

Aspen Power Station Project

Wolverine, Saskatchewan

2024 – 2027



**BURNS
MCDONNELL**

Traditional Lands Recognition

ASPEN COMBINED CYCLE POWER STATION

Burns & McDonnell respects and would like to acknowledge that the land designated as the site for the Aspen Power Station is on Treaty 6 Territory and we also acknowledge it borders Treaty 4; and all the communities represented by this prospective project are signatories of these treaties.

This is the traditional lands of Cree, Saulteux, Dakota, Anishinaabe, and the homeland of the Métis. We are dedicated to ensuring that the spirit of Reconciliation and the Numbered Treaties are honored and respected. This acknowledgement also reaffirms our relationship with one another, and we are committed to move forward in partnership with Indigenous Nations in the spirit of reconciliation and collaboration.





ABOUT BURNS & MCDONNELL

Who We Are

STRENGTH

MORE THAN **14,000** PROFESSIONALS

DEPTH

75 OFFICES WORLDWIDE

EXCELLENCE

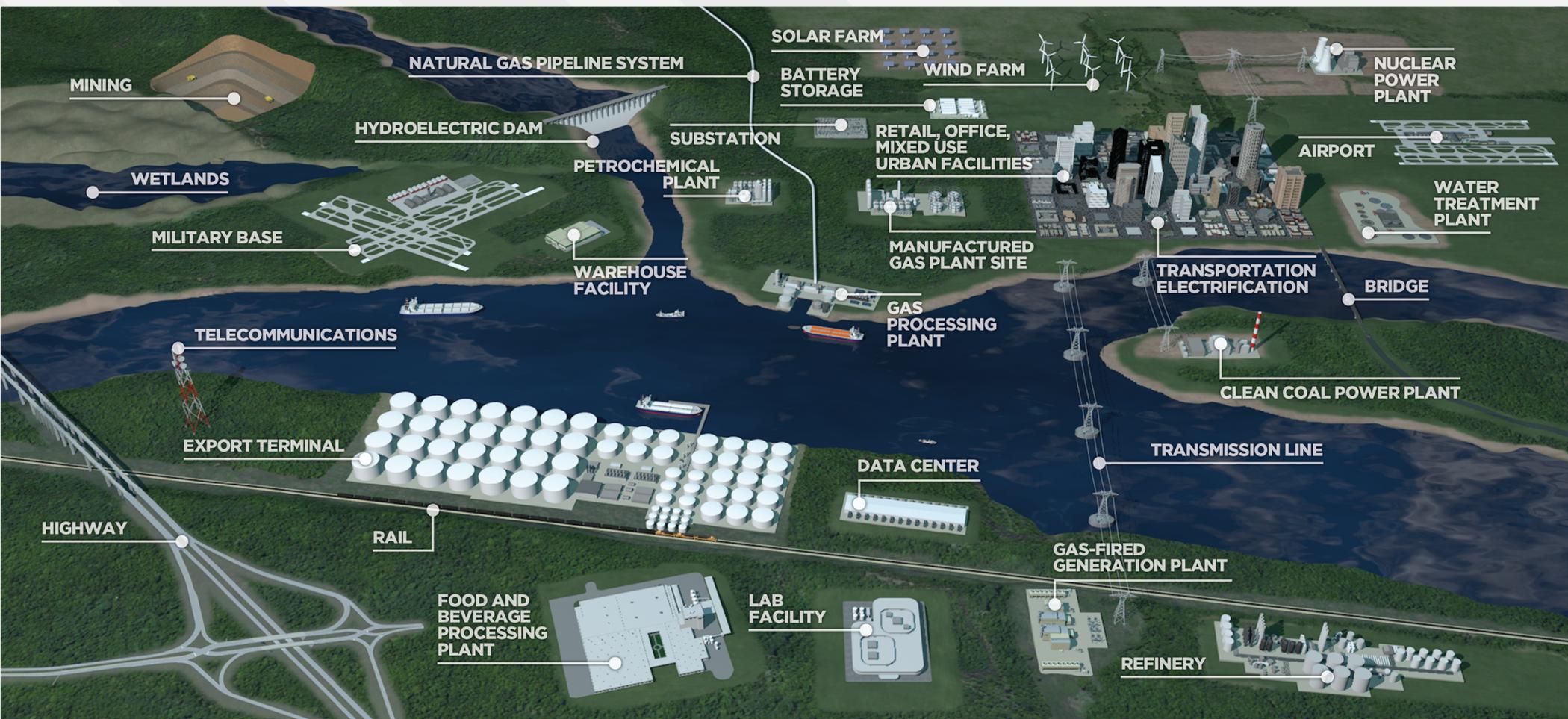
#9 TOP 500 DESIGN FIRMS

COMMITMENT

100% EMPLOYEE-OWNED



Key Industries and Markets We Serve



In the past decade

**Over \$2 billion
small/diverse
expenditures**

“Burns & McDonnell doesn’t just go through the motions of having a diversity program. Their commitment is actively and constantly on display in the communities in which they do business.”

– **Kelly Scanlon**, Thinking Bigger Business Media Inc.

