

## Bill Van Camp

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**From:** Chris Graff <chris.graff@siouxvalleyenergy.com>  
**Sent:** Thursday, January 16, 2025 10:11 AM  
**To:** Haas, Andy  
**Cc:** Jonathan T. Aus  
**Subject:** RE: Sioux Valley/Corson Follow Up Meeting

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

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Good morning Andy,

Thanks for the call yesterday and as you requested below are what I have from notes on the call from Monday. If you are looking for additional information please let me know and I would be happy to send it over or track it down.

**Attendance:**

Knife River – Andy Haas, Pete Richardson, Clark Meyer  
Sioux Valley Energy – Chris Graff, Jason Sage  
East River Electric Cooperative – Jon Aus, John Knofczynski

**Discussion:**

- East River discussed preliminary results from transmission level study. Best option moving forward would be to construct a new transmission line and distribution substation on site to serve the load.
  - Distribution Substation site would require 5-7 acres of land
- Feeding out of the existing Corson substation at full projected phase 2 load would be difficult without significant improvements and the space available at the Corson substation for those improvements would be constricting and possibly not feasible.
- East River is evaluating options for line routes and possible site locations based on their existing transmission network and will provide those recommendations with the cost estimates.
- Timeline for a distribution substation and transmission line would likely push beyond the 2026 startup date for Knife River so we discussed potential options.
  - Sioux Valley feels that the Phase I load estimate can be served with utilizing some existing facilities at the Sand Plant as well as one new feeder from the Corson substation. This is not a permanent solution as it will push facilities at the Corson substation beyond normal base ratings and will affect capacity and reliability of the Sioux Valley distribution system, but to meet the project timelines this would be a potential solution for a period of time until the new substation can be put into service.
  - This would also provide a backup feed to the Knife River facilities long term that would have the capacity available to back up a large portion of the load in the event the new substation is out of service.
- East River will work to provide recommendations on transmission line route and potential substation site.
  - This will include preliminary CIAC numbers (Contribution In Aid to Construction)

- Sioux Valley will also include all necessary distribution costs once East River can provide a location for the substation facility, so we are able to determine distribution feeder distances.
- We will provide those numbers sometime the Week of January 20<sup>th</sup> to Knife River.

## Bill Van Camp

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**From:** Chris Graff <chris.graff@siouxvalleyenergy.com>  
**Sent:** Thursday, January 30, 2025 8:28 AM  
**To:** Haas, Andy  
**Cc:** Jonathan T. Aus; Ted Smith  
**Subject:** RE: Sioux Valley/Corson Follow Up Meeting  
**Attachments:** Knife River Load Addition Slides.pptx

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Good morning Andy,

Attached is some information on the proposed solution to serve the expansion for Knife River up at the Corson facility. The first non-title slide is a proposed sub location and transmission route. I believe that is the site location we discuss in the last meeting or relatively close. The last slide is a table breakdown of the costs and what would be Knife River's responsibility under the last column marked as "load". For the Sioux Valley costs it is broken down between the initial load addition and the future expansion. We would look to receive payment on the costs under the initial load addition when we proceed forward with this project, but the future load addition costs could be incurred closer to when you request those facilities for the expansion in the next couple of years. Please review and don't hesitate to give me a call with any questions and we can discuss it.

Thanks,  
**Chris Graff, P.E.**  
Director of Operations



**Office:** 800-234-1960  
**Mobile:** 605-940-3079  
**Direct:** 605-582-3171  
**Email:** [chris.graff@siouxvalleyenergy.com](mailto:chris.graff@siouxvalleyenergy.com)

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**From:** Haas, Andy <andy.haas@kniferiver.com>  
**Sent:** Tuesday, January 28, 2025 8:07 AM  
**To:** Chris Graff <chris.graff@siouxvalleyenergy.com>  
**Subject:** RE: Sioux Valley/Corson Follow Up Meeting

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Chris,

Do you have an update on the power supply for Corson?

