

**Northern States Power Company, doing business as Xcel Energy  
Information Request**

Docket No.: EL25-032  
South Dakota Knife River  
Requestor: Xcel Energy  
Requested From: Sioux Valley Energy  
Analyst: Steve Kolbeck  
Date of Request: March 10, 2026 Data Request No. 1-2  
Response Due: March 24, 2026

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Question:

Ted Smith states in his rebuttal testimony that Knife River will need to install “approximately nine on-site three phase pad mount distribution transformers.” Provide all facts that support, were relied upon, or assumed for this testimony.

Response:

Knife River provided Sioux Valley Energy with a table listing desired service locations and expected load at each service. The full table is shown in Response 1-1, but a zoomed in version of the table is shown below for ease in reading service sizes and location information. Knife River identified seven different service points in that table with two of the service points requiring two different service voltages at those points which would require a total of nine distribution transformers to step down to the service voltages of either 277/480V or 4,160V. The service point locations were determined based on the site layout CAD file provided to Sioux Valley Energy by Knife River at the time the load information in the table was supplied.

Nameplate	HP	FLA	Calc KVA	Load Factor	Adjusted KVA	Service Description
EH101 480V	1175	1769	1,468.98	70.00%	1,028.28	Service Point-1, 480/277, 3PH, 4W
EH101 4160V	1000	133	957.17	70.00%	670.02	Service Point-1, 4160V, 3PH, 4W
EH102 480V	500	710	589.58	70.00%	412.71	Service Point-2, 480/277, 3PH, 4W
EH201 480V	810	1086	901.81	70.00%	631.27	Service Point-3, 480/277, 3PH, 4W
EH202 480V	1192	1668	1,385.11	70.00%	969.58	Service Point-4, 480/277, 3PH, 4W
EH203 480V	656	1329	1,103.60	70.00%	772.52	Service Point-5, 480/277, 3PH, 4W
EH203 4160V	2040	271.5	1,953.93	70.00%	1,367.75	Service Point-5, 4160V, 3PH, 4W
EH204 480V	2774	3671	3,048.40	70.00%	2,133.88	Service Point-6, 480/277, 3PH, 4W
EHPOND	400	600	498.24	70.00%	348.77	Service Point-7, 480/277, 3PH, 4W
SUB-TOTAL	10547	11237.5	11,906.83		8,334.78	
<b>Totals:</b>	<b>10,547.00</b>	<b>11,237.50</b>	<b>11,906.83</b>		<b>8,334.78</b>	
<b>TOTAL SITE, Amended KVA</b>					<b>8,334.78</b>	
MVA					<b>8.33</b>	

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Preparer: Ted Smith  
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 Date: March 24, 2026