Burns & McDonnell Canada

77 Years in
Canada

\$3.7 Billion EPC Projects

6,000 MW Generation Projects

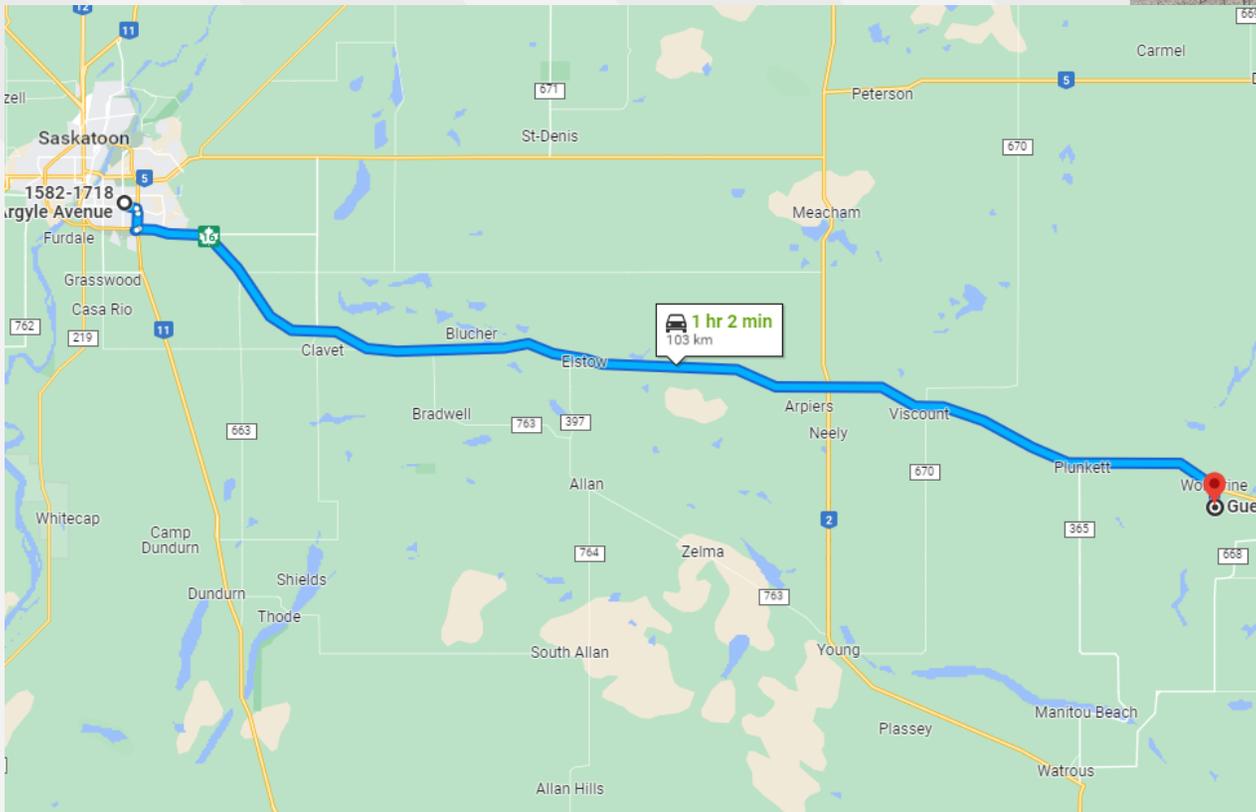
60 Substations

3,210 km Linear Infrastructure

3 Offices Calgary, Toronto, Moose Jaw

Aspen Project Overview

- 370+ MW NG Combined Cycle Power Station
- Near Lanigan, SK, CA



Great Plains -> Aspen Power Station

Project Comparison

Great Plains Power Station

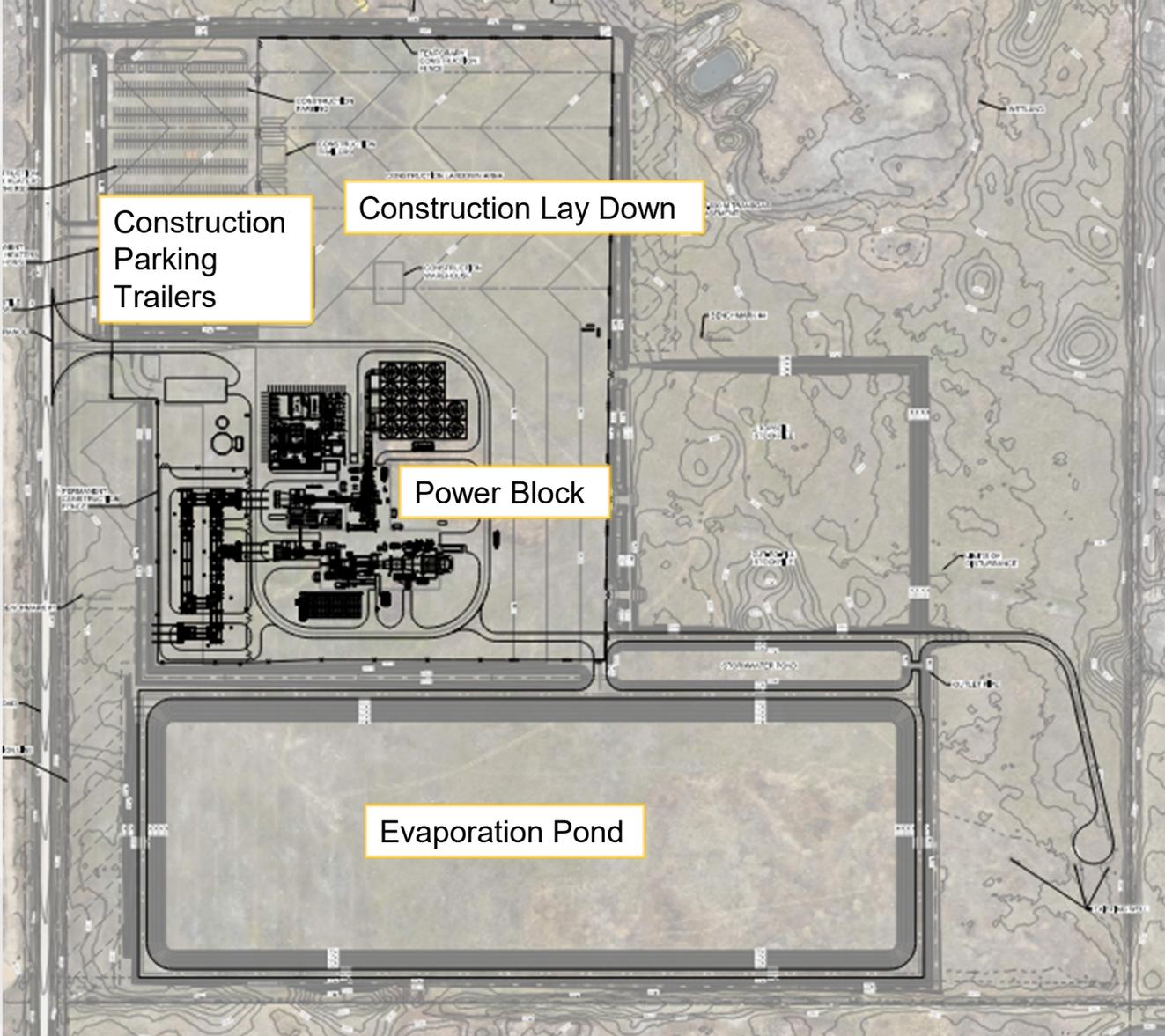
- 360+ MW 1X1 Combined Cycle Plant
- Greenfield Project Site
- Siemens SGT6-5000F Gas Turbine
- Siemens SST6-900 Steam Turbine
- Nooter/Eriksen Triple Pressure HRSG
- Fully Enclosed Power Generation Building
- Evapco Air-Cooled Condenser
- Wastewater to the City of Moose Jaw

