Received
State of Nebraska
Power Review Board
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By: State Fine Director

NEBRASKA POWER REVIEW BOARD

IN THE MATTER OF THE APPLICATION OF) Amended Application for authority to construct microwave facilities
Nebraska Public Power District) or extensions of existing
PO E	Box 499) facilities.
Columbus, NE 68602-0499		Application No. PRB $f 4063$ - $f N$
Colur autho	mbus, Nebraska, and hereby applie	strict (NPPD) whose principal place of business is es to the Nebraska Power Review Board for an order or extensions of existing facilities in Holt County,
(1)	Purpose of proposed construction and	d description of related facilities:
NPPI data, office	O's electric system. This construction so 2-way radio, and voice communications	vide communications for the operation and control of shall provide supervisory control, protective relaying, is for the operation of NPPD facilities to NPPD's O'Neill nicrowave equipment required at the WAPA Orchard
(2)	Description of proposed microwave fac-	cilities:
a.	Microwave path miles	18.4
b.	Number of microwave sections	One
c.	Frequency band	11 Ghz
d.	Initial channel loading	1. Four high security, high reliability (99.999%),
		high speed (low latency) point-to-point, mirrored bit
		relaying circuits (backup).
		2. Five RTU SCADA circuits.
		3. One low substation operational network
		backhaul connection. One statewide 2-way radio
		system tower network connection.
		4. One NPPD Office WAN connection / Network
		connections for microwave radios, DC power, and
		other telecommunications equipment.
e.	Five-year projected channel loading	Two new expanded NPPD Networks, relaying
		circuits, and RTU SCADA circuits are expected in
		five years.

- (3) Attached hereto and herewith made a part of this application and designated as Exhibit "A" is a map showing the location and/or route of the proposed microwave system and related facilities, and any other information deemed necessary or useful in the consideration of this application.
- (4) Construction of the proposed microwave system or extension thereof, and/or related facilities is currently estimated to start on or about <u>Fall 2025</u>, and to be completed on or about Winter 2025/2026.
- (5) The estimated cost of construction and five years of service by NPPD is \$95,715.14. Cost of construction and ten years of service is \$101,715.14.
- (6) The known owners of the communication facilities and any other persons or organizations whom the applicant believes to be interested in the application are:

Northeast Nebraska Telephone Company (NNTC) — NNTC provided two options and quotes. Each of the options has the same endpoints but a different five-year cost of construction/providing ongoing service and different buildout distance/signal attenuation. The difference in the two NNTC proposals is based on the amount of new construction NNTC would be required to build out and the difference in monthly service costs. Option one, with a construction cost and cost of five years of service being \$126,200.00 requires less new construction, but the overall path for NPPD is at, or approaching, the 80km distance limitation at which service quality is diminished. Option two, with a construction cost and cost of five years of service being \$363,200.00, has a higher initial expense as NNTC would be required to install a longer run of new fiber optic cable. This new path is estimated to be 40km in length but has the same endpoints (O'Neill Tower and Orchard Tower). An additional internal cost to NPPD of \$6,625.52 would be added to the guotes for NPPD support during construction, thus resulting in proposed costs of \$132,825.52 (option one) and \$369,825.52 (option two). Each NNTC option has a higher combined construction cost plus five years of service expense than if NPPD were to construct the microwave facilities and own them for five years.

3 Rivers Communications - does not service this area

Cogent Communications - does not service this area

Great Plains Communications (GPC) – GPC provided a quote for a five-year cost of construction/providing ongoing service for a total of \$141,000. An additional internal cost to NPPD of \$6,625.52 would also be added to the quote for NPPD support during construction. Total five-year estimated cost of \$147,625.52, which exceeds the amount that NPPD estimates.

K&M Telephone Company – no response.

<u>Centurylink/Lumen – no response.</u>

Verizon/Frontier/Citizens – does not service this area.

Three River Telephone Company – declined to provide a proposal.

Stealth Broadband – Stealth Broadband provided a quote for a five-year cost of construction/providing ongoing service for a total of \$82,380. An additional internal cost to NPPD of \$6,625.52 would be added to the guote for NPPD support during construction. Total estimated five-year cost of \$89,005.52. However, Stealth Broadband's ten-year service cost is \$122,760, plus

NPPD internal cost for a total of \$129,385.52 compared to \$101,715.14 for NPPD. To be precise, after year six the NPPD owned system would then be the lower cost solution going forward.

<u>OPTK (formerly NebraskaLink)</u> – no response.

Nextlink – no response.

Rise Broadband/JAB Wireless, Inc. – no response.

Verizon Wireless – Cellular based connectivity is not sufficient for relaying services.

AT&T – Cellular based connectivity is not sufficient for relaying services.

<u>Viaero Wireless – Cellular based connectivity is not sufficient for relaying services.</u>

<u>T-Mobile – Cellular based connectivity is not sufficient for relaying services.</u>

- (7) Safety Standards: The design of the microwave towers and related facilities as set out in the foregoing conforms with the standards set forth for safety by the FCC and the FAA.
- (8) Remarks: The installation of this new microwave will provide the system needed to meet NPPD operational needs. This system will also serve as a backup path for critical substation relaying systems that require high speed circuits to ensure breakers protect the lines during a fault condition.
- (9) (a) Applicant is not receiving the required quality of service and will not within a reasonable time receive the required quality of service from the regulated carrier or carriers involved, or (b) the regulated carriers will not provide the required quality of service by the same or alternate methods at the same or lower cost to the Applicant, and (c) such construction is in the public interest.

Dated <u>October 24</u>, 2025.

NEBRASKA PUBLIC POWER DISTRICT
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Title: Assistant General Counsel

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