

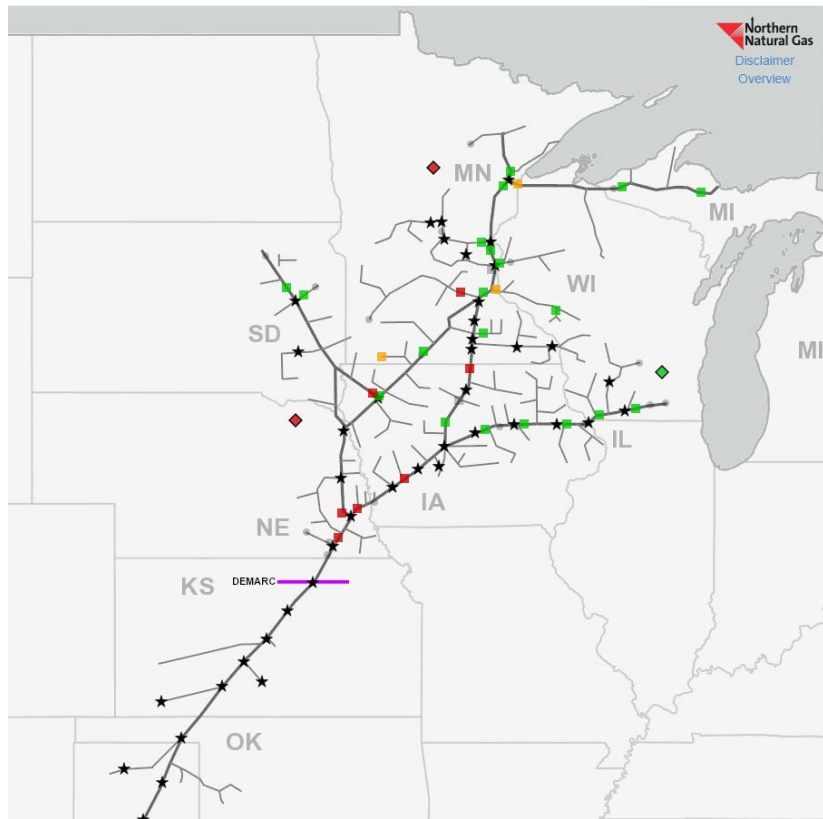
## City of Fremont Update

Date: February 12, 2021

To: City Employees/ City Boards/ Mayor & City Council

### Frigid Temperatures Prompt Northern Natural Gas to Call SOLs

Since Friday, February 5, Northern Natural Gas (NNG) has called for daily System Overrun Limitations (SOL) for most of NNG's pipeline customers. According to NNG, the lower than normal system-weighted temperatures are putting stresses on NNG's natural gas pipelines across the Midwest. The picture on the right shows the extent of NNG's pipelines extending from the gas fields in Texas to the middle of Minnesota and Wisconsin.



When NNG calls a SOL, pipeline customers must NOT use more natural gas than what they have nominated for

the day or they face severe penalties. For example, by 7 a.m. of each day, Ed Patchen (our Power Plant Statistical Technician) estimates the amount of natural gas Fremont's customers will consume for the NEXT day. This estimate is submitted to NNG, so they know how much of their pipeline capacity that Fremont will consume that day. When NNG calls a SOL, Fremont is held to our estimate or we face stiff penalties by NNG if we exceed it.

As you can imagine, cold temperatures drive natural gas usage to record levels, especially with the growth in industry and new homes we have seen in Fremont. Part of our planning process each year is to estimate the natural gas usage on peak days and compare it to Fremont's contracted share of pipeline capacity with NNG. For instance, this year, we submitted a bid in NNG's open season to purchase extra pipeline capacity. NNG awarded Fremont with 2,849 dekatherms/day of winter (November through March) capacity, starting in November 2022, for approximately \$2 million. With this extra capacity, Fremont will have up to 21,969 dekatherms/day of winter capacity through NNG as well as some extra capacity through our gas marketer British Petroleum.

Please note that what I described above represents only one-half of the requirements to serve Fremont's customers with natural gas—that is ensuring we have adequate pipeline capacity from NNG. The other half of the equation is buying the physical gas molecules to sell to customers. That too is a complicated process and something I'll plan to discuss in a future Update.

---

**There is no job so important and no service so urgent that we cannot take the time to do the work safely!**

## Street Projects Reviewed with City Council

In addition to some of the Capital Improvement Projects (CIP) I mentioned in last week's Update, Staff also reviewed the 1- & 6-Year Street Improvement Program (1 & 6 Street Plan) with the City Council at the Mayor's Retreat on January 16, 2021 as well. Several years ago, the 1 & 6 Street Plan was required to be filed with the State Department of Transportation (NDOT), but NDOT eliminated the requirement. Now, the City simply forwards a copy of the plan to NDOT for informational purposes and uses the plan as part of the City's budget for street improvements.

The projects listed under the 1<sup>st</sup> Year represent the improvement projects planned for 2021. They include:

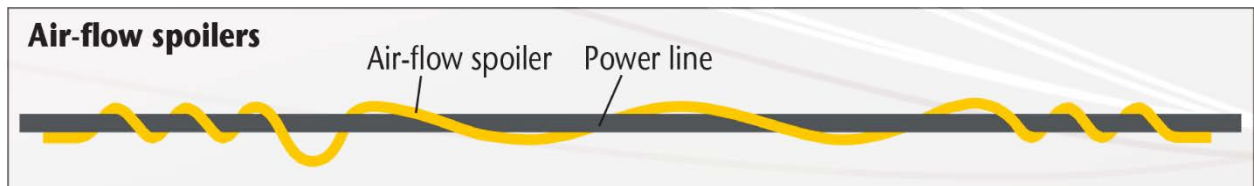
Street Improvement Projects	Estimated Cost
Luther Road South, Morningside to Samuel	\$410,000
16 <sup>th</sup> Street, Colson Avenue to Nye Street	\$140,000
Technology Park, 29 <sup>th</sup> Street and Lincoln Street	\$800,000
Bell Street Viaduct, Cuming Street to South Base	\$750,000
23 <sup>rd</sup> Street Corridor Signals (annual contribution)	\$200,000
Johnson Road South Railroad Segment	\$300,000
<b>Private Development</b>	
Howard Court	\$350,000
<b>NE Dept. of Transportation Project</b>	
Hwy 77, Southeast Beltway (total project cost)	\$60,000,000

Some of the larger street projects in the second through sixth year include:

Street Improvement Projects	Estimated Cost
23 <sup>rd</sup> /Bell/Yager Intersection	\$10,000,000
Repair Downtown Alleys	\$5,000,000
Luther Road, Military to 23 <sup>rd</sup> Street	\$2,000,000
1 <sup>st</sup> Street, Bell Street to Luther Road	\$1,600,000
Rawhide Creek Trail	\$1,500,000

## Air Flow Spoilers Installed

City crews installed several air flow spoilers on a new high-voltage electrical line built to serve Lincoln Premium Poultry. The City has installed dozens of air flow spoilers on electric lines across the City to mitigate galloping wires. Galloping wires are caused when high winds shape snow or ice on electric lines into an aerodynamic teardrop shape (shape of an airplane wing). This shape makes the wires gallop in the wind. Galloping wires can break poles and crossarms, or cause the wires to gallop as much as two to three feet or enough to



wrap the wires and cause a short circuit and a power outage. The picture above is a graphical depiction of an air flow spoiler wrapped around an overhead electric line. The spoilers are made of ultraviolet resistant plastic and are sized to fit on most electrical lines.

---

**There is no job so important and no service so urgent that we cannot take the time to do the work safely!**