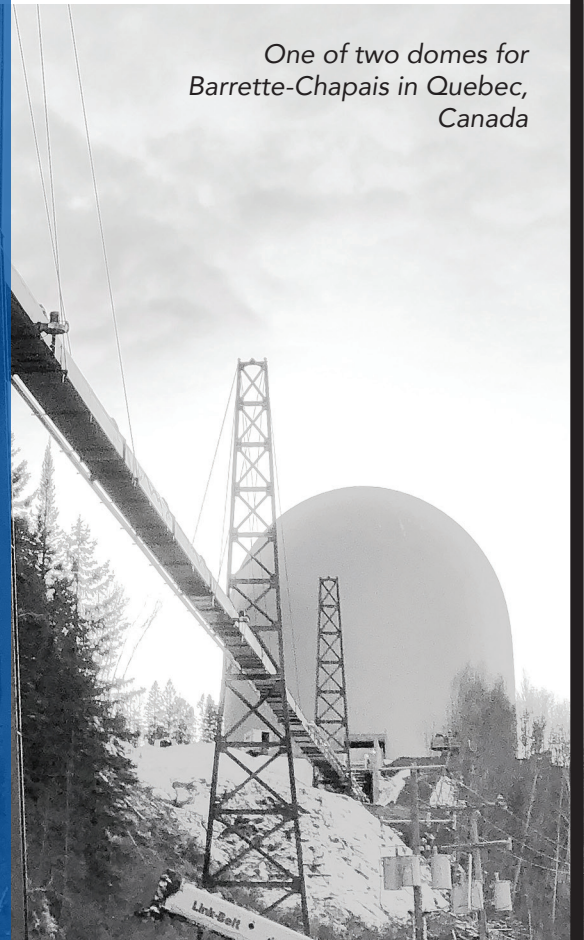




# ANNUAL REPORT 2019

*One of two domes for  
Barrette-Chapais in Quebec,  
Canada*



*Storm shelter at Tupelo  
High School in Tupelo,  
Mississippi—the largest  
storm shelter in the state*



Highlights from our diverse scope of work  
Published January 2020  
[www.dometechnology.com](http://www.dometechnology.com)



*Dome Technology's D1150 tank is growing in popularity, resulting in three projects similar to the tank pictured here in Iona, Idaho.*



# MORE WATER-TANK PROJECTS

## Holding our own in the liquid-storage marketplace

Dome Technology broke ground on a million-gallon water tank for the City of Iona in Idaho on June 5, similar to its D1150 tanks in Sugar City and Shelley, Idaho, in 2018. The Shelley project attracted the attention of Iona city leadership, and low cost secured the deal.

“(Dome Technology was) the low bid, but I will tell you we were impressed with the product that was built in Shelley. We really wanted to try to make the bidding process competitive, so we jumped through a lot of hoops to accommodate everyone that wanted to bid the project,” Iona mayor Daniel Gubler said. “We are happy with the outcome.”

The project was driven by insufficient water for fighting potential fires. The city’s original tank has a capacity of 500,000 gallons.

In addition to better fire preparedness, Gubler said the new tank will boost water pressure and volume for the entire city — an important improvement since water flow in certain areas was so poor the city was considering replacing the line. “Now that we’re con-

necting to that newer tank, we won’t have to replace that line,” he said.

According to Dome Technology project manager Daren Wheeler, the D1150 tank is growing in popularity because it can be built taller, storing more within the tank but requiring less real estate. In Shelley the city anticipated spending \$1.1 million on a new tank plus a small cushion for change orders. Selecting Dome Technology’s model shaved nearly \$400,000 from the cost, allowing the city to use those funds to upgrade an existing well, said Shelley mayor Stacy Pascoe.

Saving that kind of money is a big deal to a small town with less tax revenue. “We have a lot of older fixed-in-

come people. When I look at spending money, I base it off of needs first, and then if it was my own money, would I spend it on that,” Pascoe said. The

D1150 tank checked both boxes.

This model costs roughly \$1 million, and the tank itself has an indefinite lifespan. The City of Iona passed a bond election to fund the project, and citizens realize the potential value of the new tank, Gubler said.

“My full expectation is a generation or two from now can say Iona has great water (and)

the product they chose when they did is benefitting us today and into the future. We fully anticipate that tank will be here in 100 years,” he said.