**Andy Haas**  
Aggregate & Asphalt General Manager

**Knife River**  
1500 North Sweetman Place  
Sioux Falls, SD 57118  
office 605-336-5784  
mobile 605-660-8452



---

**From:** Chris Graff <[chris.graff@siouxvalleyenergy.com](mailto:chris.graff@siouxvalleyenergy.com)>  
**Sent:** Thursday, January 16, 2025 10:11 AM  
**To:** Haas, Andy <[andy.haas@kniferiver.com](mailto:andy.haas@kniferiver.com)>  
**Cc:** Jonathan T. Aus <[jaus@eastriver.coop](mailto:jaus@eastriver.coop)>  
**Subject:** RE: Sioux Valley/Corson Follow Up Meeting

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**Attendance:**

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- but to meet the project timelines this would be a potential solution for a period of time until the new substation can be put into service.
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  - We will provide those numbers sometime the Week of January 20<sup>th</sup> to Knife River.

# **New Corson Area Substation - Knife River Gravel and Quartz Quarry Load Addition**



# East River COST/CIAC ESTIMATES

[Protected Data Begins]

Project	Description	Estimate	SPP	System	Load
<b>Knife River New Substation Option</b>					
115 kV Transmission Line	1.25 miles of 115 kV Transmission Line				
115/12.47 kV Substation	New Distribution Sub, 115 kV Ring Bus, 10 MVA Base Transformer				
	<b>Total</b>				

SVE COSTS NOT INCLUDED IN THIS TABLE

# Sioux Valley COST/CIAC ESTIMATES

Project	Description	Estimate	SPP	System	Load
<b>Knife River New Substation Option</b>					
Initial Load Addition	2 Distribution circuits, cable, equipment, transformers, and switches to feed 8,105.5 HP				
Future Load Addition	1 Distribution circuit, cable, equipment, transformers, and switches to feed 2,861.5 HP				
	<b>Total</b>				

[Protected Data Ends]

**Bill Van Camp**

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**From:** Chris Graff <chris.graff@siouxvalleyenergy.com>  
**Sent:** Thursday, May 29, 2025 8:18 AM  
**To:** Haas, Andy  
**Subject:** RE: Corson Plant Expansion Billing Estimate

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Andy,

The other thing I forgot to mention is the demand charge in your estimate is the demand coincident with East River's peak, so if your demand is lower at that time your demand charge would be less. The standard large power rate the sand plant is on, the demand charge is based on your plant peak. So for example if your highest demand at the new plant is 11MW but during the coincident peak time with East River you are only running at 8MW, you would only pay the [Protected Data Begins] [REDACTED] [Protected Data Ends] demand charge on the 8MW. Where as if this were on our large power rate you would pay the [Protected Data Begins] [REDACTED] [Protected Data Ends] on the full 11 MW. Does that make sense?

Thanks,  
Chris

**From:** Haas, Andy <andy.haas@kniferiver.com>  
**Sent:** Thursday, May 29, 2025 8:00 AM  
**To:** Chris Graff <chris.graff@siouxvalleyenergy.com>  
**Subject:** RE: Corson Plant Expansion Billing Estimate

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Chris,

Thanks for the information, that helps clarify a few questions on our end.

Andy

**From:** Chris Graff <chris.graff@siouxvalleyenergy.com>  
**Sent:** Thursday, May 29, 2025 7:45 AM

To: Haas, Andy <andy.haas@kniferiver.com>  
Subject: RE: Corson Plant Expansion Billing Estimate

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Andy,

The [Protected Data Begins] [REDACTED] [Protected Data Ends] at this point is an estimate as we would need to know what your intention is with the aid amount before we could finalize that rate with East River. If you wanted to put some of that aid into the rate versus paying it all up front we would need to account for that in the rate.

