

Welcome

Metro Plant Fourth Incinerator Design-Build Information Session



You are muted and your video is disabled upon entry. Participants are in listen-and-view mode.



If you experience any technical difficulties, please call or text 651.691.9124 or email info@metrosolids.com.



Utilize the QA (lower right corner of the screen) to type in questions throughout the session. Questions will be answered after the presentation during the Q & A session. Questions can also be submitted by calling 651.691.9124 or emailing info@metrosolids.com.

The meeting will begin at **10 a.m.**

Metro Plant Fourth Incinerator Design Build Information Session

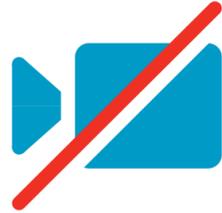


December 8, 2021 - 10:00 AM
Rene Heflin / Stephen Norton
Auburn Dees / Amanda Beaulieu



Meeting Logistics

Metro Plant Fourth Incinerator Design-Build Information Session



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Metro Plant Fourth Incinerator Design-Build Information Session

Join Us!

Metropolitan Council Environmental Services (MCES) will host a virtual information session about the Metro Plant Fourth Incinerator Design-Build project for potential design-build teams. The Metropolitan Wastewater Treatment Plant (Metro Plant) is located at 2400 Childs Road, Saint Paul, MN 55106. The project will be fixed price design-build with an approximate cost of \$150 million and is scheduled to be constructed between 2024 and 2028.

When: Wednesday, Dec 8, 2021
Time: 10:00 - 11:30 AM CST
Format: Virtual
(see link to register and attend to the right)

Register: metro council.org/metrosolids/info session

Learn More
 Hotline: 651.691.9124 | Email: info@metrosolids.com
 Web: metro council.org/metrosolids

MCES Mission
 Provide wastewater services and integrated planning to ensure sustainable water quality and water supply for the region.

After the meeting, the recorded video and presentation will be posted to the event page on the project website (www.metro council.org/metrosolids). A thank you email and link to the event page will be emailed to meeting attendees.

Information Session Objectives



Inform contractor and engineering companies about the upcoming fourth incinerator design-build project.



