking an average of \$3.00 for promise for checking an average of \$3.00 for promise for checking an average of \$5.00 and the many captonets. I need to increase any change to \$40.00 to come conto but	Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: A the Kigh Nates we are Curretty paying one will prefer to the future.
Sincerely, A. Main. Mile 173 Chan Huy.	Sincerely Exp Figure
Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because: Rates are for high	Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because: The cost of electricity here is very high. It is not unusual for my winter bills to be \$300.00 and believe me, we try to conserve.
Sincerety Jates M. Alford	Sincerety, Michael Margues
Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: WE PAY TO MUCH, 194 PER Ku Hour	Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because: We do not need this transmission line Live The Solman Gulch project, they told wis the rates would as down with the dam and they just keep soin up. We do not need it is Sincerely, Law dan Phone C
Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:	The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because: We need to look at what what will best serve the statue of what will be and allow us court out to what without constant

Dear Mr. Harris,	Dear Mr. Harris,
The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:	Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Slammylen and Sytton. We will benefit from this line because.
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What's one more power line if it will lower power bills?	To resul an payation dist
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Dear Mr. Harris

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

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Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:

We need to love the cost of citibitis to individed and business.

Dear MR. Harris.

The electric Company Said to write you about my problem. I consofford anymore electricity than I already use, cont really afford that I want to start a summill but after tolking to them. I cont uffort the electric bill they to ld me about this glennale. to surtor intertier that might bely no out here.

Please approve it - 80 I can be sally sufficient of my family obt were form

Juine Dowdy

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Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because: We need to have the lost of the contract	Dear Mr. Harris, The people of the Copper Valley	·).	
Valley Electric get the Sutton to Glennallen transmission line built. We need it because:	The people of the Copper Valley	and the Cine of Helder mand your ba	
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ease help the residents and businesses served by Copper tiley Electric get the Sutton to Glennallen transmission line ilt. We need it because:	Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the
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ar Mr. Harris,	The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen
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	The high rate of KWH Costs Charged to Consumers are extreme, especially for
STEM. THE "RAILBEY" IS ALASKE'S "GRIO".	people on low or fixed incomes,
CASE BE PART OF THE FUTURE SECURITY	Guerrandure for usage Conservation and
ALASKA BY SUPPORTING THIS MEASURE.	follow procedures for usage Conservation and still find my monthly bill is far beyond
	what is reasonable-fair compared to trher areas in Alaska.
Sincerety, Bugins	Sincerely, N. Richwine
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The residents and businesses served by Copper Valley Electric	Dear Mr. Harris,
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The people of the Copper Valley and the City of Valdez need your help so	Valley Electric get the Sutton to Glennallen transmission line
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The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

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Mr. Harris, eople of the Copper Valley and the City of Valdez need your help so umission line can be built to the CVEA into the Railbelt. We, the er/owners of CVEA, can't do it alone, we need your help and the tal support of the State of Alaska. We need this line because: 185	The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because: It Can peplace tessel and film of the filment is and the Enterior and the filment is and the filment is a supposed to the filment of add ness of a title facilities in Unfilmsincerely City in the facilities in Unfilmsincerely City in the filmsincerely City in the filmsincerely City in the facilities in Unifilmsincerely City in the facilities in the filmsincerely City in the facilities in t
residents and businesses served by Copper Valley Electric your help and support to make the Sutton to Glennallen imission line a reality. We need this line because: Le disclaration plants won't cost effective forever. It pears there are no other adequate oices. Coal busine nuclear etc	Dear Mr. Harris, Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because: THE POSSIBILITY OF LOWER ROTES !!
Sincerety, Tim Saskowsky Mr. Harris, reople of the Copper Valley and the City of Valdez need your help so is mission line can be built to the CVEA into the Railbell. We, the ner/owners of CVEA, can't do it alone, we need your help and the cial support of the State of Alaska. We need this line because:	Sincerely, GLENIGLLEN VILUNTEER FIRE JEPT. Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbell. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: As a business owner in the line because: As a business owner in the financial support of the State of Alaska. We need this line because: As a business owner in the transmitted in the property of the Market State of Alaska. Sinceraffes Micket Spragan. Sinceraffes Micket Spragan.
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Please fund the Sutton to Glennallen intertie Kenny lake Community League has to fund out Community Hall, Community Well ect. Our highest expense is a lactricity-higher lean than heat. You people use the Well + the bills are to high it is a great barned on us to Koop this service giving

Kenny Laxe Community League

Please approva Sutton-Glennallen Intertie -

here. Our electric bills make it very difficult to survive at-50° in the winter

> Sincerly Michelle Tunnell

We need the Sutton to Glennallen Intertie:

I AM AN Oldowoman on Soc

Security, I don't qualify for

assistance by 841 a month
My electric is so thigh, I keep

1, 9hts off + the heat turned

down - Its a ways cold + dark

I can't afford any more electric

Nova Winingham

Mr. Harres -

Please help us get better or a least no heigher electric rates—
we pay the highest rates in alway.
Doesn't seen fair to me".
The sules - Glundle inlettic
would help- this is a very depressed (wea- a little relief in this are.
Thank you Daryl Blunk.

Please help lower our electric ratesor at least Keep them stable - I want to start a business here but electric 10 so Righ In afraid to try-

Please helpopy grutting the built.

I have just completed a laundry MAT for the residents of Kennylake — Looks like it ll gross then 13°0 a load to wash & PITE to dry compared to Cunchovage that is horrible — and I may have to raise it — Storge R. Winingham

Dear Sir
Jeant Rave electioning for

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to much - Please help with

the intertie to glennallen - Moyle

my Kids usual have better grade

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11/3/93 Dear Siv:

The Copper Basin - everything electric, hair dryers - curling erons, hot water - everything. My light bell is outro seon of compared to the shop I had in anchorage - Please hely by furling Seons of Sensalin Sultan hanson son in Sherin

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Valley Electric get the Sutton to Glennallen transmission line built. We need it because: No. 2/1 Harris No.	The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: Life and the financial support of the t	At provides a long-term solution to CVEA'S high cost of power production. CVEA'S Agentrators of equipment is old and meaning the end of its usuful survice like the intatue will provide low cost gas first electricity to the Copper River Basic of stimulate
Valley Electric get the Sutton to Glennallen transmission built. We need it because: We need this line because: We need this line because: ONLY A SOUTH CENTRAL, VALDEZ FAILSELT GETO WILL REDUCE THE ONLY RESERVED OPEN THE POSSIBILITY OF CO. GENERATION Wanted your help and support to make the Sutton to Glennallen transmission built. We need it because: ONLY A SOUTH CENTRAL, VALDEZ PAILSELT GETO WILL REDUCE THE OPERATING COSTS AND OPEN THE POSSIBILITY OF CO. GENERATION WITH HUESKA, DR SELL POWER Sincerely, A. NO Forte	Valley Electric get the Sutton to Glennallen transmission line built. We need it because: It I Havis My family aumannessent Copper Valley and Lever afterney concerned with the cost of electricity in the ares. Our propert is near Cluthing. Hydrogramme and should receive propert the purpose of Sincerely Justice Boyne Please support the purposed for Hydrograms.	this line But all of wo wo which Valley neld Cheape Rates.
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The residents and businesses served by Copper Valley Electric	Dear Mr. Harris,
need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because: It will significant lower for fortation long term growth for fortation long term growth for fortation long term growth for Sincerely, Sincerely, Sincerely,	Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because: Our electric rates can be lowered in the transmission line at the lowered line at the
Dear Mr. Harris. The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbell. We, the memberlowners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: If would lower our KWH. rates We could the Sofomen Gulch Hydro with the Rail belt fower & Use our Dievel Generators for Stand-by of Needed. Sincereix facts N. F. and	The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because: It is exertial for the government of the forward of the area to have a staffle, offerlable some of power. Alstinally, it will make this are attractive to reveation activates by excursing people to line and play in the Copper Bound. Sincerely, M. Cuvilles
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Dear Mr. Harris,	Dear Mr. Harris,
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Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: Les presently pay The Highest Whowall have a fine making with fuch force. Along with fuch force the making with fuch force the support even categories of the support even categories of the support of	Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because: CVEA'S cliese! generating. Campinent is getting old. The Sutton To Glennollen Transmission line weld lower cur present 1590 d km. price. Lower costs could promote industry Sincerely, Tilor Al Nellis.
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Dear Mr. Harris,

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Dear Mr. Harris,
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Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:	Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:
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Dear Mr. Harris,	Dear Mr. Harris,
The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:	The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: Ill speed were dono Disk Wante be able one morey or electricity flat on be beginning.
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Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:	Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:
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Dear Mr. Harris,	The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen
The people of the Copper Valley and the City of Valdez need your help so	transmission line a reality. We need this line because:
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Dear Mr. Harris,	Dear Mr. Harris,
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Dear Mr. Harris,	Dear Mr. Harris,
The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:	Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because:
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Please help the residents and businesses served by Copper	Dear Mr. Harris,
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by building a cool/wood firedgenerating plant	member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:
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Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:	The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because:
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	MARUIN M. COX
Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: Many help to love and leading builts sto, also at the leading builts sto, also at the electric builts sto, also at the electric builts. Sincerely, Lay Builts Sincerely, Lay B	The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because:
Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because: High electric nates have Essentinged growth and Languaged growth and their	Dear Mr. Harris, Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because: Then are electric rates will only be 2.5 X higher than they are in durling.

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Dear Mr. Harris.

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

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Sincerely,

Dear Mr. Harris,

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

I had previously sent in a questionaire supporting the intertie, which I do!

Sincerely, Michael Juntes

Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:

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Dear Mr. Harris,

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

It would provide a more reliable and less costly source of electricity for our community. I would like to see our diesel generating plants shot down for good.

Sincerely, Kabut al Prints

Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:

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Dear Mr. Harris,

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

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Dear Mr. Harris,

The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because:

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Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: It said stabling says if new Alisel	Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:
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Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to tie CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: Sincerely, Cappa Ruy Cash	Dear Mr. Harris, The people of the Copper Valley and the City of Valdez need your help so a transmission line can be built to the CVEA into the Railbelt. We, the member/owners of CVEA, can't do it alone; we need your help and the financial support of the State of Alaska. We need this line because: As integrated intertie is aboric to development and progress. The more rural compensations free get the least banefits from "von-renewable" resources. Sincerely, Len Turken.
Dear Mr. Harris, Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because: We will not henefit from this line. This is exieffort to do away with diesely plants and peators which will leave us in the dark a cold for great lengths of time in event of an earthquake or avalanche in Thumpson lass. Manipulating numbers won't make sates go down. They vill go up. No Transmission line!	The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because: The sul do need this line because: Use the Sincerely, J. Lifton

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Please support the Setten to
Glennallon transmission. It is
greatly needed you long-term
economic development for Valdez.
We can't afford the ever increasing
electrical rates in this town.
WENEED YOUR Sincerely (HI) UCht
WE NEED YOUR SINCERELY, CHUUCHTEL ASSISTANCE! THANKS
Please help the residents and businesses served by Copper Valley Electric get the Sutton to Glennallen transmission line built. We need it because:
Granomic Development 15
perny stiffed by high
energy costs -
Stabilite rates -
Leave \$5 Inta
Community-not on clothe
Sincerely Sincerely
Dear Mr. Harris,
Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because:
HOPEFULLY IT WILL REDUCE OUR COSTS IN THE
LONG RUN. I THINK WE NEED tO GET AWAY
FROM DIESEZ POWER AS IT IS COSTLY AND
A GOVRIE OF POLLUTION. LET'S DO. +!
Sincerely, Lance Groundwat

The residents and businesses served by Copper Valley Electric need your help and support to make the Sutton to Glennallen transmission line a reality. We need this line because:
I am in favor of the Intertie
I am in favor of the Intert.e
Only if GVEA Shuts down
The Diesel Gensets And Uses

Please help the residents and businesses served by Copper

Dear Mr. Harris,

Neighbor helping neighbor is how this nation and this state were built. It is also how we, the member/owners of CVEA, live. We are asking for your help and support to get a transmission line built between Glennallen and Sutton. We will benefit from this line because:

	We	want	the	same	consideration	as the
	rai	re pa	yers	of A	nchorage	***************************************
						
						- 1
					Singarahi Al	& Salling
				•	Sincerely,	16 Hakling

DICK

RECEIVED

DOCUMENTATION OF PUBLIC COMMENTS ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

MAR 2 6 1993 ALASKA ENERGY AUTHORITY

You are invited to comment on the proposed Copper Valley Intertie Project which would consist of a 138-kV electric transmission line from Sutton to Glennallen. The Alaska Energy Authority is conducting the first Phase of a planned two-phase feasibility study of the Intertie. Two sets of public meetings will be held in Phase 1 at which comments may be voiced. Phase 2 of the feasibility study will follow in the second half of 1993, if funding permits, and would include one additional set of public meetings.

