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News Release: Carbon Free Power Project Completes Field Work to Support Site Characterization for the First-of-a-Kind Small Modular Nuclear Reactor

Carbon Free Power Project, LLC (CFPP) continues to advance the development and deployment of its first- of-a-kind small modular reactor nuclear plant at the U.S. Department of Energy's Idaho National Laboratory (INL) near Idaho Falls, Idaho. CFPP, LLC, a wholly owned subsidiary of UAMPS, successfully and safely completed field investigation activities at the site in January 2022, a major milestone on the project. "This is an extraordinary accomplishment to complete this critical-path scope safely, in challenging weather conditions, and without schedule impacts," said Shawn Hughes, CFPP Project Director. Read the complete news release [HERE](#).



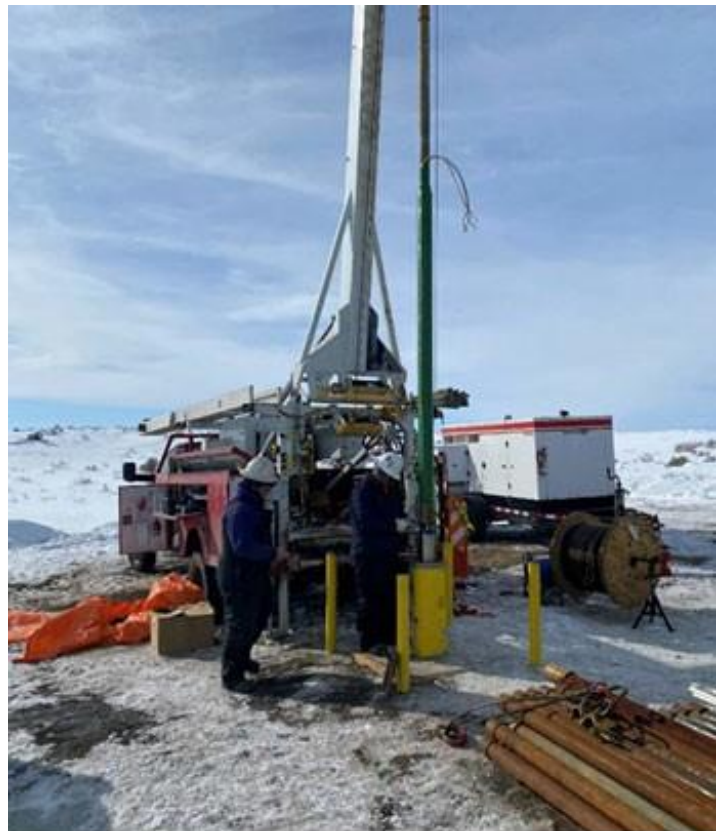
Project Director Dr. Shawn Hughes reported the following activities to the CFPP Project Management Committee on February 15:

- As CFPP LLC prepares its application for a license to build and operate the Carbon Free Power Plant, it is engaging with the U.S. Nuclear Regulatory Commission on a monthly basis, or more often if needed. Meetings are held between the CFPP Combined Licensing Application (COLA) Team and the NRC Project Management Team. A leadership discussion with Nuclear Regulatory Commission (NRC) is scheduled for late March. Three topical reports have already been submitted to the NRC and have been accepted for review. Engagement with the Idaho National Laboratory to obtain data and documents for the COLA continues in an efficient manner.



Shawn Hughes

- Standard Plant Design activities are going forward, with meetings involving CFPP LLC, Fluor, NuScale and Sargent Lundy. The Standard Design Approval Application is on track for delivery in Q4 of this year to support the COLA schedule. Main control room design documentation has been completed and operational program development is on schedule.
- Significant progress on COLA development was made in February with initial sections written on the Final Safety Analysis Report, Environmental Report, and Emergency Plan. The first batch of engineering support documents were submitted to the COLA team in February. The team completed training hosted by NuScale focused on using the software system that will be used to compile sections of the COLA and facilitate reviews. Overall, the COLA Project remains slightly ahead of schedule and under budget.
- Groundwater monitoring well activities in February include successful completion of a multi-well aquifer pumping test.
- Collection of meteorological data continues as planned. Core borings have been moved from temporary storage to the USGS located in INL Central Facilities.
- Spring activities planned for April include PS-suspension testing on four boring holes to measure compressional and shear wave velocity for seismic analysis. Seismic reflection surveys and soil resistivity testing will be conducted.



Setup For Multi-Well Aquifer Pumping Test

- A significant on-going activity is the development of contracts with NuScale as the original equipment manufacturer, with Fluor for engineering, procurement and construction, and with a potential plant operator.
- Subscription recruitment is focused on ensuring transmission solutions exist to wheel the power from the CFPP site at Idaho National Laboratory to interested utilities in Washington and Oregon. A number of promising options are being explored, including exchange opportunities. Transmission service requests have been filed. New transmission line proposals by large utility organizations, including Bonneville Power Administration, PacifiCorp and Idaho Power Company, are being monitored. Due diligence is underway between UAMPS and outside utilities interested in joining the project.
- A Term Sheet has been signed with a potential plant operator outlining agreements to be reached in the next few months to finalize the contract with the plant operator. Productive discussions continue, with review of task orders. A first draft of the maintenance and operational contract is being written. The plant operator will become a key member of the project team.