Topics



Overview



Background



Project Scope



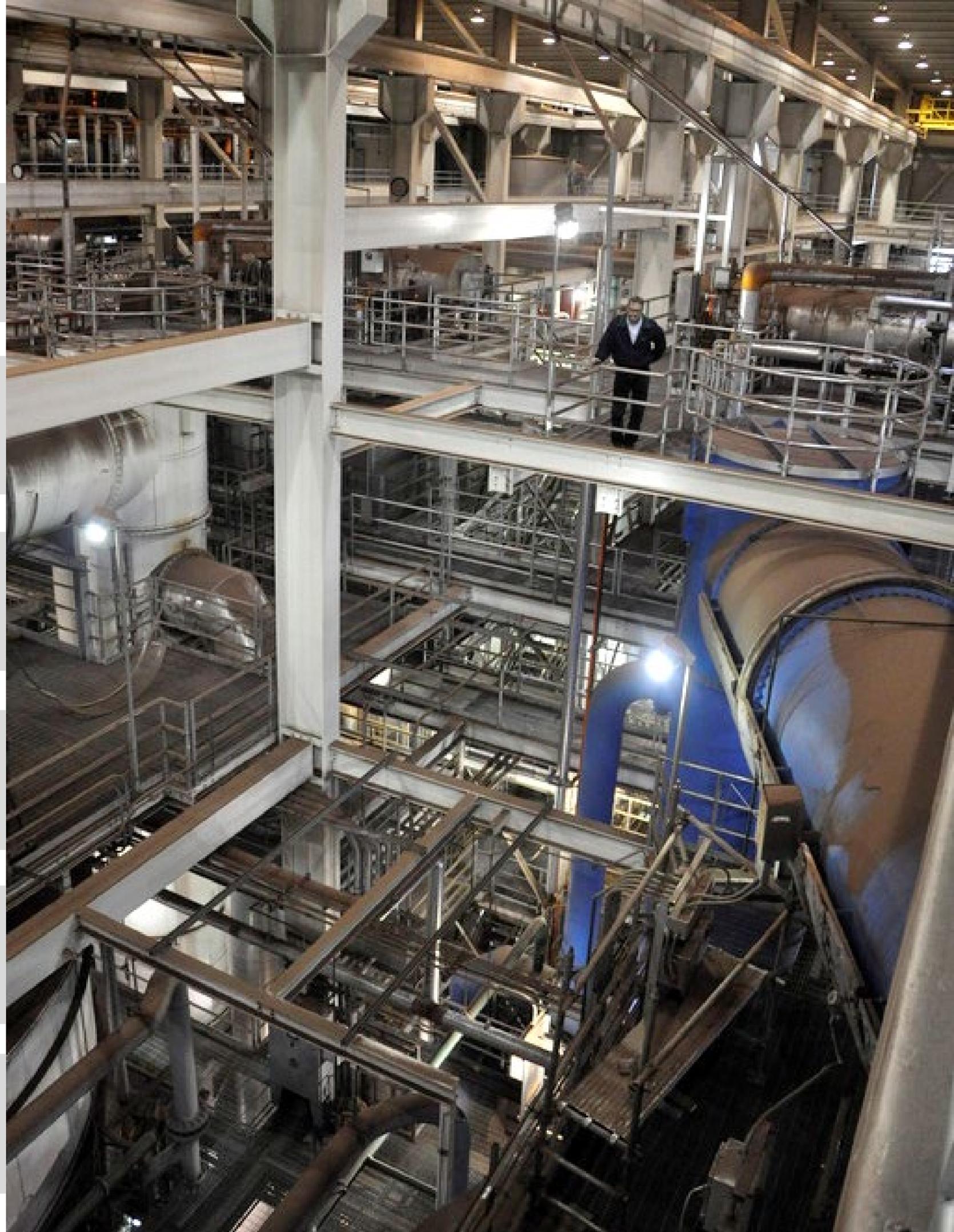
Procurement



MCUB Program



Next Steps



Overview

Rene Heflin

Plant Engineering Manager

Metropolitan Council

Metro Transit

- Operate regional transit system

Environmental Services

- Planning and operation of the regional wastewater collection and treatment system

Metropolitan Transportation Services

- Transit planning and Metro Mobility

Community Development

- Affordable housing plans & programs
- Plan and fund development of regional parks and trails



The Council's mission is to foster efficient and economic growth for a prosperous region.