- Project Award – November 2020
- Commercial Operation - August 2024

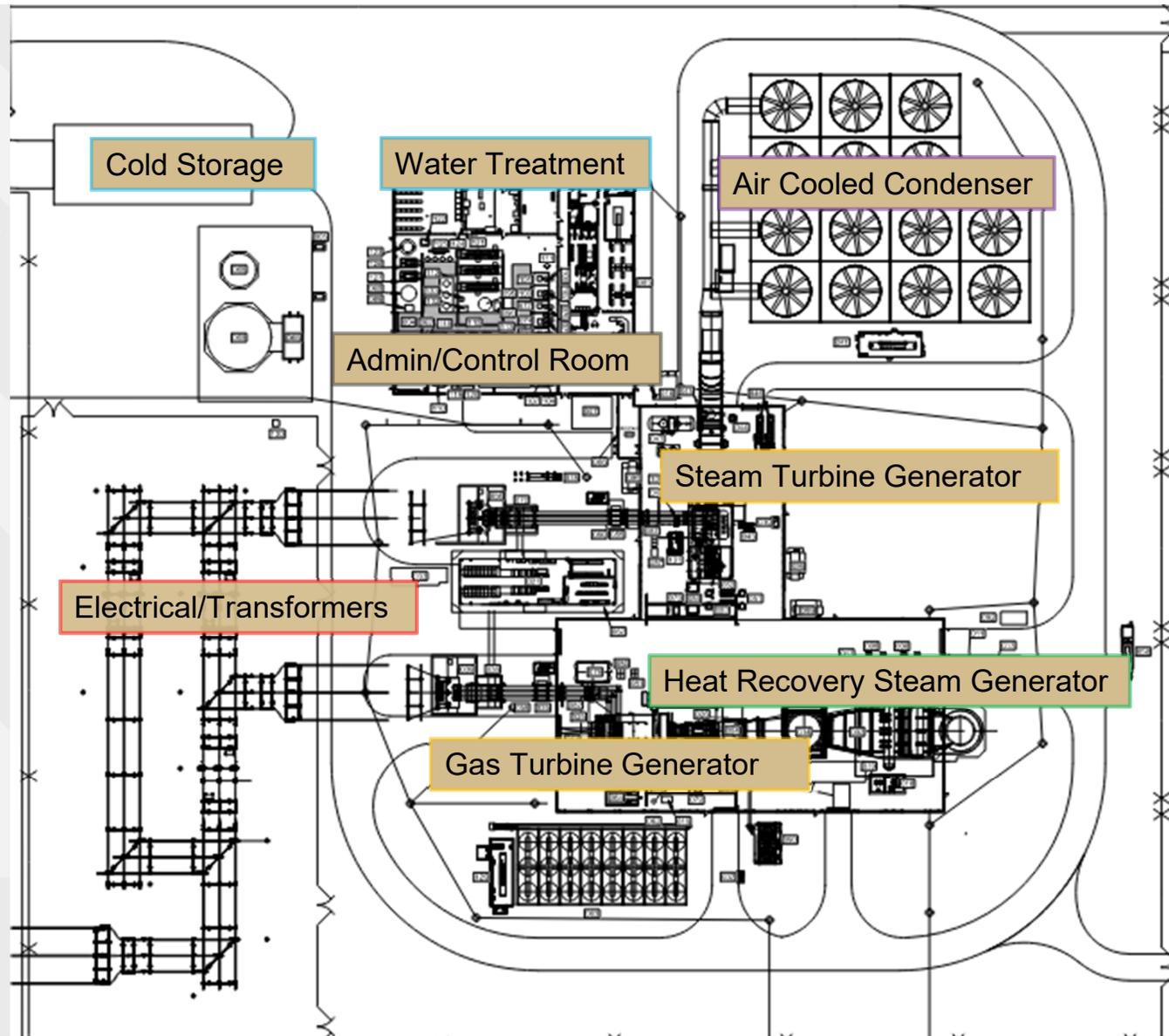
Aspen Power Station

- 370+ MW 1X1 Combined Cycle Plant
- Greenfield Project Site
- Siemens SGT6-5000F Gas Turbine
- Siemens SST6-900 Steam Turbine
- Nooter/Eriksen Triple Pressure HRSG
- Fully Enclosed Power Generation Building
- Evapco Air-Cooled Condenser
- **Simple Cycle Option/Bypass Stack**
- **Evaporation Pond**
- **Project Award - March 2024**
- **Commercial Operation – December 2027**

Aspen Site Layout

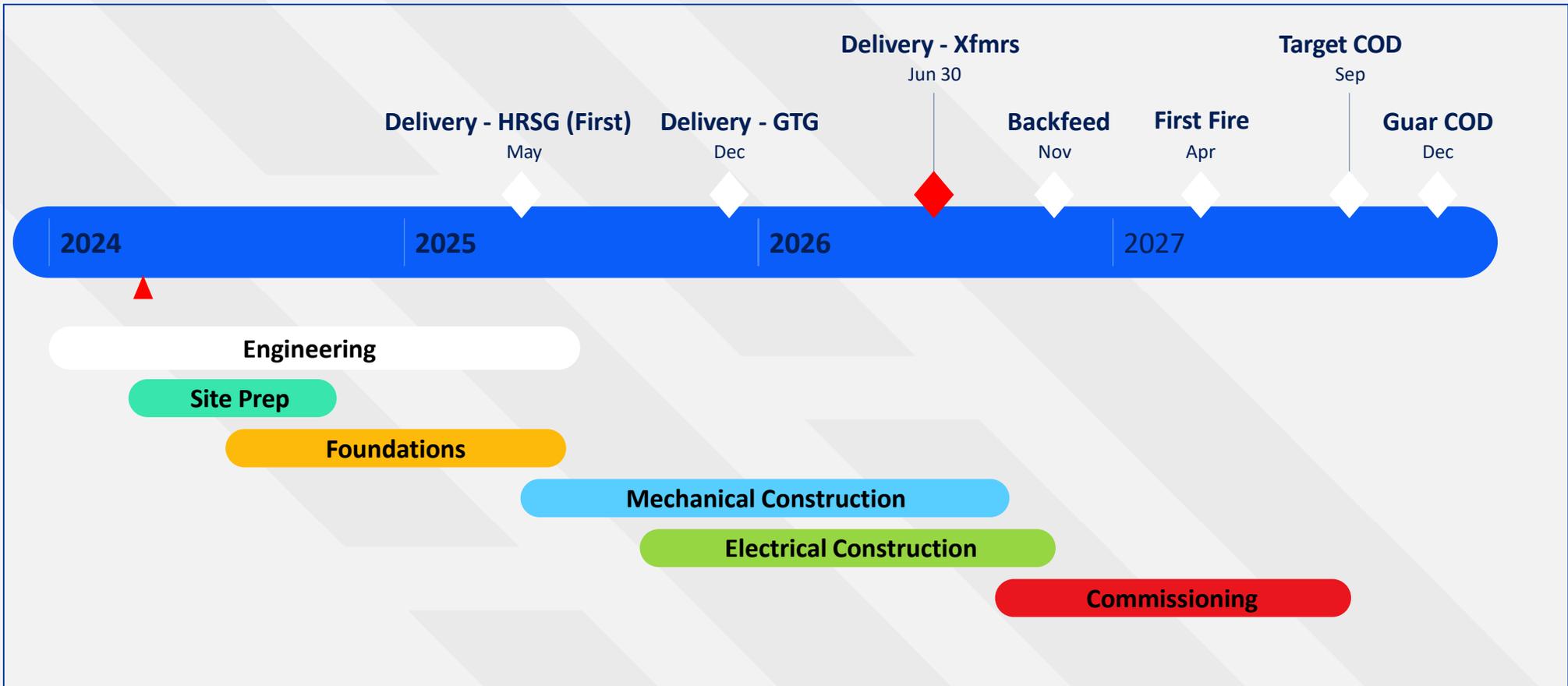


Aspen Power Station General Arrangement



Aspen Schedule

Aspen = 42 months from Award to Guaranteed COD



Procurement Process

1. Interested Party List

- Supplier & Subcontractor Website Registrations
- Organization Recommendations (SIMSA, etc.)
- Prior Experience with SPC/BMcD

2. Pre-Qualification Process

- Qualified bidders based on
 - Safety
 - Quality
 - Experience
 - Local Content
 - Indigenous Content
 - Bonding & Insurance

3. Establish Bidders List

- Based on Prequalification, narrow the bid list to 3-5 bidders

55
Equipment Contracts

30
Subcontracts

17
Service Contracts

Focusing on local & Indigenous Contractors to subcontract scopes of work

Project open to Non-Union, Union or CLAC

Evaluation criteria includes safety, quality, experience, local/Indigenous content, and price