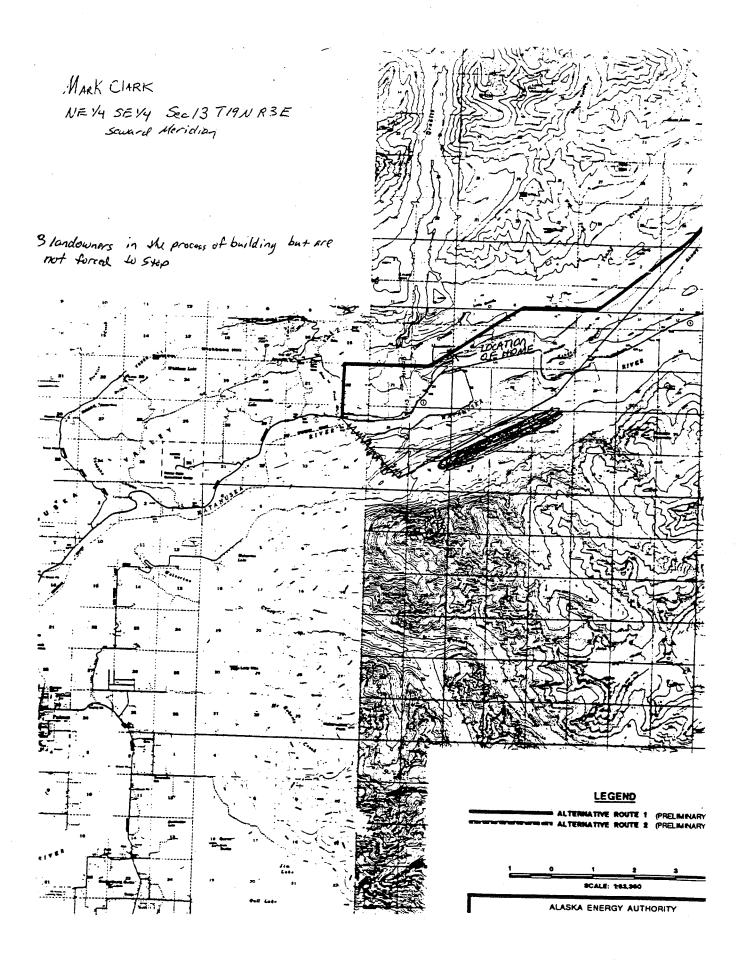
The comments of all parties who may be affected by the construction and operation of the Intertie are important to the mody. Verbal connects will be not ded at each of the meeting. It is difficult this comment sheet in provided as a convenience to any party wishing to comment. However, use of this comment sheet is not necessary in order for your comments to be considered. We request that any comments be as specific and detailed as possible. Do not feel limited by the space provided; attach additional sheets as necessary. Attached for your reference are seven maps showing two preliminary route alternatives identified at a starting point for the feasibility study.

histore submit your comments as soon as policical to the following:

Mr. Richard Emerman Alasha Energy Authority P.C. Box 180869 Authorage, AM 98519-0000

Onto needs will be included in the seports provided they are received at least two weeks prior to the publication of the reports. Tentative dates are June 15, 1993 for the Phase 1 report and October 1, 1993 for the draft Phase 2 report.

Name of Person Commenting:	Mark H. Clark		
Mailing Address:	P.O. BOX 242 Sutton AK 99674		
	·		
COMMENTS: SEF	ATTACHED LETTER		



APPENDIX C RESOLUTIONS

COPPER VALLEY ECONOMIC DEVELOPMENT COUNCIL

RESOLUTION 93-007

SUPPORT FOR THE THE SUTTON TO GLENNALLEN INTERTIE

WHEREAS, the Copper Valley Economic Development Council is a nonprofit corporation with the State of Alaska, and was formed as a partnership of the public and private sectors of the Copper Valley region of Alaska to address the economic problems and potential growth of the region; and

WHEREAS, the Copper Valley Economic Development Council Board of Directors recognize the major limiting factor to economic development within the Copper Valley region is the high cost of electrical power; and

WHEREAS, the residents and businesses in the Copper Valley region receive central station service from Copper Valley Electric Association, Inc., and pay some of the highest unsubsidized rates in the State of Alaska; and

WHEREAS, Copper Valley Electric Association has continually looked for ways to reduce the cost of power in this region and has determined to date that the only permanent fix to the rate situation would be the Sutton to Glennallen intertie, connecting Copper Valley residents to the Railbelt grid; and

WHEREAS, stable or reduced electrical rates would support the economic development within our region, it would entice new businesses as well as encourage current businesses to expand, as identified in our Economic Development Plan; now therefore

BE IT RESOLVED, the Copper Valley Economic Development Council supports Copper Valley Electric Association's efforts and respectfully requests the Department of Community and Regional Affairs; Division of Energy to support and approve the loan funding for the design and construction of the Sutton to Glennallen intertie.

Approved and signed this 27th day of October, 1993, in Glennallen, Alaska.

Secretary (attest)

President

larout Thelen

(seal)

CHICKALOON VILLAGE TRADITIONAL COUNCIL P.O. BOX 1105 CHICKALOON, AK 99645 (907) 745-0707 (FAX) 745-0606

RESOLUTION 93-07-03

IN OPPOSITION TO THE PROPOSED COPPER VALLEY INTERTIE

WHEREAS, Chickaloon Village is a distinct, independent traditional community, and is exercising powers of self-government by reason of its original traditional tribal sovereignty passed down from its ancestors since time immemorial; and

WHEREAS, the Chickaloon Village Traditional Council is the governing body of Chickaloon Village as recognized by Chickaloon Village and the United States of America; and

WHEREAS, the Chickaloon Village Traditional Council is responsible for protecting the health and well being of Chickaloon's present and future members; and

WHEREAS, the Chickaloon Village Traditional Council is also responsible for the protection of the lands, waters, plants and animals within Chickaloon's traditional land and subsistence use areas; and

WHEREAS, the Chickaloon Village Traditional Council is deeply concerned about the potential threats to humans, plants and animals of the proposed "Copper Valley Intertie" Project presently being studied and developed by the Alaska Energy Authority; and

WHEREAS, the Chickaloon Village Traditional Council is aware of reports linking high voltage lines such as the one proposed with serious health problems including cancer and birth defects in both humans and animals; and

WHEREAS, the current proposed route for the Intertie passes directly through the traditional lands and subsistence use area of Chickaloon Village, and its construction would cause disruption to the subsistence activities of village members as well as produce a serious detriment to the natural appearance and physical beauty of the area; and

WHEREAS, Chickaloon Village representatives have recently attended hearings on this issue conducted by the Alaska Energy Authority and have been joined in their opposition by the great majority of other Matanuska Valley residents in attendance, yet the State of Alaska Legislature continues to proceed with these plans despite the strong public outcry from this area.

THEREFORE BE IT RESOLVED that the Chickaloon Village Traditional Council hereby formally resolves to oppose the construction of the Sutton to Glennallen "Copper Valley Intertie", and will use every legal means at its disposant prevent the construction of this line; and

BE IT FURTHER RESOLVED, that the Chickaloon Village Traditional Council instructs Chickaloon's Tribal Legal Coordinator and the Chickaloon Village Environmental Protection Program to continue monitoring this situation, communicating our opposition to State and other involved officials, and to make further recommendations to the Council regarding its options and alternatives for action in this matter; and

AND BE IT FINALLY RESOLVED that Chickaloon Village Traditional Council authorizes a respesentative(s) from the Chickaloon Village Environmental Protection Program to meet with our relatives in the Copper Valley area Villages to discuss our concerns in this matter which is of great

importance to all concerned.

DULY CONSIDERED AND APPROVED JULY 3, 1993

Tribal Chairman

Tribal Elder

Tribal Elder

Tribal Areasurer

Alan Larson Jr. Tribal Secretary



THE GREATER SUTTON CHAMBER OF COMMERCE

P.O. Box 24 Sutton, Alaska 99674

A RESOLUTION OF THE GREATER SUTTON CHAMBER OF COMMERCE CONCERNING THE PROPOSED COPPER VALLEY INTERTIE FROM SUTTON TO GLENNALLEN

WHEREAS, the initial Copper Valley intertie proposal of 1989 was soundly opposed by residents along the Glenn Highway corridor; and

WHEREAS, the Matanuska-Susitna Borough Assembly resolved not to support the proposal of 1989 through Resolution 89-113; and

WHEREAS, the area involved by the proposed intertie still relies on tourism and the scenic beauty as a source of economy; and

WHEREAS, the negative impact on wildlife habitat and historic trails cannot be entirely remediated; and

WHEREAS, the possible health impacts from electromagnetic fields pose a very real fear for local residents that studies have shown justified.

NOW, THEREFORE, BE IT RESOLVED that the Sutton Chamber of Commerce recommends that alternative sources for the power needs of the Copper Valley Electric Association be explored and considered for resolving this issue.

ADOPTED by the Greater Sutton Chamber of Commerce this Fifth day of April, 1993.

Lynne Woods, President

ATTEST:

Barbara Leppanen, Board of Directors

RESOLUTION

WHERE AS, the Matananuska - Susitna Borough Assembly adopted resolution 89 - 113(sub) on September 5, 1989 concerning the Railbelt Intertie Feasibility Study, draft final report dated April 1989; and

WHERE AS, the assembly expressed therein concerns about the impact of the proposed northeast intertie on private property, habitable structures and scenic

resource of the Glenn Highway; and

WHERE AS, the community council of Chickaloon wishes to reiterate those concerns and more about the proposed intertie's impacts on;

- the very popular recreational areas traversed, including sections of the historic Chickaloon - Knik - Nelchina Trail and other well used trails.

