



CARBON FREE POWER PROJECT UPDATE DECEMBER 2021

CFPP 2021 SUMMARY

- Kicked-Off 2021 with Approving Key Agreements
 - NuScale DCRA – Development Cost Reimbursement Agreement
 - Fluor EPCDA - Engineering Procurement Construction Development Agreement
- Project Director – On-boarded
- Transitioned Plant from 12 to 6 NPMs, 60MWe to 77MWe and Aligned Standard Plant Design with COLA
- Initiated COLA Activities
 - Initiated Site Development & Field Investigations
- Engaged Potential Operator
- Initiated Class 3 PCE Activities & COLA Engineering Support
- Completed Term Sheets
 - OEM-NuScale
 - EPC-Fluor Term Sheets
- Geotechnical Core Boring Completed

NUSCALE UPDATE

- Licensing and NRC Engagement
 - Multiple NRC Pre-Application Engagements in Q4 2021
 - Several Topical Reports in Development
- Standard Design Approval Application (SDA)
 - SDA team engaging with COLA project team to establish interface requirements and plans
 - SDA on track for late Q4 2022 submittal to support COLA schedule
- All 2021 DOE Milestones On Track and Completed on Time

TO3 – CLASS 3 ESTIMATE UPDATE

- Class 3 Estimate (-20% / +30%) In Development
 - Finalizing Basic Engineering Design Data document
 - Receiving technical input from Standard Plant Design
 - Reconciling collaborative input to CFPP Plot Plan
 - Initiated Area Labor Market Analysis with visit to INL area
 - Developing site specific design criteria for civil and structural
 - Developing temporary facilities plan for construction
- Slightly Behind Schedule & Slightly Under Budget
 - Slower Staffing Ramp Up
 - Delay in receipt of S&L completed sized equipment list and datasheets
 - Delay in receipt of S&L Instrument List / Control System Equipment List
- Projecting Completion On or Ahead of Schedule

FLUOR TO4 – COLA DEVELOPMENT

- COLA Team transitioned from project set up to project execution
- COLA Baseline Schedule and Execution Plan issued
- COLA subcontract awards complete
- Slightly Ahead of Schedule & Slightly Under Budget
 - Geotechnical Investigations Ahead of Schedule & Performed in Less Hours than Planned
- Projecting Completion On Schedule

CFPP SITE STATUS, SAFETY & COVID UPDATE



Shift 6: Well Drilling

- 20-30 Workers on Site - Depending on Activities
- Zero Recordable Injuries
 - Safety Briefings Occurring Daily
- No New COVID Concerns
 - COVID Protocols for Testing and Quarantine Being Followed
- Winter Weather Impacting Production
 - Ice & Snow: Impacting travel to site and work on site
- Core Boring Completed – Reported Last Month

- Well Drilling Continues
 - Behind Schedule – 88% complete
 - Not on Critical Path
 - Drilling Complete on 8 of 10 Wells
 - Issues with Well Cave-Ins and Equipment Problems
 - Recovery Plan Being Implemented
 - Targeting well development/testing complete by Dec. 22

COLA SITE
INVESTIGATIONS

METEOROLOGICAL (MET) TOWER

- DOE Work Authorization for Met Tower Approved November 24
- Met Tower Successfully Lowered December 2nd
 - Instruments Reviewed – Previous Damage Due to Lightening
 - As-Found Calibrations Performed
 - Instruments Replaced & Calibrated
- Met Tower Raised on December 3rd
 - Data Collection in Progress
- Two Years of Data Required for COLA



Met Tower Lowered
Instrument Installation & Calibration

UPCOMING ACTIVITIES

- Seismic Reflection Testing - January
 - Image structure of subsurface by measurement of travel time of reflected artificially-generated elastic waves
 - The seismic reflection survey uses a 450-pound accelerated hammer system as a seismic source. This hammer system is mounted on a rubber-tracked crawler system
- Analysis of Geotech Core Samples
- Transfer of Core Samples to INL USGS Warehouse for Storage
 - Agreements being finalized
- Demobilize from the CFPP Site Planned for Mid-January



Surveys of Boxed CFPP Core Materials Prior to Storage in USGS Warehouse



Rubber Tracked Crawler with Accelerated Hammer

NRC & DOE UPDATE

- DOE agreed to delay the INL PSHA/SSHAC process to integrate CFPP data
 - Alignment meeting with the INL PSHA/SSHAC team in early January
 - (PSHA = Probabilistic Seismic Hazards Analysis)
 - (SSHAC = Senior Seismic Hazards Analysis Committee)
- NRC Volcanic Hazards Meeting Held November 18
 - CFPP, NuScale & Fluor Discussed the CFPP Approach to Volcanic Hazards Analysis (VHA) for the COLA
 - Deterministic VHA will be pursued
- Letter of Cooperation Issued by BEA (Battelle Energy Alliance) regarding integration of the CFPP COLA Volcanic Hazard Analysis with the ongoing INL Volcanic Hazard Analysis process

SUBSCRIPTION

Grant County PUD

- Collaboration continues
- Focus on transmission delivery solutions

Clark Public Utilities

- Due diligence progressing
- Focused on transmission

Utilities considering LOI

- Engaged with 4 Northwest entities
- 50-100 MW