Procurement Process

4. Issue Bid Package

- Tender will be sent out via Procore

5. Bid Conditioning

- Go through Clarifications & Exceptions
- Review quantities, pricing, execution plan, contract redlines
- Review bid tabs with SPC

6. Award

55

**Equipment
Contracts**

30

Subcontracts

17

Service Contracts

**Focusing on local &
Indigenous
Contractors to
subcontract scopes
of work**

**Project open to Non-
Union, Union or
CLAC**

**Evaluation criteria
includes safety, quality,
experience,
local/Indigenous content,
and price**

Construction Procurement Process

Subcontracting Plan

- Similar subcontracting plan to GPPS project (multi-sub) + break up large scopes as needed to support labor availability
- Diverse, indigenous & local spend plan / goal
- No dedicated partners + subcontracting all construction = cost transparency to SaskPower

Subcontracting Plan

8110 – Site Clearing & Setup (Awarded to Allan Construction)

Responsibilities:

- Site Clearing
- Construction Laydown & Parking Areas
- Temporary Roads
- Perimeter Fencing & Gates

Examples of Items Potentially Needed from Local Suppliers:

- Aggregate
- Fencing Materials
- Silt Fencing
- Geotextiles



Subcontracting Plan

8210 – Piling

Main Piling with be Auger Cast Piles

- Supplemented with Helical Piles for Switchyard and small foundations



Subcontracting Plan

8220 – Power Block Foundations & Underground

Responsibilities (underground):

- Piping
- Electrical
- Power Block Foundations

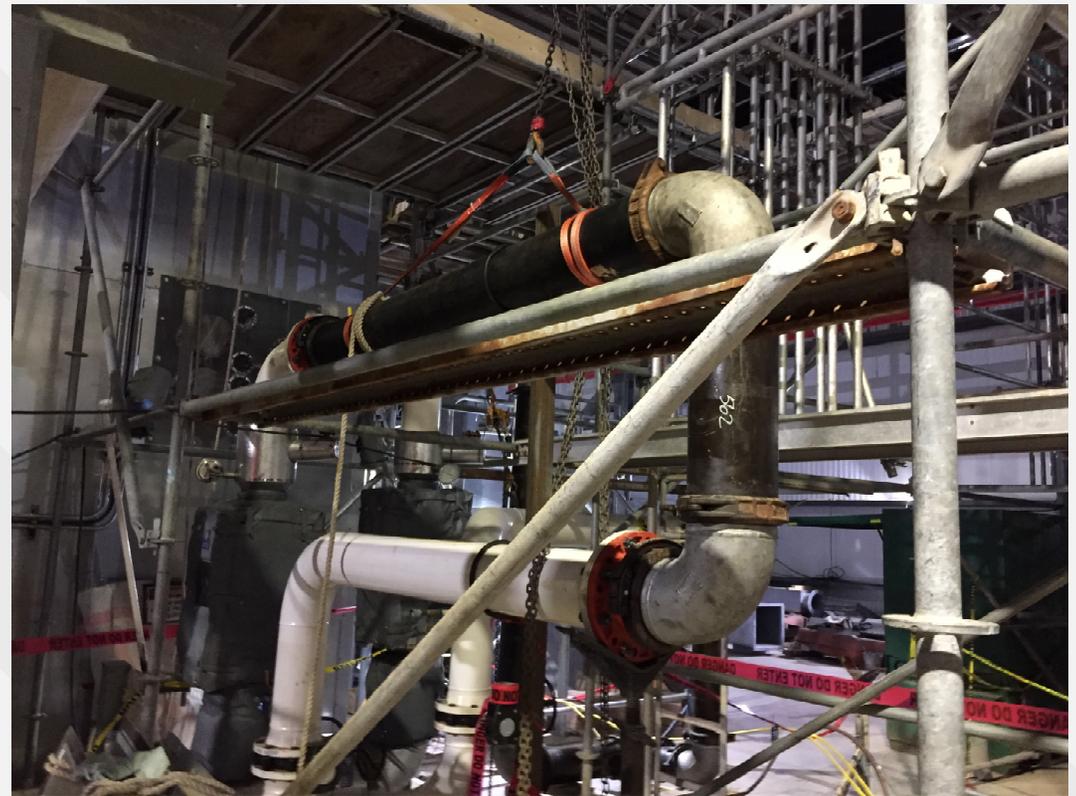
8221 – Balance of Plant Foundations

Responsibilities:

- Smaller foundations outside the Power Block
- PCMs
- Tanks
- Miscellaneous

Subcontracting Plan

2320 – Above Grade General Service Pipe Fabrication



Subcontracting Plan

HRSG Stair Tower & Stack Fabrication



Subcontracting Plan

8530 – Admin & Warehouse Construction

Responsibilities:

- Design
- Piling
- Foundations
- Structural Steel Erection
- Siding & Roofing
- Building Finishes
- HVAC
- Electrical
- Plumbing