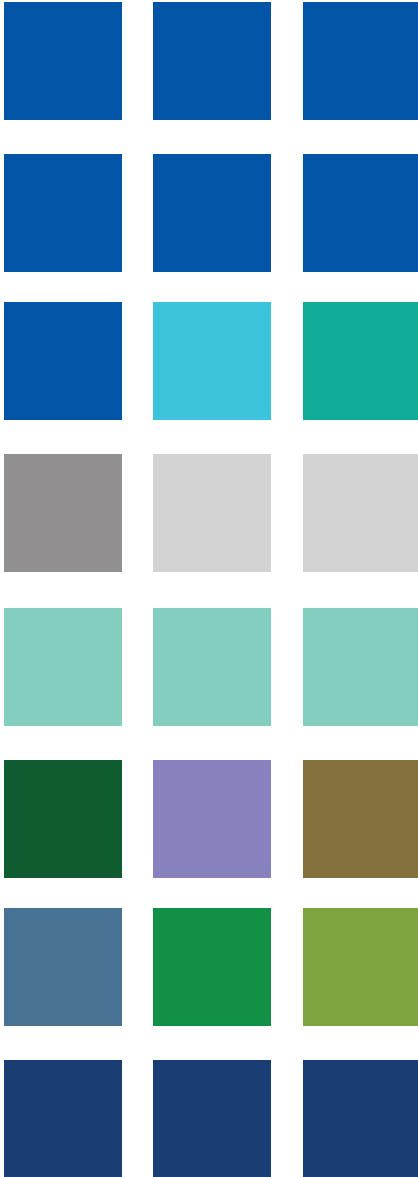
**“My full expectation is a generation or two from now can say Iona has great water (and) the product they chose when they did is benefitting us today and into the future. We fully anticipate that tank will be here in 100 years.”**

**Iona mayor  
Daniel Gubler**



## Recent projects at a glance

In 2019 Dome Technology began 24 new (and varied!) industrial projects. Here's the breakdown:



Engineering • Fire station • Gypsum • Steel erection • Cement • Site observation • Wood pellets • Water storage • Salt • Door retrofit • Dome re-cover • Volume study • Repair work/additions

# REPAIR AND COAT

*Dome Technology adds 10 years of exterior life to silos owned by agricultural-product provider Gavilon*

In Creston, Iowa, four Gavilon silos, built in 1978, were deteriorating, particularly two that had been spalling for three years, said Gavilon superintendent Britt Boozer.

Gavilon hired Dome Technology to repair and coat the existing concrete silos storing corn and soybeans, guaranteeing 10 more years of exterior life.

Another company worked on interior upgrades simultaneously, and “with extending the liners and doing what we did on the outside, (our company) felt like that was a more economical way—to repair the bins rather than tear them down and build new,” Boozer said.

The Gavilon concrete silos required light concrete-crack repair, and the Dome Technology team began the project by pressure washing and prepping the structure, then shotcreting and patching all cracks in exposed areas. Silicone sealant was applied to the entire building including the roof, where a nonslip surface was also added.

“We’re basically encasing the whole structure with this casing, so we shouldn’t see the spalling continue any longer,” Dome Technology sales manager Heath Harrison said. “The selling point is making silos truly watertight; paint and other restoration processes fail to do that long term.”

Cost savings are the biggest benefit to this kind of silo repair. According to Harrison, silos otherwise destined for teardown can be salvaged in only a few weeks.

In addition to repairing the silos, Dome Technology can apply coat-



ings in fade-resistant colors. After exterior concrete is repaired, this coating preserves and extends the concrete life. In the case of Gavilon, the charcoal-gray coating the company chose gives the silos a fresh look. “It can serve as an aesthetic solution as well, so it’s a two-for-one,” Harrison said.

Boozer agreed, stating that if people were seeing the silos for the first time, “they would go, ‘These have just been put up three, four, five years ago.’ Aesthetically they look a lot better.”



# CLIMB EVERY MOUNTAIN

*Barrette-Chapais project in Quebec tests the limits in conveyance, climate, & location*

**W**ood-pellet producer Barrette-Chapais first contacted Dome Technology about a ship-unloader project for a new transload facility in Quebec, Canada, but when the amount of available land was reduced, the company's plans for flat storage had to change.

Dome Technology was then contracted to build two DomeSilos, measuring 120 feet (36.5 meters) in diameter and 131 feet (39.9 meters) tall and each capable of storing 22,500 metric tons. Because of their geometry DomeSilos are able to store more product in a smaller footprint, stacking pellets deeper and storing them all the way to a structure's apex.

According to Dome Technology sales manager Cameron High, one of the customer's main requests was the ability for

truck drivers to pull in, weigh product, unload it, and return to the lumber mill without interruption and on repeat. "They wanted from start to finish a fully automated system," he said.

Dome Technology also acted as construction manager, supervising Canadian crews on all equipment installation—truck scale, load-out system, bucket elevator, and conveyance.

Pellets are produced at a BC lumber mill nearby. Upon arrival at the facility, they are dumped into a hopper and conveyed to a bucket elevator, which delivers them to a diverter valve directing product to either dome.

The conveyance piping on the reclaim side is the most striking element of all, reaching 357 feet to collect product underneath both domes and stretching 796 feet to ships that will deliver it to Europe.



## MILLWRIGHT WORK: MCINNIS IN THE BRONX



While Dome Technology worked on a McInnis project in Rhode Island, the customer called with an unrelated question: Could Dome Technology also act as contractor for an additional truck loadout lane at an existing terminal in the Bronx, New York?

Within 130 days of construction starting, Dome Technology completed an additional truck bay for the Bronx facility, including concrete ramps and footing for the structural steel, material-handling and mechanical equipment, piping, and structural-steel installation.

The second truck bay is being used now, and operations are running more smoothly and more efficiently. "We are doing between 60 and 70 trucks a day with no lines building up. It's helped tremendously," said terminal manager Stanley Sisson.