Protects public health and safety



Protects the environment



Fosters the economic growth of the region

WHO WE SERVE

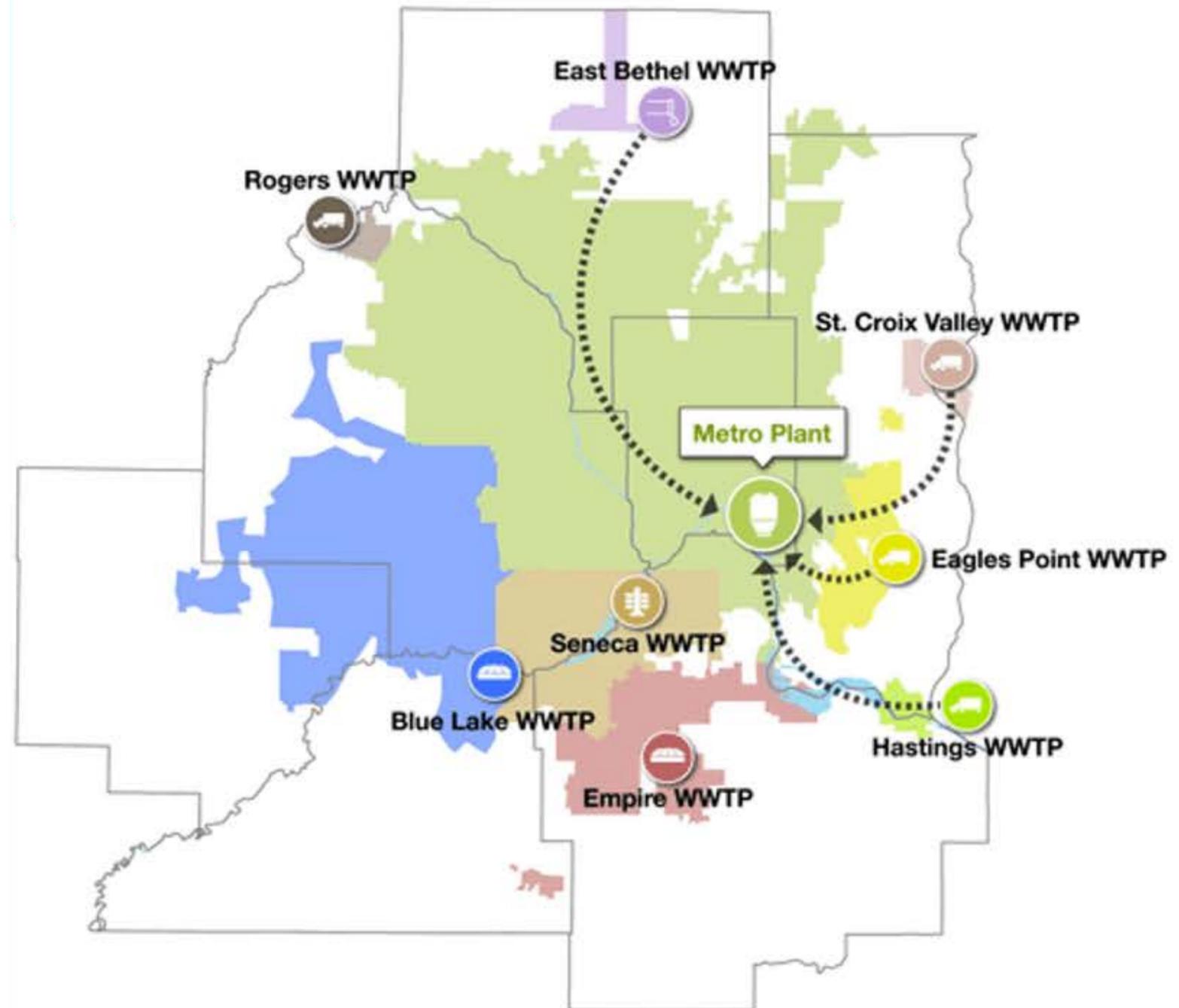
7-county Twin Cities Metro Area
111 communities
2,700,000 people

OUR FACILITIES

9 wastewater treatment plants
640 miles of interceptors
250 million gallons per day (avg)

OUR ORGANIZATION

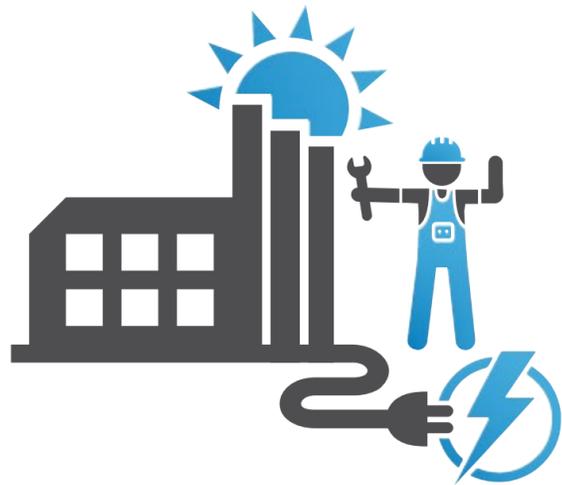
600+ employees
\$7 billion in valued assets
\$150 million / yr capital program



Project Need



Preserve Existing Wastewater Treatment Plant Infrastructure



Serve Regional Population Growth



Adding Solids Processing Capacity at the Metro Plant is Important for the Region.