- opening up the Matanuska Moose Range with concomitant impacts on wildlife and habitat

- an area of outstanding scenic beauty, where the local economy is dependent upon income from tourism;

- the life style and future of the area as stated in the Chickaloon

Comprehensive Land Plan

- the acceptance and compliance of a conditional use permit for electrical transmission lines as stated in regulations of the Chickaloon Special Land Use District:

- human biological systems by electromagnetic fields, which are still under

study.

Addionally, the council believes that M.E.A, C.V.E.A and the A.E.A have not researched effective alternatives such as the existing new coal fired generating facility Hobbs Industries owns 30 miles from Glennallen.

NOW, THEREFORE, BE IT RESOLVED that the Chickaloon Community Council recomends that the intertie not be built within our planning area.

ADOPTED by the Chickaloon Community Council, this 13th day of April 1993.

President John S. Killay

P.O. BOX 344 SUTTON, AK 99674

RESOLUTION 93-001

A RESOLUTION OF THE SUTTON COMMUNITY COUNCIL CONCERNING THE PROPOSED COPPER VALLEY INTERTIE FROM SUTTON TO GLENNALLEN

WHEREAS, residents of Sutton and other communities strongly oppose the construction of an intertie to provide additional electric power to Copper Valley Electric Association consumers without appropriate study of feasibility, environmental risks, and alternate sources to provide that same power; and

WHEREAS, the request by CVEA to the Alaska Energy Authority to perform a feasibility study does not provide enough funds to do a thorough investigation of alternative power sources but only the study of the "Northeast Intertie" routing along the Glenn Highway corridor; and

WHEREAS, this project depends on appropriation of funds from the state of Alaska and thus decisions on the use of public money should be based on scientific data utilizing technologies appropriate for the present needs and future impacts of people and environment; and

WHEREAS, CVEA appears to be trying to circumvent the statutory/regulatory intent for a systematic process of selecting the best ways to meet the state's energy needs through reconnaissance study to feasability study to finance plan to legislative action; and

WHEREAS, public comment received by this Community Council values the environmental habitat, personal health, and beauty of the land they have built their homes and businesses over the priority of constructing an intertie and resolve to oppose the project as long as it is being considered.

NOW, THEREFORE, BE IT RESOLVED that the Sutton Community Council opposes the Copper Valley Intertie.

Adopted by the Sutton Community Council on this _______day of _______, 1993.

Dracident

MATANUSKA-SUSITNA BOROUGH RESOLUTION SERIAL NO. 93-035

A RESOLUTION OF THE MATANUSKA-SUSITNA BOROUGH ASSEMBLY CONCERNING THE ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY.

WHEREAS, the Matanuska-Susitna Borough Planning Commission adopted Planning Commission Resolution 93-10 (Sub) on April 5, 1993 concerning the Railbelt Intertie Feasibility Study; and

WHEREAS, the Planning Commission expressed therein concerns about the impact of the proposed Northeast Intertie on private property, habitable structures and scenic beauty of the Glenn Highway; and

WHEREAS, the communities of Glacier View, Chickaloon, and Sutton have held multiple public meetings, at which the residents have expressed their concerns; and

WHEREAS, the Matanuska-Susitna Borough Assembly adopted Resolution 89-113 (Sub) on September 5, 1989 concerning the Railbelt Intertie Feasibility Study, dated April 1989; and

WHEREAS, the Matanuska-Susitna Borough Assembly wishes to reiterate those concerns about the proposed intertie's impacts on health, tourism drawing potential, fish and wildlife habitat, and wetlands, including:

- the very popular recreation areas traversed, including sections of the historic Chickaloon-Knik-Nelchina Trail and other well-travelled trails;
- opening up the Matanuska Valley Moose Range with concomitant impacts on wildlife habitat;
- an area of outstanding natural beauty, where the local economy is dependent upon income from tourism; and

WHEREAS, some scientific studies have suggested significant health impacts from electro-magnetic fields to children living near transmission lines.

NOW, THEREFORE, BE IT RESOLVED that the Matanuska-Susitna Borough Assembly recommends that the Alaska Energy Authority shall also study the feasibility of generating electricity in the Copper Valley from other sources including:

coal;

- natural gas reserves in the Copper Basin;
- natural gas from the proposed Yukon Pacific gas pipeline; and

BE IT FURTHER RESOLVED that the Matanuska-Susitna Borough Assembly recommends that the Alaska Energy Authority investigate the feasibility of upgrading the electrical transmission lines from Glennallen to Fairbanks to utilize energy produced by the Healy clean coal project and Chugach Electric Association; and

BE IT FURTHER RESOLVED that the Matanuska-Susima Borough Assembly recommends that the Alaska Energy Authority perform the feasibility study with the following consideration:

Assessment of the EMF hazards at the O'Neil Substation in Sutton, and relocation of the substation if necessary to mitigate EMF health hazards, so any transmission line connected to the substation would not pose a health problem; and

BE IT FURTHER RESOLVED that if all other alternatives are explored and found not be feasible, that the Matanuska-Susitna Borough Assembly recommends that the design and location of the intertie be done in such a way as to mitigate these concerns.

ERNEST W. BRANNON, Borough Mayor

ATTEST:

LINDA A DAHL, Borough Clerk

(SEAL) .

MATANUSKA-SUSITNA BOROUGH PLANNING COMMISSION RESOLUTION 93-10 (Substitute)

A RESOLUTION OF THE MATANUSKA-SUSITNA BOROUGH PLANNING COMMISSION CONCERNING THE ALASKA ENERGY AUTHORITY COPPER VALLEY INTERTIE FEASIBILITY STUDY

WHEREAS, the Matanuska-Susitna Borough Assembly adopted Resolution 89-113 (Sub) on September 5, 1989 concerning the Railbelt Intertie Feasibility Study, Draft Final Report, dated April 1989; and

WHEREAS, the Assembly expressed therein concerns about the impact of the proposed Northeast Intertie on private property, habitable structures and scenic beauty of the Glenn Highway; and

WHEREAS, the Matanuska-Susitna Borough Planning Commission wishes to reiterate those concerns about the proposed intertie's impacts on health, tourism drawing potential, fish and wildlife habitat, and wetlands, including:

- the very popular recreation areas traversed, including sections of the historic Chickaloon-Knik-Nelchina Trail and other well-travelled trails;
- opening up the Matanuska Valley Moose Range with concomitant impacts on wildlife habitat;
- an area of outstanding natural beauty, where the local economy is dependent upon income from tourism; and

WHEREAS, some scientific studies have suggested a high incidence of leukemia in children who live near powerlines.

NOW, THEREFORE, BE IT RESOLVED that the Matanuska-Susitna Borough Planning Commission recommends that the design and location of the intertie be done in such a way as to mitigate these concerns; and

BE IT FURTHER RESOLVED that the Matanuska-Susitna Borough Planning Commission recommends that the Alaska Energy Authority shall also study the feasibility of generating electricity in the Copper Valley from the following sources:

- coal:
- natural gas reserves in the Copper Basin;
- natural gas from the proposed Yukon Pacific gas pipeline; and

BE IT FURTHER RESOLVED that the Matanuska-Susitna Borough Planning Commission recommends that the Alaska Energy Authority investigate the feasibility of upgrading the electrical transmission lines from Glennallen to Fairbanks to utilize energy produced by the Healy clean coal project and Chugach Electric Association; and

BE IT FURTHER RESOLVED that the Matanuska-Susitna Borough Planning Commission recommends that the Alaska Energy Authority perform the feasibility study with the following consideration:

Assessment of the EMF hazards at the O'Neil Substation in Sutton, and relocation of the substation if necessary to mitigate EMF health hazards, so any transmission line connected to the substation would not pose a health problem; and

ADOPTED by the Matanuska-Susitna Borough Planning Commission, this 512 day of 7993.

CARL DEPRIEST, Chairman

ATTEST:

LINDA KETCHUM, Planning Clerk

COPPER RIVER SCHOOL DISTRICT

RESOLUTION NO. 93-06

Support of the Sutton to Glennallen Intertie and the Alaska Energy Authority Reorganization Plan

- the Copper River School District is located within the Copper River Basin, and WHEREAS, is a member/owner of Copper Valley Electric Association, Inc., and all but two district schools receive central station service from Copper Valley Electric Association, Inc., and
- Copper Valley Electric Association's members pay among the highest WHEREAS, unsubsidized electrical rates in the State of Alaska; and
- Copper Valley Electric Association has pursued many alternatives to facilitate WHEREAS, rate stability and possibly rate reduction for its member/owners, and as a result of an economical reassessment of various proposals, it was determined to be in the best interest of the members that Copper Valley Electric pursue the funding for the design and construction of the Sutton to Glennallen intertie; and
- the Sutton to Glennallen intertie will benefit the people of the Copper River WHEREAS, basin and the Copper River School District, through future rate stabilization and possibly a rate reduction, it would reduce or possibly eliminate the need for fossil fuel generation and the exhaust emissions, and would support the economical development of our area; and
- the Alaska Energy Authority has developed a reorganization plan and would WHEREAS, utilize the funds available in the Railbelt Energy Fund, the Railbelt Intertie Reserve Fund, and Bradley Lake Construction fund, and a \$20 million appropriation from the state to develop a Revolving Fund that would be used for strengthening the electrical intertie grid, including partial funding for constructing the Sutton to Glennallen intertie, supporting the Power Equalization Program for the next 20 years, and facilitate conservation efforts; and
- the Alaska Energy Authority reorganization plan acknowledges the Sutton to WHEREAS, Glennallen intertie as a viable project for the benefit of Alaskans residing within the Copper Valley Electric Association service territories; now
- THEREFORE, BE IT RESOLVED the Copper River School District Board of Education supports Copper Valley Electric Association's efforts and respectfully requests the 18th Legislature support the Alaska Energy Authority Reorganization Plan and/or an appropriation for the funding of the design and construction of the Sutton to Glennallen intertie.

_day of February, 1993 in Glennallen, Alaska. Approved and signed this

John Devenport airman of the Board

COPPER VALLEY INTERTIE FEASIBILITY STUDY

Appendix O

ELECTRIC SYSTEM ANALYSIS BY POWER TECHNOLOGIES, INC.

ELECTRICAL ANALYSIS OF THE COPPER VALLEY TRANSMISSION INTERTIE

INTRODUCTION

This report presents the results of the electrical analysis of the proposed Copper Valley Transmission Intertie. This analysis is part of the Phase I effort outlined in the Alaska Energy Authority's (AEA) RFP. This analysis was performed and documented by Power Technologies, Inc. (PTI) as sub-consultant to R. W. Beck and Associates.

As proposed, the intertie would consist of a transmission line from the Pump Station 11 Substation near Glennallen on the Copper Valley Electric Association (CVEA) system to the O'Neill Substation near Sutton on the Matanuska Electric Association (MEA) system (Glennallen-Sutton Intertie). The proposed intertie would be the first interconnection from the small, isolated CVEA system (which extends from Glennallen to Valdez) to the much larger, multi-utility Alaska Railbelt system.

The major portion of the proposed Glennallen-Sutton Intertie would be a 138 kV transmission line approximately 134 miles in length. This line would operate at the same nominal voltage as the existing CVEA transmission facilities. A 138/115 kV transformer would also be required at O'Neill to allow interconnection to the MEA transmission system operating at a nominal voltage of 115 kV. For this study, the intertie transformer was assumed to be a 12/16/20 MVA unit. In addition, reactive compensation and switching facilities would be required as part of the interconnection.