A couple things to note though vs the current rate you are on with the sand plant. [Protected Data Begins] [REDACTED]  
[REDACTED]  
[REDACTED] [Protected Data Ends] The other component of the large power rate is the energy charge which for the large power is [Protected Data Begins] [REDACTED]. [Protected Data Ends] The estimate below uses a slightly lower [Protected Data Begins] [REDACTED] [Protected Data Ends] energy charge so there is a reduction in the energy charge from this estimate. Also, these are just estimated values for energy and demand and if you want to get into further discussion about pinpointing a definite rate value let me know and we can discuss what this could look like differently.

Thanks,  
Chris Graff, P.E.  
Director of Operations



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[chris.graff@siouxvalleyenergy.com](mailto:chris.graff@siouxvalleyenergy.com)

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PUBLIC DOCUMENT  
NOT PUBLIC DATA HAS BEEN REDACTED

**From:** Haas, Andy <andy.haas@kniferiver.com>  
**Sent:** Thursday, May 29, 2025 7:25 AM  
**To:** Chris Graff <chris.graff@siouxvalleyenergy.com>  
**Subject:** RE: Corson Plant Expansion Billing Estimate

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Good morning, Chris

Still working on a cost analysis for the electric service for the new quarry and wanted to get clarification on the demand charge.

On the estimate below it shows the demand charge to be [Protected Data Begins] [REDACTED] [Protected Data Ends] and our current sand plant is only being billed at [Protected Data Begins] [REDACTED] [Protected Data Ends], is there a reason for the increase in cost per KW?

Thanks

Andy

**From:** Chris Graff <chris.graff@siouxvalleyenergy.com>  
**Sent:** Tuesday, March 18, 2025 9:22 AM  
**To:** Haas, Andy <andy.haas@kniferiver.com>  
**Subject:** Corson Plant Expansion Billing Estimate

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Good morning Andy,

I have compiled an estimate for your monthly electric service as you have requested based on information from you. A couple of things to note:

- This is assuming Knife River would be paying 100% of the CIAC up front that was previously identified and sent over to you. [Protected Data Begins] [REDACTED] [Protected Data Ends]
- This is a rough estimate of what the rates would be. If you want more firm numbers on the rates, we would need to get a confirmation from you on what Knife Rivers plans for the CIAC and then work through those rates with East River to confirm.
- These numbers are based on your estimated 70% load factor and the plant running at 97% power factor during production months (10 months out of the year)
- The load in the 2 off months is estimated at 10% of the peak load. We discussed 5-10% will be expected so I assumed 10% to be on the upper end.

[Protected Data Begins]

**During Production Months (10 Months/Year)**

Peak Load (kVA) - Estimate from Knife River		
Peak Load (kW) - Assuming 97% Power Factor		
Average kVA/Month based on 70% LF (70% LF estimated by Knife River)		
Average kW/Month based on 70% LF (70% LF estimated by Knife River)		
Estimated Energy Use (kWh) (30.5 days/month)		
Basic Service Charge	\$	
Demand Charge	\$	
Energy Charge	\$	
Estimated Average Bill in Production Months	\$	
Average All in Rate \$/kWh (Total \$/Total kWh)	\$	

[Protected Data Ends]

[Protected Data Begins]

**During Maintenance Months (2 Months/Year)**

Peak Load (kVA) - Estimate from Knife River		
Peak Load (kW) - Assuming 97% Power Factor		
Average kVA/Month based on 70% LF (70% LF estimated by Knife River)		
Average kW/Month based on 70% LF (70% LF estimated by Knife River)		
Estimated Energy Use (kWh) (30.5 days/month)		
Basic Service Charge	\$	
Demand Charge	\$	
Energy Charge	\$	
Estimated Average Bill in Maintenance Months	\$	
Average All in Rate \$/kWh (Total \$/Total kWh)	\$	

[Protected Data Ends]

If you have any questions at all or want to discuss these numbers, please let me know.

Thanks,

**Chris Graff, P.E.**  
 Director of Operations



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 Direct: 605-582-3171  
 Email: [chris.graff@siouxvalleyenergy.com](mailto:chris.graff@siouxvalleyenergy.com)

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