Project Planning



Public Hearing



Facility Plan



Owners Advisor



BLACK & VEATCH

**Brown AND
Caldwell**



Stantec



**Buildings
Consulting
Group, Inc.**



Luken Architecture

Metro Plant Solids Management Improvements Facility Plan



Prepared for
Metropolitan Council Environmental Services

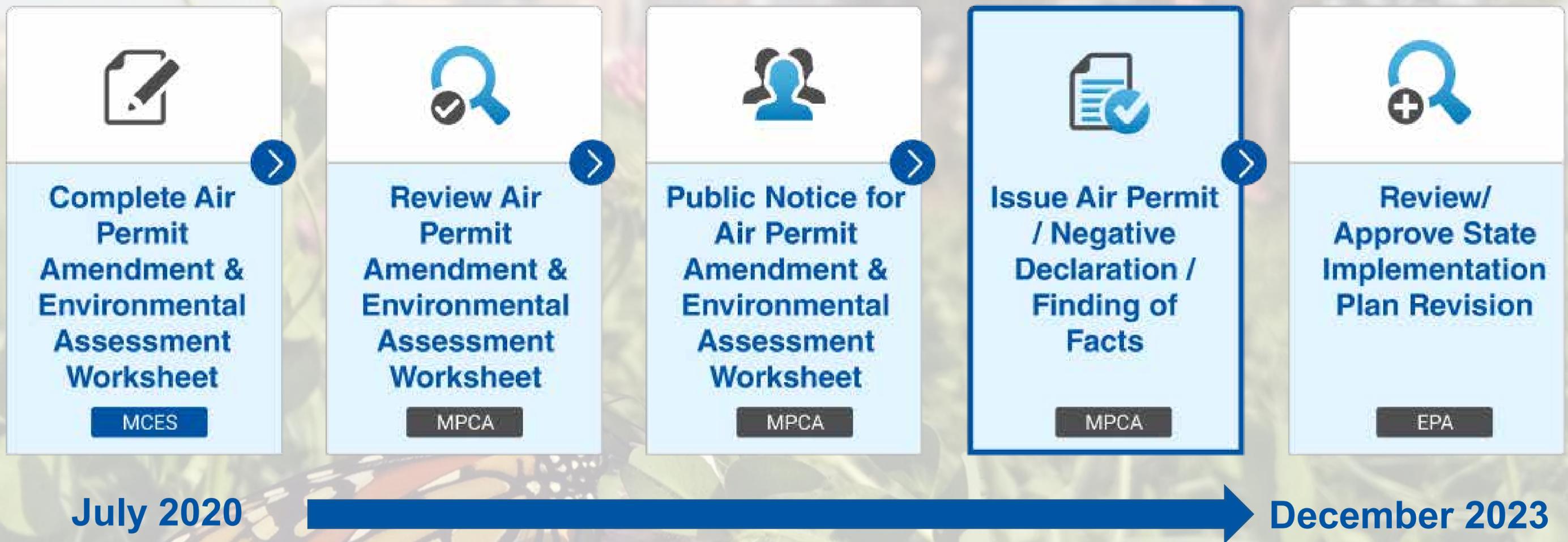
January 2019



After public outreach and public hearing, the Metropolitan Council approved the Facility Plan in October of 2018.

Air Permitting & Environmental Review

MCES has submitted a major air permit amendment and will submit a voluntary environmental assessment worksheet (EAW) to the Minnesota Pollution Control Agency (MPCA)



MCES will work with the MPCA to complete the air permitting and environmental review for the Fourth Incinerator project.