The analysis performed on the proposed Glennallen-Sutton Intertie and summarized in this report consists of steady-state power flow, fundamental voltage switching response, and transient stability simulations. This analysis provides a preliminary indication as to the feasibility of the proposed interconnection between CVEA and the Alaska Railbelt system. The analysis considered both pre and post-interconnection characteristics and limitations of the CVEA and Railbelt systems. The pre and post-interconnection analysis allows the impact of the intertie (positive & negative) on both the CVEA and Railbelt systems to be assessed.

The results of this analysis are presented in two sections. The first section of this report presents the results of the steady-state power flow and fundamental voltage switching simulations. This includes a description of the power flow data and system conditions evaluated. The second section of this report presents the results of the dynamics simulations. This section also describes the dynamics modeling and conditions considered in the dynamics simulations.

SUMMARY

Switching study simulations show that with the proper reactive compensation, energization of the intertie is feasible from either the Railbelt or the CVEA system. This applies for peak and system low load conditions on both systems and for different generation dispatches on the CVEA system. Switching voltage performance is better when the intertie is energized from the Railbelt system due to its size. The Railbelt system is the preferred source for line energization given no other operating constraints. Moreover, energization of the intertie from the CVEA system would serve no purpose other than to allow service to a small amount of MEA load in the event of a prolonged service interruption to MEA.

A 10 Mvar line-connected, shunt reactor at the Glennallen end of the intertie is required to provide acceptable line energization and steady-state voltage performance. Based on system voltage profiles for Winter Peak load conditions with up to a 10 MW power transfers into CVEA (the maximum studied), the line-connected, shunt reactor at the Glennallen end of the intertie does not have to be switched.

The results of the steady-state power flow analysis show that the interconnection of the CVEA and Railbelt systems by the proposed 138 kV line is technically feasible. The Glennallen-Sutton Intertie provides acceptable steady-state performance under the various load level, power transfer and generation dispatches analyzed.

The Glennallen-Sutton Intertie does not degrade the performance of the MEA system in terms of voltage (low or high) during line outages or open breaker conditions. The MEA system without the intertie performs approximately the same as the system with the intertie when transferring 10 MW to the CVEA system. For the lower transfer conditions, the voltage performance of the MEA system is better with the intertie than it is without the intertie.

The Glennallen-Sutton Intertie will only marginally affect potential line overloading situations on the MEA 115 kV system. Other factors within the Railbelt system can far more significantly influence overloads on the MEA 115 kV system than the proposed intertie.

The interconnected CVEA-Railbelt system exhibits stable dynamic response for non-islanding disturbances in either system. The CVEA system is stable for such disturbances under Winter Peak load conditions and operating with a broad range of generation dispatch and import conditions. Disturbances in the CVEA system do not significantly effect the MEA system to which the CVEA system would be interconnected.

The Railbelt system is subject to instability across the Northern Intertie for loss of the Pt. Mackenzie-Teeland 230 kV line with moderately large transfers (i.e., about 40 MW) to the north. The Glennallen-Sutton Intertie does not significantly effect the Northern Intertie transfer stability limit. With the intertie, a 10 MW transfer to CVEA will decrease the Northern Intertie transfer stability limit by about 2 MW.

However, without any power transfer to CVEA, the intertie increases the Northern Intertie transfer stability limit by about 2 MW. The net stability impact from the Glennallen-Sutton Intertie is insignificant considering that the Northern Intertie often operated far above its transfer stability limit.

The reliability of the CVEA system will be impacted by the proposed intertie, and may be more prone to total or partial black outs as a result of interconnected operation. This reliability impact is the natural consequence of changing internal generation dispatch and relying heavily on the intertie. However, the intertie will make the CVEA system immune from loss of load due to loss of internal generating units. Thus, the intertie will both improve and degrade the reliability of the CVEA system based on the perspective from which the reliability is considered.

With the Glennallen-Sutton Intertie, the CVEA system will become subject to disturbances affecting the Railbelt system. The most significant of these may be underfrequency situations which occur on the Railbelt following large generation losses. The Railbelt utilities collectively shed load in response to underfrequency conditions on the interconnected Railbelt system. As a consequence of operating as part of this interconnected system, CVEA may also be required to participate in the Railbelt underfrequency load shedding program.

Further analysis and development of an underfrequency load shedding scheme in the CVEA system is warranted. This analysis will be required to identify CVEA load shedding needed in response to interconnected CVEA-Railbelt underfrequency conditions. It is also necessary to develop a load shedding strategy which will allow the CVEA system to maintain service to critical loads for the broad range of generation dispatches and import conditions which will be possible with the intertie.

The configuration of the 115 kV switching facilities which are required at the Sutton end of the proposed intertie will effect the exposure of the CVEA system to potential islanding disturbances originating in the Railbelt system. Switching Configuration B (discussed below) which is based on placing the 115 kV circuit breaker facilities at MEA's O'Neill Tap Substation is the most effective at reducing CVEA's exposure to islanding. This switching configuration maximizes the benefit of the two-way feed capability offered by the existing MEA 115 kV system. This switching configuration also provides the most benefit to the MEA system in that it reduces the exposure of MEA's loads to interruption due to any single disturbance event on the MEA system.

FUTURE CONSIDERATIONS

The initial purpose for the Glennallen-Sutton Intertie is to interconnect the CVEA and Railbelt systems. This allows CVEA to benefit from surplus, less-costly Railbelt energy resources and the reliability benefits of being part of a larger interconnected system. In this initial role, the intertie requirements are relatively limited (power transfer requirements in the 10-20 MW range), and the design requirements for the interconnection facilities are fairly small. However, there are potential future requirements which may influence the design of the initial intertie facilities.

Previous long-range plans for the Railbelt system have proposed and considered a second interconnection between the Anchorage and Fairbanks areas (Sutton-Glennallen-Delta Junction). The Glennallen-Sutton Intertie would form one segment of this proposed transmission interconnection facility. The proposed Anchorage-Fairbanks interconnection would support higher power transfers from Anchorage to Fairbanks. It would also improve overall Railbelt system reliability by providing a back-up to the existing Northern Intertie.

The existing Northern Intertie has steady-state transfer limits of about 70 MW, but dynamic transfer limits are substantially lower. The second intertie would increase both the steady-state and dynamic transfer limits of the Anchorage-Fairbanks interconnection. Steady-state and dynamic transfer limits of 100-120 MW might be possible with the second intertie. Thus, the Glennallen-Sutton line section, as part of such an intertie, could potentially experience loadings in the 100-120 MW range under single contingency conditions. Such loading levels are well above the initial 10-20 MW loading expectations for this line. This would significantly impact conductor sizing, sag limits, voltage drop and losses on this facility.

In the Glennallen-Sutton Intertie's initial role, deviation in power transfer levels are small. Thus, the line-connected reactor proposed as part of this intertie does not need to be switched for voltage control purposes. However, as power transfer requirements for the Glennallen-Sutton Intertie increase, switching of the proposed line-connected reactor will likely become necessary. Thus, the initial design and layout of the line-connected reactor should consider and provide for the easy addition of a switching device in the future.

The MEA 115 kV system forms one leg of a transmission triangle between Pt. Mackenzie, Teeland and Anchorage. This 115 kV system serves about 85 MW of load. The Pt. Mackenzie-Teeland and Pt. Mackenzie-Anchorage legs of the triangle are 230 kV facilities. Connected radially from Pt. Mackenzie is the Railbelt's largest and least costly generation resource (Beluga). Connected to Anchorage is the largest concentration of load in the Railbelt system. Teeland is the interconnection point to the Fairbanks area, and significant power transfers can occur through this point.

Under normal conditions, the entire Beluga plant output can be delivered to the Anchorage loads and to the Teeland interconnection point via the 230 kV facilities. Further, the MEA 115 kV does not experience significant through-flow under normal

conditions. Under normal conditions, the power flows on the MEA 115 kV system are dictated primarily by the loads served from it.

However, for loss of either 230 kV connection out of Pt. Mackenzie, the MEA 115 kV system is subject to excessive through-flow, and generation at Beluga may have to be curtailed. This can elevate flows on the 115 kV system to excessive levels and can result in overloading on these facilities. Additional demands placed on the MEA system by the Glennallen-Sutton Intertie (either for deliveries to CVEA or transfer associated with the future interconnection to Fairbanks) will further worsen the potential impacts on the MEA 115 kV system. Thus at some point, the combination of the Glennallen-Sutton Intertie and the other impacts will necessitate reinforcement of the MEA system.

This reinforcement to the MEA system would likely be in the form of a 230 kV transmission connection between Teeland and Anchorage. The interface point to bolster the MEA 115 kV system and to support the demands of the Glennallen-Sutton Intertie would likely be at the existing O'Neill Tap 115 kV Substation. A possible configuration for this interface point could be composed of the following

- A 230/138 kV transformation at the O'Neill Tap
- A 138/115 kV transformation at the O'Neill Tap
- Conversion of the O'Neill Tap-O'Neill 115 kV line to 138 kV

Relative to the initial facilities provided as part of the Glennallen-Sutton Intertie, this future reinforcement option has the following facility design implications. These implications are discussed in the following paragraphs.

A transmission connection to the MEA system of the nature indicated will require 115 kV circuit breaker facilities. Such facilities are proposed as part of the Glennallen-Sutton Intertie, and they could be installed at either the O'Neill Tap or the O'Neill Substation (see breaker configuration discussed in report). The O'Neill Tap is the preferred location for these circuit breaker facilities based on the analysis performed in this report for the initial intertie facilities. This future interface requirement further supports the feasibility of this breaker configuration as it would readily provide for termination of the suggested 138/115 kV transformer at the O'Neill Tap.

Conversion of the O'Neill Tap to O'Neill 115 kV line to 138 kV will, among other things, require 138 kV termination facilities to be installed at O'Neill. Such termination facilities would only need to consist of line dead-end structures, bus work & supports and disconnect switches. Substation facilities are presently proposed for installation at O'Neill to interface the 138 kV intertie to the existing MEA 115 kV facilities. A portion of these facilities are presently designed for 115 kV operation. However, such equipment could be designed and rated for 138 kV operation and operated at 115 kV in the initial period. They would then be compatible with the future upgrade of the subject line without alteration or further investment. This option further suggests that 115 kV circuit breaker facilities should not be installed

at O'Neill, but rather should be installed at the O'Neill Tap as suggested above and supported by the analysis performed as part of this study.

A 138/115 kV transformer will be required at O'Neill to interconnect the intertie with the MEA 115 kV facilities. This transformer is proposed as a 12/16/20 MVA, OA/FA/FA unit. With future conversion of the O'Neill Tap to O'Neill line to 138 kV as hypothesized above, this transformer would no longer be required. However, a 138/115 kV transformer would be required at the O'Neill Tap as part of the interface of the 230 kV, 138 kV and 115 kV facilities. To be of significant benefit for bolstering the MEA 115 kV system, this 138/115 kV transformer would need to have a peak capacity of about 100 MVA. This capacity could be provided in the form of a single, large transformer or two 'half-size' transformers operated in parallel. A 'half-size' transformer could thus have a rating of 30/40/50 MVA, OA/FA/FA and meet the requirements.

