

April 22, 2021

The Idaho Falls Power Board of the City of Idaho Falls met Thursday, April 22, 2021, at the Idaho Falls Power Old Lower Plant, 1690 Glen Koester Lane, Idaho Falls, Idaho at 11:00 a.m.

Call to Order, Roll Call, and Announcements

There were present:

- Mayor Rebecca L. Noah Casper
- Board Member Michelle Ziel-Dingman
- Board Member Jim Francis
- Board Member Jim Freeman
- Board Member Thomas Hally
- Board Member John Radford
- Board Member Lisa Burtenshaw

Also present:

- Bear Prairie, Idaho Falls Power (IFP) General Manager
- Stephen Boorman, IFP Assistant General Manager
- Randy Fife, City Attorney
- Mark Reed, IFP Generation Superintendent
- Colby Scholes, IFP Substation Foreman
- Ben Jenkins, IFP Electrical Engineer PE
- Thomas Mosier, Idaho National Laboratory (INL) Energy Systems Group Lead
- Linda Lundquist, IFP Board Secretary

Mayor Casper called the meeting to order at 11:15 a.m.

Tour and Discussion of Microgrid Hydro Project

Generation Superintendent Mark Reed explained the importance of a black start as a resource if the region ever goes dark and pointed out the large-scale load banks that were brought into the plant as part of the black start testing. He explained how the utility and INL researchers performed tests this week to see how the city's turbines and generators might be ramped up quickly with the aid of energy storage devices. He added that the project also tested how the utility's control systems can be made more stable and responsive during emergencies. Mr. Reed explained the process of disconnecting the lower plant from the grid, reconfiguring the current local distribution grid to island the assets and then connecting them into the load bank. He explained how using the large load banks combined with INL's super capacitor helped to successfully stabilize the system. Foreman Scholes described how the two load banks together produce about 8MW of power and Mr. Mosier showed everyone what the super capacitor looked like and explained how it worked in this simulated model. He added that INL connected their super-computers to the system during testing to capture minute power and operational data for future analytics and noted their goal is to enable other hydropower facilities to function as blackout backstops. The group toured the inside of the facility where Mr. Reed and Mr. Jenkins answered questions about the testing and explained how the utility and INL prepared for the testing over the last two years. Mayor Casper complimented on how mutually beneficial the city and INL's partnership has been over the years.

There being no further business, the meeting adjourned at 12:05 p.m.

s/ Linda Lundquist

Linda Lundquist, BOARD SECRETARY

s/ Rebecca L. Noah Casper

Rebecca L. Noah Casper, MAYOR