Background

Stephen Norton

Principal Engineer

Project Manager

Existing Solids Processing

1938-2005 —————→ **2005-Present**

Multiple Hearth Incinerators

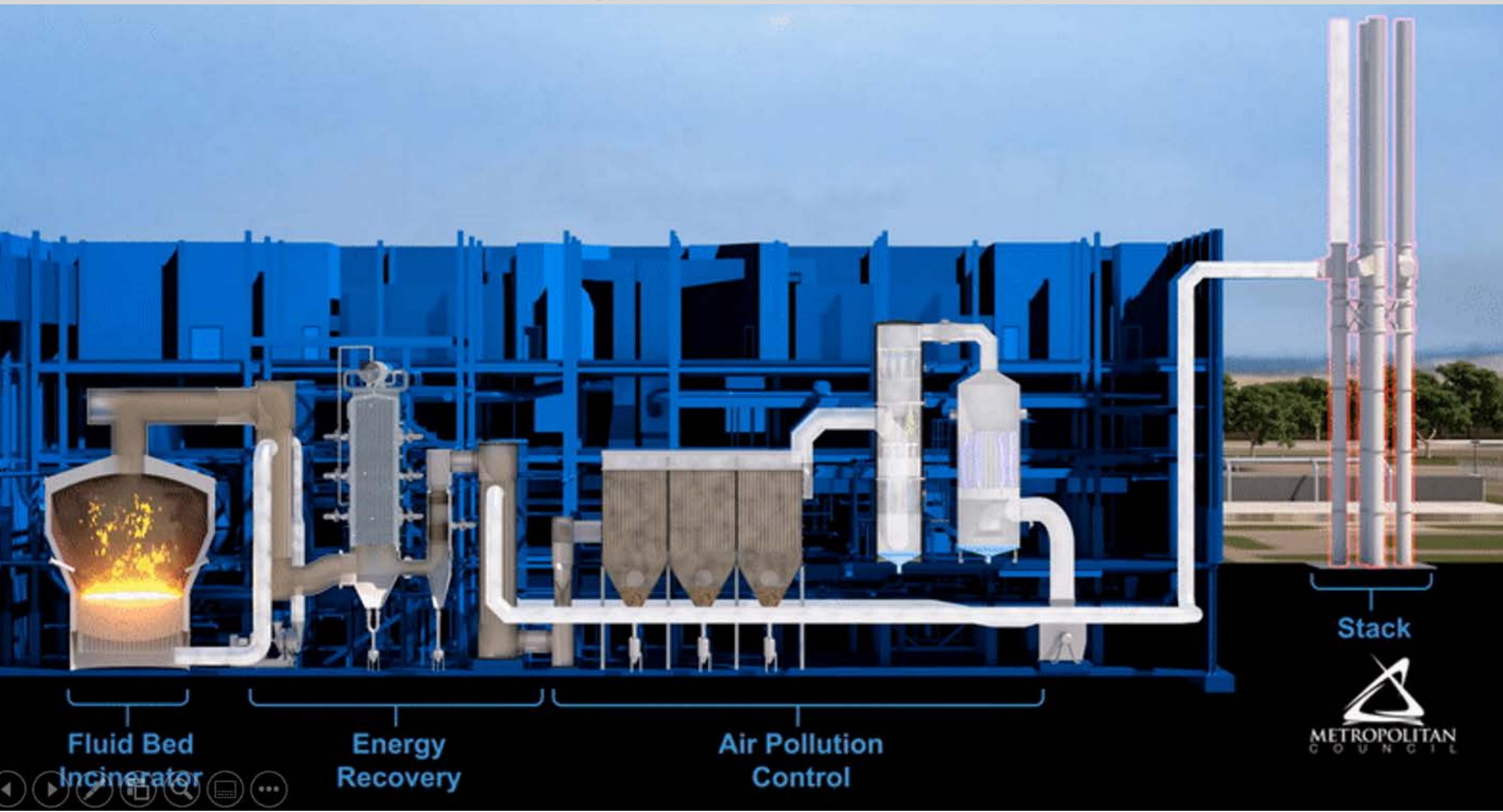
Fluidized Bed Incinerators



The Metro Plant has one of the most advanced and highest performing incineration systems in the country.