A transformer of this size could be purchased (without the forced air cooling equipment) for the initial interconnection and utilized a the O'Neill Substation. It could later be relocated to the O'Neill Tap, and the cooling equipment could then be installed. A second 'half-size' unit could then be purchased and operated in parallel. Although this would slightly increase the transformation cost for the initial intertie, it would provide a transformer of sufficient size which is useable in the network. The larger transformer would, however, have an immediate benefit in that it would have lower losses than the proposed 12/16/20 MVA unit and would thus result in some operating savings.

The factors related to the future use and requirements of the Glennallen-Sutton Intertie should be considered and addressed in the evaluation and design of the proposed intertie. This does, however, create a dilemma which is difficult to resolve. This dilemma is in effect a 'double-edge sword'. Incorporation of future use requirements into the initial design of the Glennallen-Sutton Intertie will escalate the initial cost of the facility. Without reasonable expectation that such future use requirements will ever arise, the additional expenditure in the intertie may be unwarranted and may compromise the economic viability of the initial facility. However, failure to adequately consider and incorporate future requirements in the initial design may render the facility unusable as part of the future interconnection without significant additional expenditure (i.e, for conductor replacement, increased sag clearances, etc.). This could then compromise the economic viability and feasibility of the long-range transmission interconnection plan.

The Glennallen-Sutton Intertie, although proposed by CVEA solely for its benefit, has potential long-range uses which may be of benefit and interest to other Railbelt utilities. Construction of the Glennallen-Sutton 138 kV line by CVEA may increase the feasibility of another utility constructing of the Glennallen-Delta Junction 138 kV line. However, the feasibility of constructing the Glennallen-Delta Junction line may hinge on the capabilities designed into the Glennallen-Sutton Intertie.

Consultation with adjacent utilities would be prudent to explore and identify common

needs and interests in the Glennallen-Sutton and Glennallen-Delta Junction transmission interconnections. Such discussions could identify cost sharing options by other utilities for incremental enhancements (e.g., larger conductor, larger transformer, etc.) in the Glennallen-Sutton Intertie. These incremental improvements by others could marginally improve the CVEA's economic feasibility for the Glennallen-Sutton Intertie (due to lower losses). Further, it could have long-range benefits to CVEA by increasing the likelihood that the Glennallen-Delta Junction line would be constructed. This would provide a two-way transmission connection from the Railbelt to the CVEA system and would enhance the reliability of CVEA's interconnection. It would also provide transaction capabilities with additional Railbelt utilities.

POWER FLOW & SWITCHING ANALYSIS

Data Base & Simulation Conditions

The power flow data base developed for the CVEA system was based on a preliminary model established by AEA. This model was updated and modified to represent the CVEA system configuration and conditions as appropriate for this study. The updated model utilized the best available information as provided by CVEA, and reasonable assumptions were made where actual data was not available.

The CVEA data base represents the entire CVEA system down to the first major distribution bus (i.e., 12.5 kV or 4.16 kV) at the significant load points in the system. It also represents the existing, fixed generating units. The model represents only the positive sequence network. The CVEA system data base includes the proposed 138 kV transmission line and 138/115 kV transformer at the Sutton interconnection point with the MEA system.

Prior to commencing this study, a detailed data base of the Railbelt system had been developed and maintained PTI in conjunction with other studies performed for AEA. The existing Railbelt data base was used with only minor modification for this study, and the CVEA data base was appended to the Railbelt data base to form an integrated power flow model data base.

The power flow data base for the interconnected CVEA-Railbelt system is in PTI's Power System Simulator for Engineers (PSS/E) data format. The listing of the data for the CVEA portion of the data base is presented in Appendix A. Data for the Railbelt portion of the data base was not included due to its size and since this data has been reported in other studies performed for AEA.

For this study, the interconnected system was analyzed under two loading conditions. The two conditions are as shown in the following table.

Loading Condition	Railbelt System Load (MW)	CVEA System Load (MW)
Winter Peak	580	12.2
System Low	254	6.5

The Winter Peak load condition is indicative of the maximum loading conditions on the two systems. It was selected in order to analyze the system under it most stressed state where low voltage, line overloading, and stability problems would most likely occur.

The System Low load condition is indicative of a minimum loading condition (such as would occur in the spring or fall) on the two systems. The System Low conditions was selected to analyze system steady-state performance when high voltage would

most likely be a problem. This loading condition was also selected to assess the reactive compensation requirements for the 134 mile long, 138 kV transmission line.

For the Winter Peak load condition, several dispatches were considered for the CVEA system. These generation dispatches are summarized in Appendix B. These dispatches were established to represent the day to night generation shift presently used as well as a predominantly hydro generation scenario which might likely occur with the intertie in service. Also, generation dispatches were selected for the interconnected conditions to represent moderate and large imports into the CVEA system.

For the System Low loading condition, two generation dispatches were analyzed for the CVEA system. Both dispatches represented a zero transfer between the Railbelt and CVEA system and attempted to maximize the voltages which could exist on the interconnected system. One dispatch was a predominantly hydro dispatch and was utilized only for switching studies. These generation dispatches are also summarized in Appendix B.

For the Railbelt system, generation dispatches utilized for the Winter Peak and System Low loading conditions are indicative of that presently used in the Railbelt system. This dispatch includes the Bradley Lake hydro generation in both load conditions. This dispatch also assumes only modest levels of power transfer from the Anchorage area to the Fairbanks area. Except for a few cases specifically established to evaluate the Anchorage to Fairbanks transfer stability limit, the Anchorage to Fairbanks transfer is as shown in the following table.

Anchorage To Fairbanks Power Transfer

Loading Condition	Transfer
Winter Peak	20.0 MW
System Low	15.5 MW

For the Winter Peak load condition, the transfer is approximately equal to GVEA's (Golden Valley) firm power allocation from Bradley Lake based on Bradley operating at the 120 MW output level. For the System Low load condition, the transfer is composed of GVEA's Bradley Lake allocation (for 50 MW Bradley output) plus economy energy necessary to supplement the base-load, coal fired generation in the Fairbanks area.

Discussion of Switching Simulations

Switching simulations were performed first to determine the requirements for reactive compensation on the Glennallen-Sutton 138 kV line. These simulations evaluated reactive compensation levels based on both energization 'transient' and post-energization, steady-state conditions. These simulations considered energization of the intertie from each end under both Winter Peak and System Low load

conditions. Several reactive compensation levels and reactor locations were analyzed. Intertie energization from the CVEA system also considered different generation dispatches for the two load conditions. However, only the 'no compensation' simulations and simulations for the final reactive compensation option have been summarized in this report. These are noted below, and the results are shown in Appendix C.

INTERTIE ENERGIZATION LOAD/DISPATCH CONDITIONS REPORTED

From Railbelt System

- Winter Peak Load with & without reactor
- System Low Load with & without reactor

From CVEA System

- Winter Peak Day Dispatch with & without reactor
- Winter Peak Hydro Dispatch with & without reactor
- System Low Mixed Dispatch with & without reactor
- System Low Hydro Dispatch with & without reactor

Each case is illustrated by three power flow one-line diagrams. The first one-line represents the condition just prior to energization (t=0). The second one-line represents the system condition just after energization, but before flux levels in the generators have changed (t=0 $^{+}$). The last one-line represents the system condition after energization and after generator voltage regulator action has occurred and the system has reached a new steady-state operating condition.

Analysis of these switching cases indicates that energization of the Glennallen-Sutton Intertie from either end is not a problem if a 10 Mvar line-connected shunt reactor is installed at Glennallen. Voltages are lower if the line is energized from the Railbelt system. This is because the Railbelt is electrically 'stiffer' than the CVEA system.

Discussion of Steady-State Power Flow Simulations

A number of post-contingency power flow simulations were performed to determine the effect of the intertie on the MEA system. These simulations analyzed the MEA system voltage and line loading levels with and without the intertie in service. The analysis consisted of developing the base case in which the system is initially operating in a normal condition and then subjecting it to a single contingency. The contingencies simulated represented line outage and open-ended line conditions such as would occur for an open breaker.

The results are shown in one-line power flow diagram form in the appendices and grouped by system load, intertie condition and transfer level as noted below.

Appendix D: Winter Peak, no intertie

Appendix E: Winter Peak, intertie with 0 MW transfer Appendix F: Winter Peak, 5 MW transfer to CVEA Appendix G: Winter Peak, 10 MW transfer to CVEA

Appendix H: System Low, no intertie

Appendix I: System Low, intertie with 0 MW transfer

All the simulations utilized the same basic Railbelt generation dispatch for each load level. For transfers to the CVEA system, the additional generation in the Railbelt system was supplied from the Beluga plant. For all cases, the 10 Mvar line-connected shunt reactor, identified from the switching studies and discussed above, was in service at the Glennallen end of the 138 kV intertie.

For the Winter Peak conditions, the contingencies that were studied consisted of the following:

- 1) Loss of the 230 kV line between Point Mackenzie and Teeland
- 2) The 115 kV breaker open at AMLP Plant 2
- 3) The 115 kV north breaker open at Eklutna
- 4) The 115 kV breaker open at Teeland
- 5) Loss of the 115 kV line between AMLP Plant 2 and Eklutna
- 6) Loss of the 115 kV line between Teeland and O'neill Tap
- 7) Loss of the 115 kV line between Eklutna and O'neill Tap

Of the above contingencies, three of these resulted in the most significant drop in voltages on the MEA system:

- Loss of the Pt. Mackenzie-Teeland 230 kV line
- The 115 kV breaker open at AMLP Plant 2
- The 115 kV breaker open at Teeland

The largest voltage drop for each of these three contingencies is given in the table below. For the MEA system, the worst contingency is the opening of the Teeland 115 kV breaker which leaves all of the MEA load fed radially from the AMLP Plant 2. This is the only contingency which resulted in voltages exceeding the Railbelt criteria level. However, this contingency resulted in criteria being exceeded even without the intertie. The Railbelt criteria require that post-contingency steady-state voltages must settle within 5% of their pre-contingency value.

As indicated in the table below, the intertie does not adversely affect voltages on the MEA system. The voltage profile of the MEA system without the intertie and with the intertie, but transferring 10 MW, is approximately the same. With intertie transfers of 5 MW or less, the voltage drop was less than in the cases without the intertie. Thus, the line capacitance of the intertie can have a benefit to the MEA system from a voltage support perspective.

	Largest Voltage Drop on MEA 115 kV System (pu)			
Contingency	No Tie	Tie - 0 MW Transfer	Tie - 5 MW Transfer	Tie - 10 MW Transfer
Pt. Mackenzie-Teeland	0.042	0.038	0.043	0.045
Plant 2 breaker open	0.041	0.034	0.036	0.041
Teeland breaker open	0.062	0.047	0.052	0.061

The results of the power flow simulations do not show line loadings on the MEA system to be a problem for the conditions studied. The largest line loading occurred on the AMLP Plant 2 to Briggs Tap 115 kV line. This occurred for the outage of the Pt. Mackenzie-Teeland 230 kV line. With the intertie in service and transferring 10 MW to CVEA, this 115 kV line loading was 100 MVA. Without the intertie, this loading was only 89 MVA. Both loadings are within the 120 MVA thermal conductor rating assumed for this line.