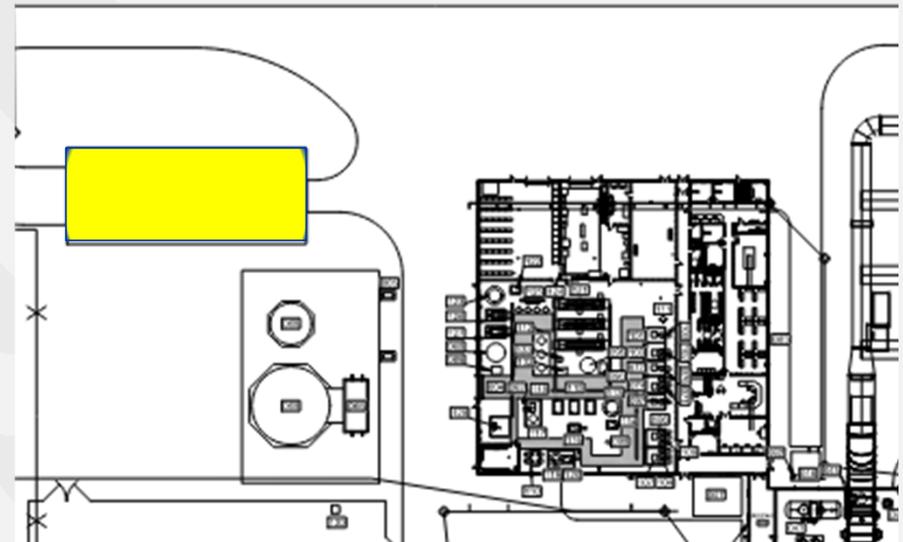


Subcontracting Plan

8530 – Cold Storage Building

Responsibilities:

- Pre-Engineered Building Design
- Foundations
- Structural Steel Erection
- Siding & Roofing
- Building Finishes
- HVAC



Subcontracting Plan

8240 – Powerhouse Structural Steel



Subcontracting Plan

8515 – ACC Installation Structural/Mechanical

Overview:

- Erection of 14 Cell Evapco ACC
- Structural & Mechanical Erection



Subcontracting Plan

8315 – Heavy Haul

Responsibilities:

- Transport of GTG, STG, HRSG, and GSU Transformers from Rail Spur
- Setting of major Equipment using gantry



Subcontracting Plan

8245 – Powerhouse Cladding & Roofing

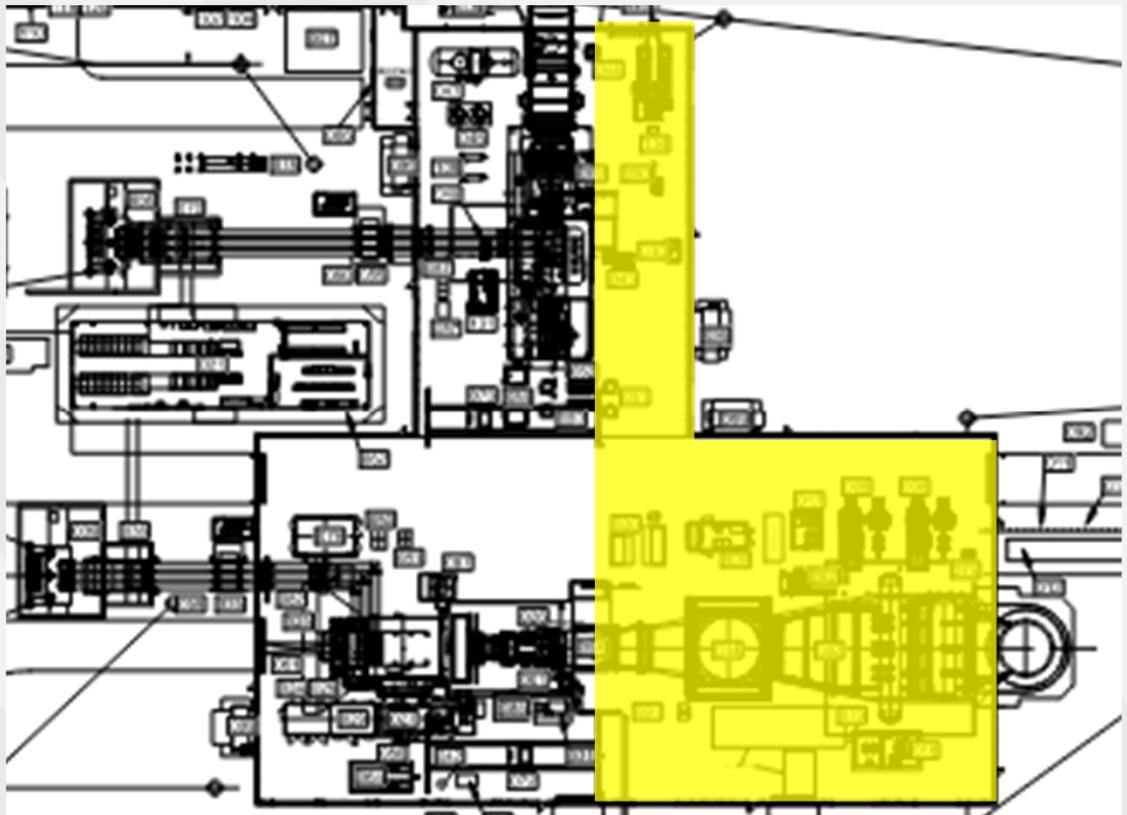


Subcontracting Plan

8320 – HRSG & Main Rack Mechanical/Structural

Responsibilities:

