

**FOR IMMEDIATE RELEASE****Burns & McDonnell Enters into Agreement with BWX Technologies (BWXT) to Further the BANR Microreactor**

KANSAS CITY, Missouri — [Burns & McDonnell](#) has entered into an agreement with [BWX Technologies Inc. \(BWXT\)](#) to further the design and development of microreactors that can provide thermal and electric power. The BWXT Advanced Nuclear Reactor (BANR) is a passively safe design that can power remote facilities such as those currently being evaluated by the [Wyoming Energy Authority \(WEA\)](#) while simultaneously providing economical, secure, carbon-free sources of heat and electricity. Burns & McDonnell will assist BWXT in developing the balance of the plant (BOP) systems for the microreactor, generating the power plant layout and performing [preconstruction planning](#).

This project marks a significant step in advancing energy solutions in Wyoming while providing reliable energy to aid existing power generation. The current phase of the WEA study is exploring the feasibility of developing a nuclear market in Wyoming by using the existing supply chain for component manufacturing and assembly. This project will also further the development of a carbon-neutral baseload heat and power source that can be deployed for industrial users such as mining.

“There’s been tremendous support as we’ve explored the potential opportunities for deploying microreactors in Wyoming,” says Joseph K. Miller, president of BWXT Advanced Technologies LLC. “We look forward to taking this next step with Burns & McDonnell to advance our designs and the nuclear industry overall.”

Burns & McDonnell is leveraging its experience in the [commercial power industry](#) to support BWXT’s microreactor development activities. Burns & McDonnell’s [project scope includes developing the power cycle architecture](#) and identifying critical components such as the steam turbine generator and air-cooled condensers. Burns & McDonnell scope also includes site integration design and support for steam and power distribution infrastructure and reactor building structures.

“Through this project, Burns & McDonnell continues its commitment to advancing nuclear technology in the power industry and is excited to work with BWXT, a premier nuclear manufacturer that’s been designing, building and delivering reactors for decades,” says Scott Strawn, vice president and general manager of the Power Group at Burns & McDonnell. “This project has so many unique aspects to it, including cogeneration, which would be the first domestic nuclear application that produces both electricity and steam for industrial use.”

Burns & McDonnell and BWXT completed phase one of this project in early 2024. Phase two is set to be completed by the third quarter of 2025.

**About microreactors:** Representing the smallest category of nuclear reactors, microreactors typically produce less than 20 megawatts of electrical power. Their small size allows them to be fully assembled and tested by the manufacturer, then transported by truck to their use location. This advantage minimizes the costs and risks associated with on-site construction. Microreactors have the unique ability

to provide around-the-clock carbon-free heat and power, which allows them to play a crucial role in the future of sustainable energy for any potential user aiming to decarbonize.

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#### **About Burns & McDonnell**

Burns & McDonnell is a family of companies bringing together an unmatched team of more than 14,000 engineers, construction and craft professionals, architects, and more to design and build our critical infrastructure. With an integrated construction and design mindset, we offer full-service capabilities. Founded in 1898 and working from 75 offices globally, Burns & McDonnell is 100% employee-owned. Learn how we are [designed to build](#).