Based on the configuration of the Railbelt and MEA systems, loadings on the MEA 115 kV system for outage of the Pt. Mackenzie-Teeland 230 kV line can be extreme. Cases could have been developed (without the Glennallen-Sutton Intertie) which would have resulted in excessive overloads on the MEA 115 kV system. Such cases with the intertie and transferring power to CVEA would have shown larger overloads (this would be the same effect as higher MEA loads). However, loadings on the MEA 115 kV system are more significantly impacted by power transfers from Anchorage to Fairbanks and the level of generation at the Eklutna Hydro plant. Thus, although the Glennallen-Sutton Intertie will have an impact on MEA 115 kV line loadings, the impact from this intertie is very small compared to other factors which can influence the loading on the MEA system.

For the Railbelt System Low load condition, the following contingencies were also analyzed. These contingencies were considered to identify any high voltage problems on the MEA 115 kV system which might be created by the Glennallen-Sutton intertie.

- 1) The 115 kV breaker open at Teeland
- 2) The 115 kV breaker open at AMLP Plant 2
- 3) The 115 kV north breaker open at Eklutna

These diagrams show that high voltages are not a problem with or without the intertie. With the Glennallen-Sutton intertie in service but transferring no power, the voltages on the MEA 115 kV system are at most 1% higher than they are without the intertie. This is an insignificant influence.

DYNAMIC RESPONSE ANALYSIS

Dynamics Models & System Configuration

The data base for supporting the dynamic simulations performed as part of this study is composed of time-domain response models of the generators, excitation systems and turbine-governors associated with each of the generating units on the CVEA system. The modelling of generating equipment on the CVEA system was based on data received from AEA and CVEA. This data consisted primarily of generator rating, impedances and time constants obtained from manufacturer's data. In cases where data was unavailable (such as for some of the generator parameters and nearly all of the exciters and governors), reasonable data estimates were made based on known information for similar types of generating units.

As with the power flow data base used in this study, PTI had developed an extensive dynamics model data base of the Railbelt system in conjunction with other studies performed for AEA. The CVEA dynamics model data was combined with the dynamic data for the Railbelt system to form the integrated dynamics model data base for this study. This dynamics data is in PTI's PSS/E dynamics data format. A listing of the dynamics models and associated data for all the generating units on the CVEA system is presented in Appendix AA.

After development of excitation and turbine-governor models for the CVEA generators, the data was validated through off-line tests prior to incorporation in the dynamics data base. These tests demonstrate the reasonableness of the model parameters used to represent such equipment. The results from the excitation system response tests are given in Appendix BB. The results from the turbine-governor response tests are given in Appendix CC.

These tests indicate that the models are stable in the off-line mode. Models which exhibit stable response in the off-line mode will provide stable response when part of an interconnected system. It should be noted, however, that these tests do not confirm or verify the accuracy with which these models represent the actual equipment. These tests merely establish that the models exhibit reasonable response characteristics. Much more data collection effort and field testing would be required to fully verify the accuracy and validity of the dynamic models developed for the CVEA generating equipment as part of this study.

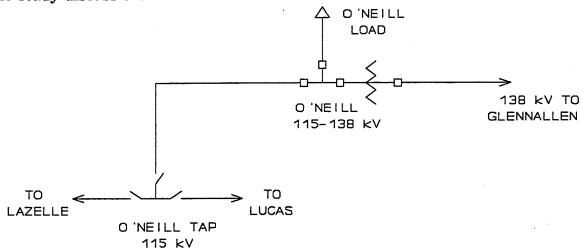
System stability problems generally occur when power transfers and system load levels are high, and when the potential for regional generation/load imbalances are the greatest. Therefore, the dynamic simulations performed for this study utilized only the Winter Peak load condition with the various generation dispatches noted in Appendix B.

The dynamics simulations also considered system configurations (i.e., circuit breaker location) associated with the Glennallen-Sutton Intertie which could

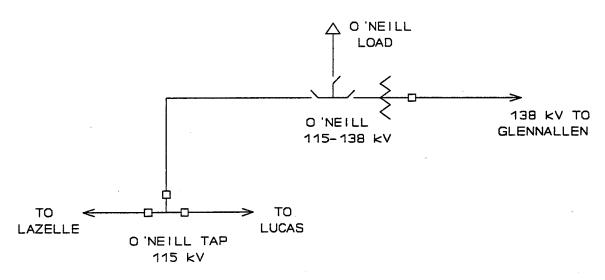
influence the dynamic response of the interconnected system. Two breaker arrangements were assumed in the dynamics simulations performed in this study:

Configuration A: 3-breaker 115 kV switching station at O'neill (Sutton)
Configuration B: 3-breaker 115 kV switching station at O'neill Tap

These two configurations are illustrated below. These breaker configurations affect the system response for only some contingencies studied. Thus, where the breaker arrangement does affect the dynamic response, it is explicitly identified in the study discussion.



CONFIGURATION A



CONFIGURATION B

Discussion of Intertie Effect on Railbelt Transfers

As noted in the power flow section of the report, the outage of the Pt. Mackenzie-Teeland 230 kV line can significantly impact the loading on the MEA 115 kV system. The degree of impact from this outage is related to the magnitude of the power transfers from Anchorage to Fairbanks. The 230 kV outage along with high power transfers from Anchorage to Fairbanks can effect the stability of the Anchorage-Fairbanks interconnection (Northern Intertie).

To determine what effect the Glennallen-Sutton Intertie has on the Northern Intertie stability limit, several dynamics simulations were run with and without the Glennallen-Sutton Intertie in service. These simulations considered a 4-cycle fault at Point Mackenzie with the subsequent trip of the Point Mackenzie-Teeland 230 kV line. These simulations also considered Anchorage to Fairbanks transfers which are above the present firm power transfer (i.e., GVEA's Bradley Lake allocation) requirements of the Northern Intertie. The plots from these simulations are shown in Appendix DD. The following table summarizes the results.

Northern Intertie Stability Limit for Pt. Mackenzie-Teeland 230 kV Outages Under Anchorage to Fairbanks Power Transfer Conditions	
System Condition	Transient Stability Transfer Limit
No Glennallen-Sutton Intertie	42 MW
Glennallen-Sutton Intertie with 0 MW transfer to CVEA	44 MW
Glennallen-Sutton Intertie with 5 MW transfer to CVEA	43 MW
Glennallen-Sutton Intertie with 10 MW transfer to CVEA	40 MW

The intertie with a 10 MW transfer to CVEA decreases the stability margin for Anchorage to Fairbanks transfers by 2 MW. However, the intertie with lesser transfers to CVEA slightly increases the stability margin. Therefore the effect from the Glennallen-Sutton Intertie on the Northern Intertie transfer stability margin is negligible. Further, the steady-state transfer levels from Anchorage to Fairbanks can be as large as 70 MW. Under such conditions, the Northern Intertie is grossly above its stability margin. The Railbelt would be subject to instability following the loss of the Pt. Mackenzie-Teeland 230 kV line regardless of the Glennallen-Sutton Intertie. Thus, the 2 MW decrease in the Anchorage-Fairbanks transfer stability margin does not appear to be an overly critical factor.

Discussion of Effect of Intertie on MEA

Of all the Railbelt utilities, the intertie could have the greatest effect on the MEA system. To study this effect, the system must be analyzed from two viewpoints:

- effect of Railbelt faults on MEA system, with and without the intertie
- effect of CVEA faults on the MEA system.

The following five disturbances were simulated to assess the effect of Railbelt faults on the MEA system. These disturbances were analyzed for Northern Intertie transfers equal to the present firm requirements (about 20 MW).

- 1) 4-cycle fault at Pt. Mackenzie, loss of Pt. Mackenzie-Teeland 230 kV line
- 2) 4-cycle fault at Eklutna, loss of Eklutna-Plant 2 115 kV line
- 3) 4-cycle fault at Eklutna, loss of Eklutna-Teeland 115 kV line
- 4) 4-cycle fault at O'neill Tap, loss of O'neill Tap-Teeland 115 kV line
- 5) 4-cycle fault at O'neill Tap, loss of O'neill Tap-Eklutna 115 kV line

Disturbance item 3 above assumes breaker Configuration A noted earlier. Disturbance items 4 and 5 above assume breaker Configuration B. The plots of these disturbance simulations are given in Appendix EE.

The response of the MEA system without the Glennallen-Sutton Intertie versus the response with the intertie carrying minimal flow is approximately the same. The angular swings across the Railbelt system and voltage excursions on the MEA 115 kV system are higher when the intertie is in service and carrying 10 MW. However, the effect of the Glennallen-Sutton Intertie on the MEA system for Railbelt disturbances is minimal.

Appendix FF contains plots showing the effects of CVEA system disturbances on the MEA system. This includes results for only the Winter Peak Day, 5 MW Import, and 10 MW Import CVEA generation dispatch conditions. The following disturbances in the CVEA system were examined:

- 1) 4-cycle fault at one Petro Star 25 kV bus
- 2) 4-cycle fault at Meals, trip Meals-PS12 138 kV line
- 3) 4-cycle fault at Glennallen 25 kV bus
- 4) 4-cycle fault at PS11, trip PS11-PS12 138 kV line
- 5) Loss of Solomon Gulch Unit 1
- 6) 4-cycle, 138 kV fault at O'Neill, loss of 138/115 kV transformer

The results of these simulations show that faults in the CVEA system have minimal effect on the MEA system. Of the above disturbances, the most significant disturbance affecting the MEA is the fault on the intertie facilities. However, this disturbance is no more significant than the disturbances originating on the MEA and Railbelt portions of the system.

Discussion of Effect of Intertie on CVEA

The proposed Glennallen-Sutton Intertie can have both beneficial and detrimental effects on the CVEA system. It allows replacement of most, if not all, of the diesel generation normally used in the CVEA system with surplus hydro and natural gas powered generation in the Railbelt. This is an economic benefit driving the consideration of the Glennallen-Sutton Intertie.

However, from the reliability standpoint, the CVEA system becomes more at risk when it relies on the intertie since it is radially connected from MEA's 115 kV loop. Under moderate to heavy import, loss of the intertie would cause a blackout or significant loss of load on the CVEA system. Further, faults on the CVEA 138 kV lines could island the southern portion of the CVEA system (i.e., Solomon Gulch and Valdez) and result in significant loss of load regardless of the Glennallen-Sutton Intertie. Moreover, the intertie can expose the CVEA system to disturbances (e.g., Railbelt underfrequency, MEA system faults, etc.) to which it was previously immune.

To test the impact of the intertie on the CVEA system, the following CVEA system disturbances (as applicable for the specific dispatch scenario) were simulated on the isolated and interconnected CVEA system:

- 1) 4-cycle fault at one Petro Star 25 kV bus
- 2) 4-cycle fault at Meals, trip Meals-PS12 138 kV line
- 3) 4-cycle fault at Glennallen 25 kV bus
- 4) 4-cycle fault at PS11, trip PS11-PS12 138 kV line
- 5) Loss of Solomon Gulch Hydro Unit 1
- 6) Loss of Glennallen diesel Unit 6
- 7) Loss of largest Valdez diesel unit

The Winter Peak load condition was used, and the following generation dispatches were analyzed:

- Peak Day Dispatch
- Peak Night Dispatch
- Predominantly Hydro Dispatch

These generation dispatches are listed in Appendix B as noted earlier. It should be noted that the CVEA system does not presently operate with a predominantly hydro generation dispatch. However, with the Glennallen-Sutton Intertie a predominantly hydro dispatch will likely occur. Thus, this dispatch was analyzed for the isolated CVEA system for comparative purposes.

