

Bank of North Dakota

Location: Bismarck, North Dakota
Installing Contractor: City Air Mechanical
Equipment Supplier: SVL, Inc.



Highlights:

- GPS' NPBI were not initially specified on this project
- 98 GPS-DM48s, and 4 GPS-FC48s were installed
- IAQ has noticeably improved



Background: The Bank of North Dakota sought Indoor Air Quality (IAQ) solutions to respond to COVID-19. Prairie Engineering scrutinized several technologies and determined GPS Needle Point Bipolar Ionization to be the most effective equipment for addressing COVID-19 concerns.

Challenge: SVL had to prove that GPS's NPBI products were a better fit for the Bank of North Dakota and its goals of improved IAQ, effectiveness, ease of installation, cost, and timeline. The team provided documentation on how NPBI works and how it could fit well into the established plan. Part of that documentation included third-party tests proving NPBI's effectiveness at eliminating the growth and spread of contaminants, both airborne and on surfaces.



GPS-FC48

Solution: It was decided that GPS' NPBI was the best solution for the Bank of North Dakota's challenge. The main reasons for this choice were maintenance, installation, price, availability, and effectiveness.

The NPBI products require minimal maintenance with their autocleaning feature and have no parts to be replaced. The cost savings of the units, installation, and lifetime operational expenses far exceeded other IAQ solutions considered. GPS quickly shipped the units out and kept the project on its original timeline, even though the products were entirely different from the initial plan. 98 GPS-DM48s and 4 GPS-FC48s were installed on site.

NPBI includes some unique features. The first is a universal voltage output. This feature helps to protect a unit from power surges and keeps it in top operating condition. Second, is the programmable auto-cleaning cycle, it eliminates manual cleaning to save time and money. The absence of replacement parts required is the third notable attribute. And finally, a magnetic mounting option is possible with this line to reduce necessary hardware.

The Bank of North Dakota was the first in Bismarck to use NPBI, and it leads the pack, as there are now multiple other facilities using the technology for building occupant health and improved IAQ.



GPS-DM48

End Result: The Bank of North Dakota now has GPS NPBI units installed throughout the building, providing peace of mind to occupants and protecting against the spread of surface and airborne contaminants, including COVID-19. The facility owner said that the filters were loading up faster, and general complaints of dust and allergies have been significantly reduced. The dust in their printer room is no longer as challenging as before installing the GPS NPBI units. Finally, there have been compliments of improved air quality without prompting from building occupants. The Bank of North Dakota team was not informed of the initiative or installation of the devices throughout the building, making these comments even more pertinent.

The SVL and Prairie Engineering teams worked hard to ensure this was the best fit, and the crew at City Air Mechanical made the installation seamless. Since the successful installation of the GPS units, several other Bismarck facilities have taken the step to add them to their IAQ improvement plan.

For more information about this project or other case studies, visit svl.com.



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