- Installation of NE HRSG
- Piping Systems
- HRSG Building Structural Steel

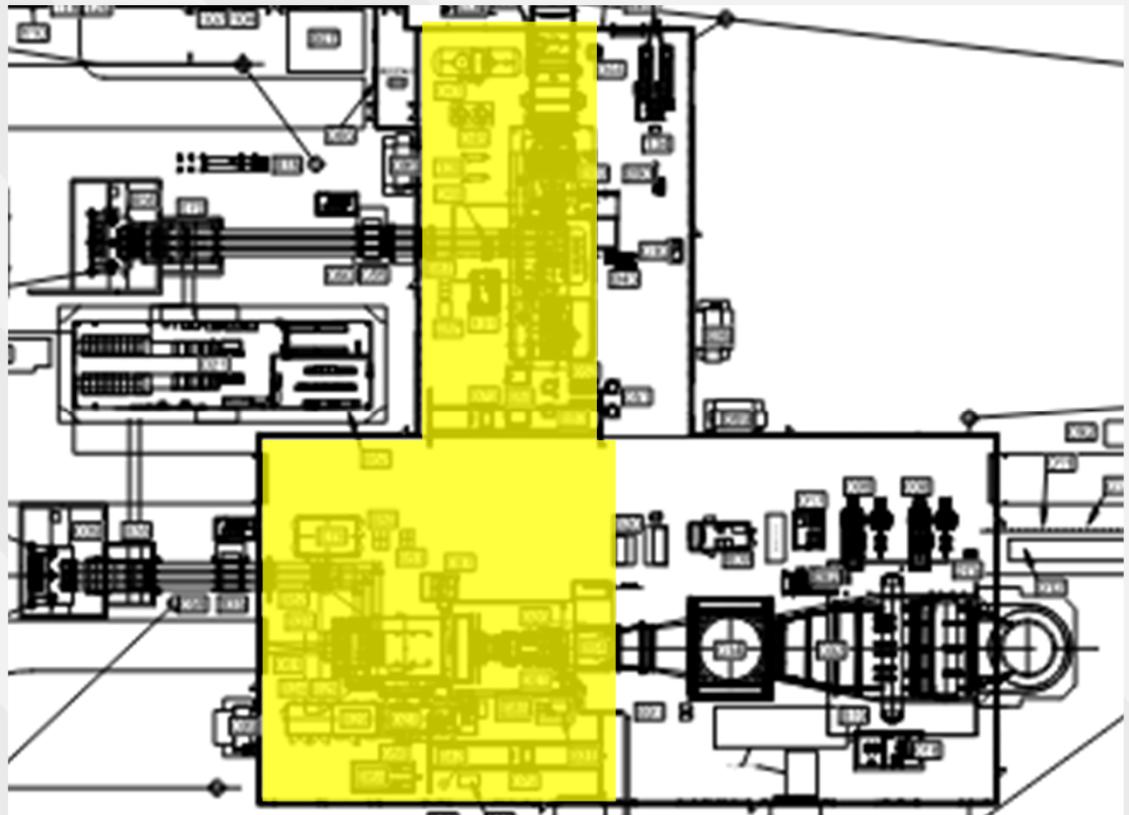


Subcontracting Plan

8321 – GTG & STG Mechanical/Structural

Responsibilities:

- GTG Installation
- STG Installation
- BOP equipment and piping



Subcontracting Plan

8322 – Water Treatment Mechanical/Structural

Responsibilities:

- Installation of Equipment
- Piping Systems
- Supplemental Steel

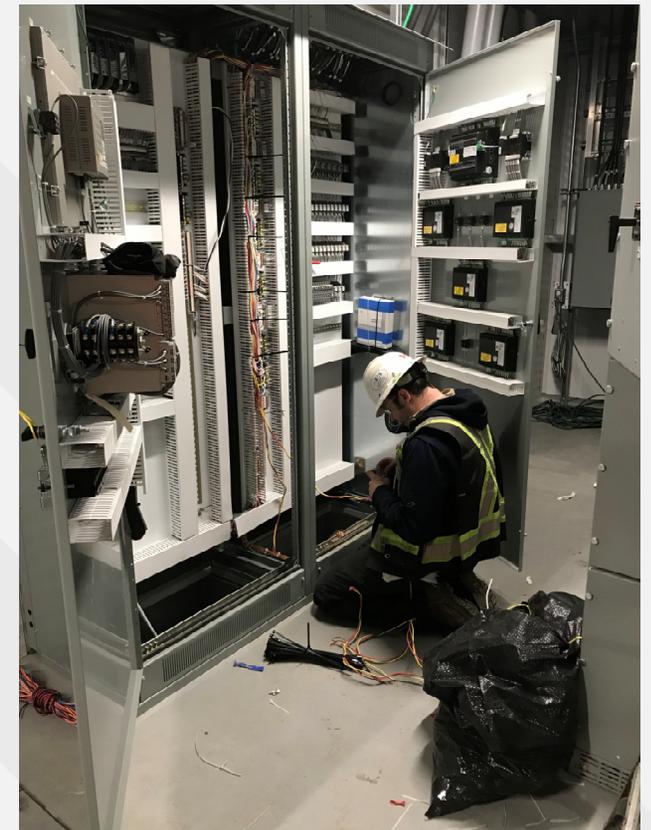
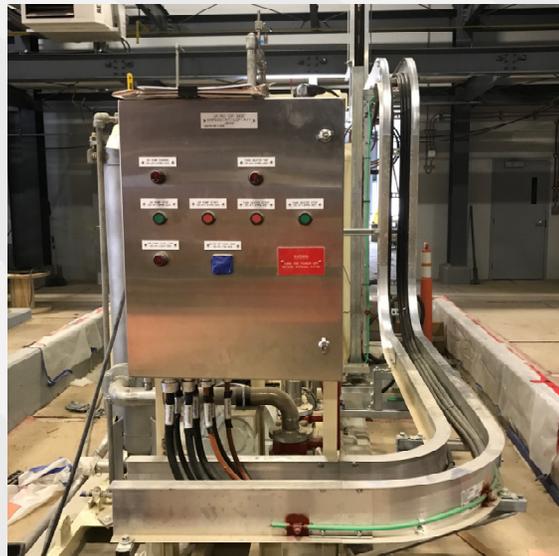