Appendix GG contains plots of the response of the isolated CVEA system to the disturbances noted above. The most severe disturbances for the isolated CVEA system are the fault and loss of the 138 kV lines connecting the northern and southern portions of the CVEA system.

Under the Winter Peak Day dispatch, the system can handle losses of the 138 kV lines, which island the two portions of the CVEA system, since fast-response generation (i.e., diesels) are dispersed in the system. The Valdez island connected to the Solomon Gulch units responds more slowly than the Glennallen island. This is due to the slow governor response and large inertia of the hydro units compared to the diesel units in the Glennallen island. The frequency of the Glennallen island returns to 60 Hz quickly due to the isochronous governor action of the diesels. Also, for the Winter Peak Day case, the system can handle the loss of any generating unit.

For the Winter Peak Night scenario, loss of either CVEA 138 kV line results in a significant load and generation imbalance in the Valdez island. This leads to collapse of this island due to the slow governor response from the Solomon Gulch hydro units. However, even under the Winter Peak Night generation dispatch, the isolated CVEA system can handle the loss of any generating unit.

The Winter Peak Predominantly Hydro case can only handle minor disturbances such as small load rejections (e.g., loss of one Petro Star 25 kV bus (serving 1.25 MW) or loss of Valdez Unit 4 (0.4 MW). The other disturbances studied caused severe frequency excursions on the CVEA system.

For the analysis of the interconnected CVEA system, the same three Winter Peak dispatch levels noted above were utilized. These dispatches assumed no import into the CVEA system. Two additional scenarios were also studied in which CVEA was importing 5 MW an 10 MW. These two additional dispatches are also listed in Appendix B. The plots from the CVEA interconnected cases are given in Appendix HH.

The results from these simulations show that the CVEA system is most reliable with the intertie in service, no power transfer on the intertie, and Winter Peak Day dispatch. As before, the Valdez area can survive outages on the CVEA 138 kV system. Further, the Glennallen portion of the CVEA system (i.e., the part that remains interconnected with the Railbelt) responds better, in terms of angular swings and voltage deviation, than when the system is isolated. The interconnected system responds better to non-islanding disturbances, such as loss of a unit, than when it is isolated. Loss of the intertie when there is no transfer is also not a problem for the CVEA system under this dispatch condition.

For the Winter Peak Night dispatch with the intertie in service, but with no import into the CVEA system, the CVEA system as a whole is stronger than when it was isolated. However, for loss of the CVEA 138 kV lines, the Valdez area of the system responds no better than without the intertie. However, the remainder of the CVEA system that stays connected to the intertie responds significantly better. The interconnected system responds better to non-islanding disturbances, such as loss of a unit, than when it is isolated. Loss of the intertie with no power transfer is not a problem.

Loss of the intertie does, however, become a problem when the CVEA system is importing power. For loss of the intertie, the entire CVEA system will 'go black'. Loss of any of the CVEA 138 kV lines will result in collapse of the Valdez area. Also, loss of the Glennallen-PS11 25 kV line will cause Glennallen to go black since there is no generation in that island for the 10 MW import case. However, for non-islanding disturbances, the CVEA system responds well under power import conditions with minimal internal generation.

The response of the CVEA system to a limited number of disturbances in the neighboring Railbelt system was also simulated. The disturbances evaluated are summarized as follows:

- 1) 4-cycle fault at Pt. Mackenzie, loss of Pt. Mackenzie-Teeland 230 kV line
- 2) 4-cycle fault at Eklutna, loss of Eklutna-Plant 2 115 kV line
- 3) 4-cycle fault at Eklutna, loss of Eklutna-Teeland 115 kV line
- 4) 4-cycle fault at O'neill Tap, loss of O'neill Tap-Teeland 115 kV line
- 5) 4-cycle fault at O'neill Tap, loss of O'neill Tap-Eklutna 115 kV line

These disturbances test the transient stability of the CVEA system when operating as part of the interconnected Railbelt system. These disturbances were run for all of the Winter Peak dispatches listed in Appendix B. The plots from the dynamic simulations of these disturbances are given in Appendix II.

The CVEA system can handle all of the non-islanding disturbances occurring in the Railbelt. The only significant Railbelt disturbance for CVEA is the loss of Eklutna-Teeland 115 kV. For this disturbance, breaker Configuration A noted above is assumed. In this case the intertie will be effectively opened, and the MEA load at O'neill will remain with the CVEA system. If there are significant transfers into CVEA or moderate transfers with a predominantly hydro generation dispatch in the CVEA system, the CVEA system will collapse following this disturbance.

There are other Railbelt disturbances which globally affect the Railbelt (e.g., large generation loss). The impact of such disturbances on the CVEA system was not evaluated. Such disturbances would not threaten the transient stability of the CVEA system, but would expose it to the same underfrequency experienced in the Railbelt.

Discussion of Intertie Breaker Arrangement

As noted and described previously, there are two breaker configurations which were considered in the dynamics simulations. These two configurations differ as to the placement of three 115 kV circuit breakers proposed as part of the Glennallen-Sutton Intertie. The significance of the circuit breaker arrangement was shown to be relevant in three Railbelt disturbance situations. These are disturbance Items 3. 4 and 5 noted above.

The effect of Railbelt disturbance Item 3 (loss of Eklutna-Teeland 115 kV line) was

discussed in the preceding paragraph. As noted, this disturbance assumed breaker Configuration A (115 kV breakers located at the O'Neill Substation). As discussed and as can be observed from the above diagram, this configuration exposes the intertie to continuity failures for any fault occurring on the MEA 115 kV system between O'Neill, Teeland and Eklutna. This exposure consists of 55 miles of 115 kV line with seven tap load substations. Configuration A increases the effective Glennallen-Sutton Intertie exposure by about 41 percent (relative to the intertie's 134 mile length) to 189 line miles.

To reduce exposure of the Glennallen-Sutton Intertie to disturbances and to preserve its continuity, breaker Configuration B is proposed. It allows for faults along the Eklutna-Teeland 115 kV line to be isolated at the O'Neill Tap Substation without opening the intertie. Since the MEA 115 kV transmission loop can provide two-way feed (i.e., from either Teeland or Eklutna), breaker Configuration B maximizes the benefit of this two-way feed capability. Under Configuration B, the intertie exposure is only 12 percent more (relative to the intertie's 134 mile length) or 150 line miles with only one tap load substation. This arrangement also benefits the MEA system since it reduces the exposure of MEA's load to disturbances between Eklutna and Teeland.

In addition to the increased, effective intertie exposure created the Configuration A, it has a further disadvantage (to the CVEA system) in that disturbances on the MEA 115 kV system will leave MEA's O'Neill load 'hanging' on CVEA. Under conditions where imports into CVEA are low or when sufficient diesel generation is on-line in the CVEA system, the CVEA system can handle the MEA load acceptance created under this breaker configuration. However, under heavy import situations or where the CVEA system is operating with a predominantly hydro dispatch, the MEA load acceptance can not be tolerated and it will worsen the effect of the intertie loss on the CVEA system.

Breaker Configuration B, however, has one disadvantage compared to Configuration A in that the intertie is exposed to faults at the O'Neill Substation and associated facilities. Depending on the planned location of the 138/115 kV substation installed with the intertie, this exposure may at most consist only of 1-2 miles of 115 kV line and the transformer at the O'Neill Substation. However, such exposure is small compared to the total line and tap load substation exposure to the intertie created under breaker Configuration A.

Load Shedding in the CVEA System

The CVEA system presently does not utilize underfrequency load shedding. Severe low frequency problems are responded to by tripping all generation on the CVEA system and allowing all load on the system to 'go black'.

As shown in many of the dynamic simulations, loss of the proposed Glennallen-Sutton Intertie or outages on the CVEA 138 kV system can result in collapse of all or a portion of the CVEA system. The potential for collapse of the CVEA system

increases as the power imports become larger and as the amount of on-line diesel generation in the CVEA system is reduced. As noted earlier, with the intertie both situations are likely to exist as they form the economic basis for consideration of the Glennallen-Sutton Intertie.

Low frequency situations periodically effect the Railbelt system and are the result of generation losses. The Railbelt utilities presently respond to underfrequency situations through underfrequency load shedding. The Railbelt utilities share in the response to underfrequency situations by shedding load in proportion to their total system load. Under interconnected system operation, the CVEA system will also be subject to low frequency conditions originating in the Railbelt system. CVEA will likely be required as part of this interconnection to also share in load shedding response to underfrequency situations.

Thus, underfrequency load shedding will be needed in the CVEA system as part of the interconnection. Underfrequency load shedding can also benefit the CVEA system. It will allow CVEA to preserve service to critical loads (e.g., hospitals, emergency facilities, communications facilities, airports, etc.) when all or a portion of the CVEA system is islanded with limited generation resources.

The application of underfrequency load shedding relays was tested for significant islanding disturbances (i.e., faults on the 138 kV lines which cause large generation and load imbalances) on the CVEA system. Under high imports where there are few units on-line, and frequency will drop rapidly. Thus, underfrequency load shedding points were selected which were spaced at 1 Hz intervals to allow sufficient opportunity for governor response and to prevent overshedding. Three frequency points were chosen for the underfrequency load shedding simulations: 59.0 Hz, 58.0 Hz, and 57.0 Hz.

Simulations were run for four islanding disturbances with underfrequency load shedding. For each disturbance, different levels of CVEA import were considered. The CVEA generation dispatches considered were those which might likely exist under an interconnected system condition (i.e., limited diesel generation). The disturbances and import/generation dispatch scenarios simulated are summarized as follows:

- 1) Fault and trip of Glennallen-Sutton Intertie
 - 5 MW CVEA Import
 - 10 MW CVEA Import
- 2) Fault and trip of PS11-PS12 138 kV line
 - 5 MW CVEA Import
 - 10 MW CVEA Import
- 3) Fault and trip of PS12-Meals 138 kV line
 - 5 MW CVEA Import
 - 10 MW CVEA Import
- 4) Fault and trip of Eklutna-Teeland 115 kV line, Configuration A
 - 0 MW CVEA Import, Predominately Hydro Dispatch

The location and amount of load shedding occurring in each stage was estimated based on the expected generation/load imbalance for the various failure modes and generation dispatch conditions. Thus, only one load shedding schedule was simulated for these disturbances. The plots from these simulations are given in Appendix JJ.

The worst case scenario (as was be expected) is for the import of 10 MW with very little internal CVEA generation. The worst disturbance is the loss of the Glennallen-Sutton Intertie which islands the entire CVEA system. Based on the results of these simulations, a load shedding schedule was developed which can prevent total collapse of the islanded portion of the CVEA system for the 5 MW and 10 MW import cases. However, as observed for disturbance Item 4 above, the load shedding scheme which provided adequate response for the other disturbances over-shed for the small MEA load acceptance placed on the CVEA system as a result of this disturbance.

Thus, much additional investigation will be required to develop a load shedding scheme which will provide the proper response under a broad range of islanding and generation/load imbalance conditions. Moreover, investigation into load shedding requirements when operating as part of the interconnected Railbelt system will be required. The intent of this investigation was not to select or design an underfrequency load shedding scheme for the CVEA system, but merely to demonstrate possible load shedding options and system response when operating as an interconnected system.