Industry Information & Developments

[Podcast: NuScale's Jose Reyes and Small Modular Reactors \(The American Society of Mechanical Engineers\).](#)

The so-called Nuclear Renaissance of the 2000s may have fizzled, but the small modular reactor concept is still going strong. Jose Reyes, co-founder and chief technology officer at NuScale Power, has been working on SMRs for almost 20 years, and his company is making progress toward building the first commercial SMR before the end of the decade. In this podcast episode, he describes the evolution of the small modular reactor concept and how it fits into an electric grid being shaped by wind and solar power.



Dr. Jose Reyes

[NuScale and Dairyland Power Cooperative Announce Collaboration to Explore the Deployment of NuScale's Advanced Small Modular Reactor Technology \(Businesswire\).](#) NuScale Power and Dairyland Power Cooperative have announced the signing of a memorandum of understanding (MOU) to evaluate the potential deployment of NuScale's advanced nuclear technology.

Headquartered in La Crosse, Wisconsin, Dairyland is a generation and transmission cooperative providing the wholesale electrical requirements for 24 distribution cooperatives and 17 municipal utilities, supplying the energy for more than a half-million people in four states (Wisconsin, Minnesota, Iowa and Illinois).

[A Nuclear Energy Solution to Prevent Russian Dominance \(Real Clear Energy\)](#). Tensions between Russia and Ukraine have created unease in global energy markets. . . . In the midst of these dynamics, nuclear energy looks really appealing. The problem is [52](#) nuclear reactors are under construction across the globe, but only two of those are in the United States. Russia accounts for [about two-thirds of reactors sales](#) worldwide. NuScale, the first small modular reactor to get a design certification, took [5 years and half a billion dollars](#) to navigate the process. There are always hiccups for first movers, but that cannot become the norm for the review of new technologies. The federal government must partner with, not stand in the way of, cutting-edge entrepreneurs like Oklo, X-energy, TerraPower, Holtec, General Electric, Kairos, and NuScale.

[Opinion: Manufactured Nuclear Reactors Crucial to Ending Climate Change, Boosting Ohio Economy \(The Columbus Dispatch\)](#). Early engagement by organizations like the Ohio Manufacturers Association and the Ohio Department of Development with nuclear reactor vendors like General Electric, X-Energy, BWXT, and NuScale Power will ensure Ohio leads as a powerhouse in manufacturing and clean-energy deployment. Ohio universities, community colleges and trade schools will play a pivotal role in this effort.

[Doosan Heavy Eyeing Orders From NuScale for Polish SMR Project \(Pulse\)](#). South Korea's Doosan Heavy Industries & Construction Co. is expected to win more small modular reactor (SMR) component and equipment orders from NuScale Power as its U.S. partner will make a foray into the Polish SMR market. . . . Doosan Heavy I&C already signed a contract to build SMR equipment for NuScale Power's other SMR project in the U.S. It plans to begin to build components for the U.S. SMR project in Idaho, which is expected to be completed in 2029, in July this year. The Korean power equipment maker also expects to supply components for the American partner's SMR project in Romania.

[Big Coal States Eye Small Nuclear Reactors for Grid, Economy \(E&E News\)](#). Some of the nation's biggest coal states are quickly warming to small nuclear. . . . So far, the NRC has approved just one small modular reactor design from Portland, Ore.-based NuScale Power. The (462) megawatt plant, dubbed

the Carbon Free Power Project, will consist of (six) reactors on 890 square miles at DOE’s Idaho National Laboratory. . . . A NuScale paper last year suggested reasons why its SMRs are a good fit for existing coal plant sites. The 77-megawatt modules in NuScale’s design can be configured in groups of four, six or 12 — a total roughly equivalent to a medium-size coal plant. And they are sized to fit within the confines of an existing coal plant property, potentially enabling the reuse of cooling water delivery systems and other infrastructure, potentially saving as much as \$100 million per site, the paper said.

Poland Secures NuScale SMR as Urgency for Nuclear Energy Ramps Up Across Central, Eastern Europe (Power Magazine). NuScale Power has signed a definitive commercial agreement with mining and processing firm KGHM Polska Miedź S.A. to deploy a VOYGR power plant of up to 924 MWe as early as 2029 to support KGHM’s copper and silver production in Poland. Under an “early works agreement” signed in a ceremony on Feb. 14 in the presence of U.S. and Polish government officials, Portland, Oregon—based NuScale and KGHM will kick off preparation of “the whole investment project,” including site selection, said Marcin Chludziński, president of the KGHM Polska Miedź S.A Management Board, during the ceremony. The agreement “is not just a declaration anymore, but an actual agreement,” Chludziński said.

In Other News . . .

UAMPS’ annual Legislative Breakfast was held on February 16 at the State Capitol. UAMPS member representatives and community leaders were able to mingle with their own state legislators to acquaint them with UAMPS, its projects and priorities, and discuss legislation affecting public power utilities. It’s important for public power agencies to maintain strong relationships with political leaders at federal, state and local levels.



Mike Squires, UAMPS' Government Affairs Manager

Also, Doug Hunter, UAMPS CEO & General Manager, and Mike Squires, UAMPS Government & Public Affairs Director, briefed Idaho policymakers on February 21. Those briefed on the CFPP and other issues included the Idaho Governor’s Office, the Idaho Public Utilities Commission, and state legislators. Hunter and Squires reported that responses to the CFPP were all positive.

If you have questions about UAMPS’ plans for a carbon-free future, please email them to jackie@uamps.com.