Subcontracting Plan

8410 – Electrical Construction

Responsibilities:

- Setting of Electrical Equipment
- Lighting, Security, Communications
- Instrumentation & Controls
- Tray Installation
- Cable Installation/Termination



Subcontracting Plan

Substation Construction



Subcontracting Plan

8340 – HVAC Installation

Responsibilities:

- Building HVAC Systems



Subcontracting Plan

8360 – Fire Protection & Detection



Subcontracting Plan

8335 – Scaffolding



Subcontracting Plan

8330 – Insulation & Lagging



Subcontracting Plan

8140 – Site Finishes

Responsibilities:

- Final Roads & Paving
- Landscaping (Sidewalks, Stone, Trees, etc.)

Examples of Items Potentially Needed from Local Suppliers:

- Aggregate
- Concrete
- Seeding, Trees, & Shrubs



Subcontracting Plan

9021 – General Site Services

Responsibilities:

- Construction Lighting
- Snow Removal
- Dust Suppression

Schedule:

- 2024 – 2027



Service Contracts Plan

9010 – Surveying

Responsibilities:

- Verification of Foundation Locations

9210 – Soil/Concrete Testing

Responsibilities:

- Soil Testing
- Concrete Break Testing
- Grout Break Testing

9110 – Site Security & Medical

Responsibilities:

- Monitoring of Site during off-work hours
- Monitoring deliveries
- Monitoring Contractors/Craft entering & exiting site

Startup Craft Support

Responsibilities:

- Electricians
- I&C Techs
- Millwrights
- Pipefitters

Local Services Needed

Catering & Restaurants

Responsibilities:

- Providing meals for meetings & events at site
- Restaurants for visitors to the project

Housing & Hotels

- Will have ~30 BMcD personnel relocate to the area
- Craft moving to site
- Visitors weekly once under construction

Local Hiring Opportunities

Rental Equipment

Responsibilities:

- Providing Rental Equipment/Equipment Servicing

Trash Services

Responsibilities:

- Providing dumpsters & trash services to site

Office Cleaning

Responsibilities:

- Periodically cleaning Office Trailers

How to Contact Us/Stay up-to-date

Procurement Updates

- Forecasted bid dates
- Awarded Contracts
- Contact Information for successful bidders

Eq. No.	Contract Name	Description	Forecasted RFP Issue Date	Award Date	Awarded to	Contact
5.121.0	Steam Turbine and Generator (STG)	125 MW Steam Turbine		1/31/2024	Siemens Energy Inc Orlando, FL, US	Shawn Thompson 1407-242-3934 shawn.thompson@siemens-energy.com
5.122.0	Gas Turbine and Generator (GTG)	125 MW Gas Turbine		1/31/2024	Siemens Energy Inc Orlando, FL, US	Shawn Thompson 1407-242-3934 shawn.thompson@siemens-energy.com
5.123.5	Heat Recovery Steam Generator (HRSG)	Recycle heat recovery from the Gas Turbine used to generate steam to feed the Steam Turbine.		2/8/2024	Robert Critchley Inc Penton, MD, US	Jim Kildner 410-551-1344 jkildner@rci.com
5.223.0	Air Cooled Condenser (ACC) (Furnish Only)	Cools exhaust steam from the Steam Turbine back to liquid and recycles it for steam capture in the Heat Recovery Steam Generator.		3/15/2024	Truon Dry Cooling, Inc. Bridgewater, NJ, CA	Shawn Barnes 908-895-3242 shawn@truondry.com
5.531.0	Major Electrical Equipment	Included Power & Control Module (PCM), Main PCM, HRSG PCM, ACC PCM, and miscellaneous plant electrical equipment.	1/30/2024			
5.528.0	Diesel Generator	1.25 MW Emergency Diesel Generator utilized if the plant is not operating and power has been lost from the grid.	10/02/2024			
		Site clearing, construction of laydown & parking areas, temporary roads, perimeter fencing and gates.	2/8/2024			
		Temporary construction site - Approximately 1,500 sqm.	2/8/2024			
		1-10 Metric Ton Gas Turbine Bridge Crane 6.0 Metric Ton Steam Turbine Bridge Crane	2/8/2024			
		Raw water treatment system, Demineralization water treatment system, Chemically enhanced backwash system, Chemical base tank. Equipment supply and a related commissioning services.	10/02/2024			



Building a Strong Team for the Aspen CCGT Power Station

Burns & McDonnell respects and would like to acknowledge that the land designated as the site for the Aspen CCGT Power Station is on the traditional lands referred to as Treaty 6 territory; and that all the people represented by this prospective project are beneficiaries of this treaty. Treaty 6 encompasses the lands of the Cree, Dakota, Nakota, Saulteaux and the homeland of the Métis Nation. We are dedicated to seeing that Treaty 6 is honored and respected. This acknowledgement reflects our relationship with one another, and our commitment to moving forward in partnership with Indigenous Nations in the spirit of reconciliation and collaboration.

Scan to access Aspen Power Project information