SUPPLEMENT TO THE ELECTRICAL ANALYSIS OF THE COPPER VALLEY TRANSMISSION INTERTIE

INTRODUCTION

This report is a supplement to the main report on the **Electrical Analysis of the Copper Valley Transmission Intertie**. The main report presents the results of the electrical analysis of the proposed Copper Valley Transmission Intertie with the Copper Valley and Railbelt electrical systems operating under present day system load and generation dispatch conditions (initial study). This supplemental study extends the analysis performed in the initial study by considering operation of the proposed intertie facilities under future system load scenarios where transfers into the Copper Valley system are maximized. This analysis is part of the Phase I effort. This analysis was performed and documented by Power Technologies, Inc. (PTI) as sub-consultant to R. W. Beck and Associates.

The proposed intertie facilities and study data base were described in the initial study report and form the basis on which this supplemental study is conducted. The analysis performed on the proposed Glennallen-Sutton Intertie and summarized in this report consists only of steady-state power flow analysis. This analysis provides a preliminary indication as to the capability of the proposed interconnection facilities under future system load scenarios.

SUMMARY

The results of the steady-state power flow analysis show that the interconnection between the CVEA and Railbelt systems, consisting only of the presently proposed facilities, can provide only modest power transfer capability (about 23 MW) into the CVEA system under system intact conditions. The results demonstrate that the maximum single-contingency, power transfer capability is only slightly above the 10 MW transfer level considered in the initial study. The maximum transfer capability is limited primarily by outage conditions and facility limitations in the Railbelt system.

Based on a future loading scenario where both the CVEA and MEA system loads are increased by the same percentage above present winter peak load levels, the transfer limits of the intertie are shown in the following table. These transfer limits are based on either voltage or line loading limitations for the system condition noted. As discussed later, these limits are also based on minimum generation within the CVEA system (only one Solomon Gulch unit on-line).

Intertie Transfer Limits For Future Load Conditions Based On CVEA And MEA Loads Both Scaled

System Condition	Transfer Limit	Limiting Factor
System Intact	23.7 MW	Voltage on MEA system
115 kV Breaker Open at Teeland	14.9 MW	Voltage on MEA system
Pt. Mackenzie-Teeland 230 kV Out	13.7 MW	Line loading on MEA system

The above transfer limits are achievable only by switching off all or nearly all of the line connected shunt reactors (including the 10 Mvar reactor recommended for the intertie) in the CVEA system. This allows the surplus line charging produced in the CVEA system to support voltages on the MEA system. These transfer levels result in var flows from the CVEA to the MEA system of between 12.5 Mvar and 15 Mvar.

Based on a future loading scenario where only the CVEA system load is increased (i.e., no load growth in the MEA system) above present winter peak load levels, the transfer limit of the intertie is shown in the following table. The transfer limit was determined only for a system intact condition. This limit is also based on minimum generation within the CVEA system (only one Solomon Gulch unit on-line).

Intertie Transfer Limits For Future Load Conditions Based On Only The CVEA Being Scaled

System Condition	Transfer Limit	Limiting Factor
System Intact	27.0 MW	Voltage on CVEA system

The above transfer limit is achievable only by switching off all of the line connected shunt reactors (including the 10 Mvar reactor recommended for the intertie) in the CVEA system. This limit is based on the steady-state voltage stability limit being reached at the southern end of the CVEA system. Comparison of this transfer limit with the system intact transfer limit noted in the first table demonstrates the impact of MEA load growth on the intertie transfer capability.

Regardless of the load growth scenario assumed (i.e., CVEA growth only or combined CVEA and MEA growth), system voltage limitations are the dominant factor which limit the transfer capability of the intertie. Further, switching off the majority of the shunt compensation in the CVEA system is necessary to reach the levels shown. Based on the large difference between the system intact and contingency transfer levels shown in the first table, operation at the system intact level would not be possible without the risk of voltage collapse following a single contingency. As noted, the system intact transfer level shown in the second table is based on reaching the

steady-state voltage stability limit of the southern CVEA system. At this transfer level, small load changes result in drastic voltage changes. Thus, operation at or near this point would not be possible without the risk of system voltage collapse.

Operation at or above the single contingency transfer limits noted would require additional facilities to provide dynamic voltage control (such as static var compensators - SVC) since small load changes result in large voltage changes under the conditions simulated. Depending on the transfer level to which the intertie would be operated, the pattern of future load growth, and minimum generation configurations to be used, one or more SVC would be required. Distributed, modest-sized, switched shunt capacitor additions would also be required on the MEA system in order to support the higher transfers and eliminate the voltage limitations which have been identified. These would be needed in conjunction with SVCs.

The requirement for an SVC becomes a significant consideration for the CVEA system if it is operated with the majority of shunt reactors switched off. Dynamic voltage control will likely be required under such cases to control over voltages following loss of load or other load rejection situations. However, consideration and use of an SVC at Pump Station 11 as part of the interconnection facility would replace the need for the 10 Mvar shunt reactor recommended in the initial study. Further, an SVC would also eliminate the need to provide switching facilities for the existing 138 kV, 5 Mvar line reactor at Pump Station 11 in order to accommodate higher power transfers.

The contingency transfer limitation shown in the first table and based on line loading limitations in the MEA system (i.e., for the Pt. Mackenzie-Teeland 230 kV outage) would not be affected significantly by the addition of SVCs and capacitors. This limitation occurs largely as a result of through-power flows associated with Anchorage to Fairbanks power transfers and higher MEA system loads. Correction of this problem would necessitate either the reconductoring of a significant portion of the 115 kV lines in the MEA system (particularly those between Anchorage and the O'Neill Tap), or the construction of a higher voltage (i.e., 230 kV) transmission system overlay between Teeland and Anchorage.

DISCUSSION

Data Base & Simulation Conditions

The power flow data base developed for the initial system analysis and reported in the main report was also utilized for this supplemental study. To better define permissible system low voltage operating limits and existing line loading capabilities, additional information was solicited from both CVEA and MEA.

Based on information gathered from MEA, the following items summarize the new operating guidelines applicable for and used in this study:

• Under system intact conditions, voltages on the MEA 115 kV system should remain at or above 95%.

- Under single contingency conditions, voltages on the MEA 115 kV system should remain at or above 90%.
- The majority of the Plant 2 to Briggs Tap 115 kV line is 954 KCM ACSR conductor and a very minor portion is 397.5 KCM ACSR. The thermal line limit should be based on the larger conductor (i.e., 200 MVA limit).
- The remainder of MEA's 115 kV lines have 397.5 KCM ACSR conductor, and the winter thermal limit on these lines is 120 MVA.

Based on information gathered from CVEA, the following items summarize the new operating guidelines applicable for and used in this study:

- Under all system conditions, voltages on the CVEA 138 kV system should remain at or above 95%.
- The CVEA system would always operate with at least one Solomon Gulch hydro unit on-line for area protection and var support.

For this supplemental study, the base load condition for the CVEA and MEA systems was assumed to be the winter peak load used in the initial study and shown in the following table:

Base Winter Peak System Loads		
CVEA	MEA	
12.2 MW + j 4.6 Mvar	82.5 MW + j 24.1 Mvar	

The winter peak base load condition shown above is indicative of the maximum, nearterm loading conditions on the two systems. The MEA load shown above represents only that portion of load served from the 115 kV line between the Plant 2 and Teeland substations. In simulating MEA load growth for this study, this is the only portion of the MEA load which was scaled. This is the only portion of the MEA load which significantly effects the voltages and loadings on the 115 kV facilities serving the proposed intertie. The scaling of CVEA and MEA loads in this study is based on maintaining a constant load power factor (i.e., vars increased proportional to watts).

For the future winter peak load conditions evaluated, only a single CVEA generation dispatch is considered. This dispatch assumes only Solomon Gulch Unit 1 on-line at 2 MW power output. The unit's var output is determined by system voltage regulation requirements. The Railbelt system base generation dispatch is identical to the winter peak dispatch utilized in the initial study. However, this dispatch is modified to accommodate increased CVEA and MEA loads considered in this study by adjusting generation at the Beluga power plant.

Steady-State Power Flow Simulations

Several power flow simulations were performed to determine the maximum power transfer capability of the proposed intertie facilities under future system loading conditions. The transfer capability was determined by analyzing system voltage levels and line loading levels based on the guidelines noted above. The analysis consisted of evaluating the system initially operating in a normal, intact condition and then under two different single contingency situations. The contingencies selected were the two worst contingency conditions identified in the initial study. The contingencies simulated are:

- The MEA 115 kV system open-ended at Teeland
- The Pt. Mackenzie-Teeland 230 kV line out of service.

The results are shown in the one-line power flow diagrams attached at the end of this supplemental report and are referenced in the following discussion by figure number.

For all simulations, the line connected shunt reactors on the CVEA system, including the 10 Mvar line-connected shunt reactor recommended in the initial study for the intertie, were switched off as necessary to offset the low system voltages created by the higher loadings and contingency situations.

The initial simulations considering future system loadings utilized the assumption that load growth would occur on an equal percentage basis on both the CVEA and MEA systems. Figures 1A and 1B represent the MEA and CVEA system under an intact condition with the loads scaled about 97% above the near-term winter peak levels. This corresponds to a CVEA load of 24 MW and an MEA load (Anchorage-Teeland portion only) of 162.6 MW. The intertie transfer limit (Sutton-Pump Station 11 line flow) for this condition is identified as 23.7 MW. This limit is based on the low voltage limit of 95% being reached at Lucas on the MEA system. This limit is based on all shunt reactors on the CVEA system being switched off.

Figures 2A and 2B represent the MEA system under a single contingency condition where the Teeland-Cottle 115 kV line section is open at Teeland. For this case, the CVEA and MEA loads are scaled about 33% above the near-term winter peak levels. This corresponds to a CVEA load of 16.2 MW and an MEA load of 109.4 MW. The intertie transfer limit for this conditions is identified as 14.9 MW. This limit is based on the low voltage limit of 90% being reached at Cottle on the MEA system. This limit is based on all shunt reactors on the CVEA system, except the 3 Mvar reactor at Pump Station 12, being switched off.

Figures 3A and 3B represent the Railbelt system under a single contingency condition where the Pt. Mackenzie-Teeland 230 kV line is out of service. For this case, the CVEA and MEA loads are scaled about 24% above the near-term winter peak levels. This corresponds to a CVEA load of 15.1 MW and an MEA load of 102.3 MW. The intertie transfer limit for this conditions is identified as 13.7 MW. This limit is based on the Eklutna-Dow 115 kV line section on the MEA system reaching its thermal

limit of 120 MVA. For this case, all shunt reactors on the CVEA system, except the 3 Mvar reactor at Pump Station 12, are switched off.

An alternate future system loading scenario is shown in Figures 4A and 4B. This case utilized the assumption that load growth would occur only on the CVEA system. This case represents the MEA and CVEA system under an intact condition. The load on the CVEA system is scaled to about 219% above the near-term winter peak level. This corresponds to a CVEA load of 26.8 MW. The intertie transfer limit for this condition is identified as 27 MW. This limit is based on the low voltage limit of 95% being reached at the 138 kV bus in the Meals Substation on the CVEA system. This limit is based on all shunt reactors on the CVEA system being switched off. This voltage limit is at the steady-state voltage stability limit for the southern CVEA system. Simulations run with a 1% higher CVEA load (not documented in this report) resulted in voltages at the Meals 138 kV bus of about 70%. Power flow model solution convergence failure occurred if loads were scaled any higher.