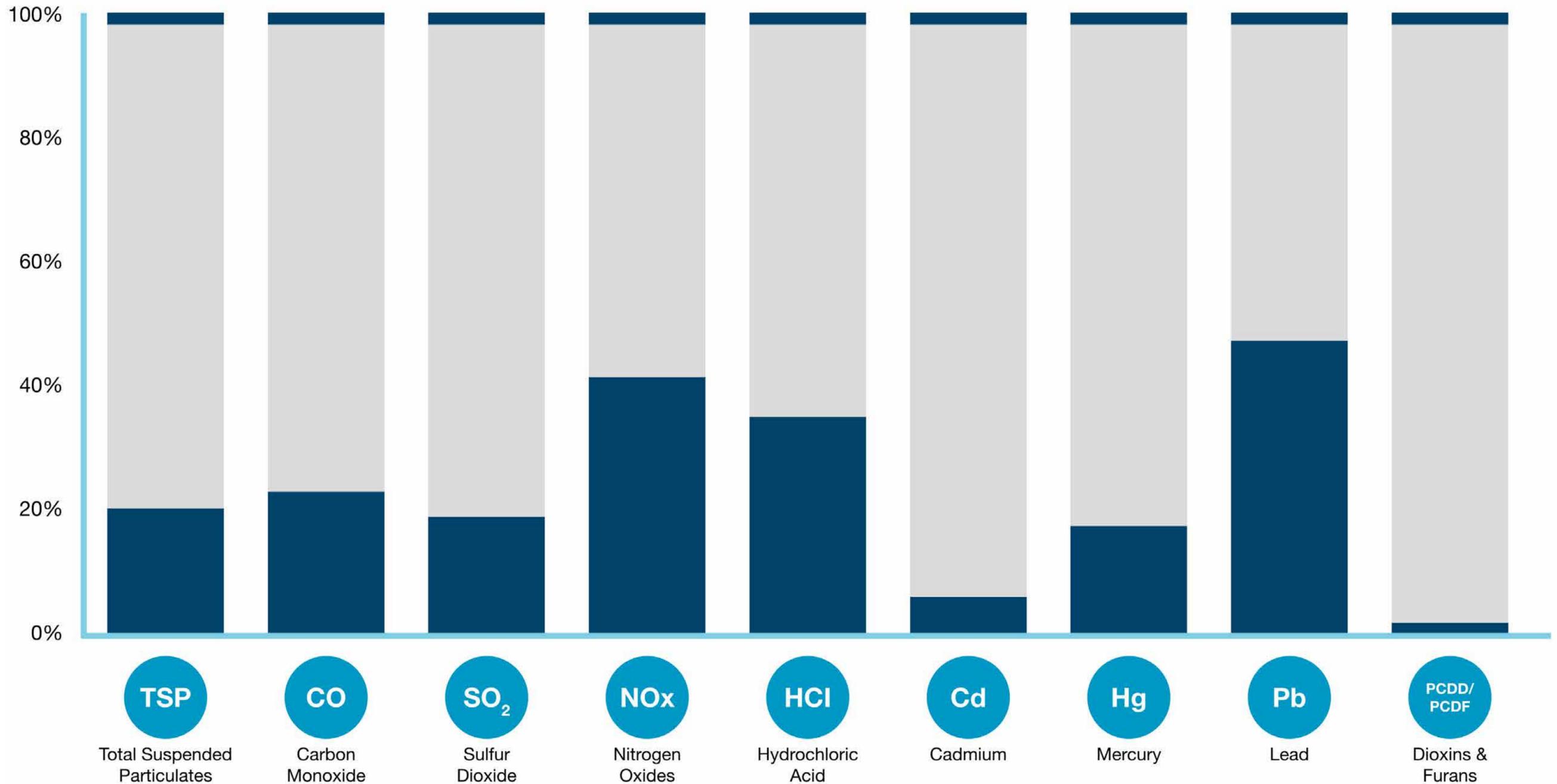
Existing Incinerator Trains

Fluid bed incineration, paired with energy recovery and state-of-the-art air pollution control, is a sustainable solution for treating wastewater solids.



Exceptional Air Quality

Metro Plant Incinerator Performance Compared to EPA Emission Standards for New Fluidized Bed Incinerators



The existing incinerators meet federal emission standards for existing and new fluidized bed incinerators.

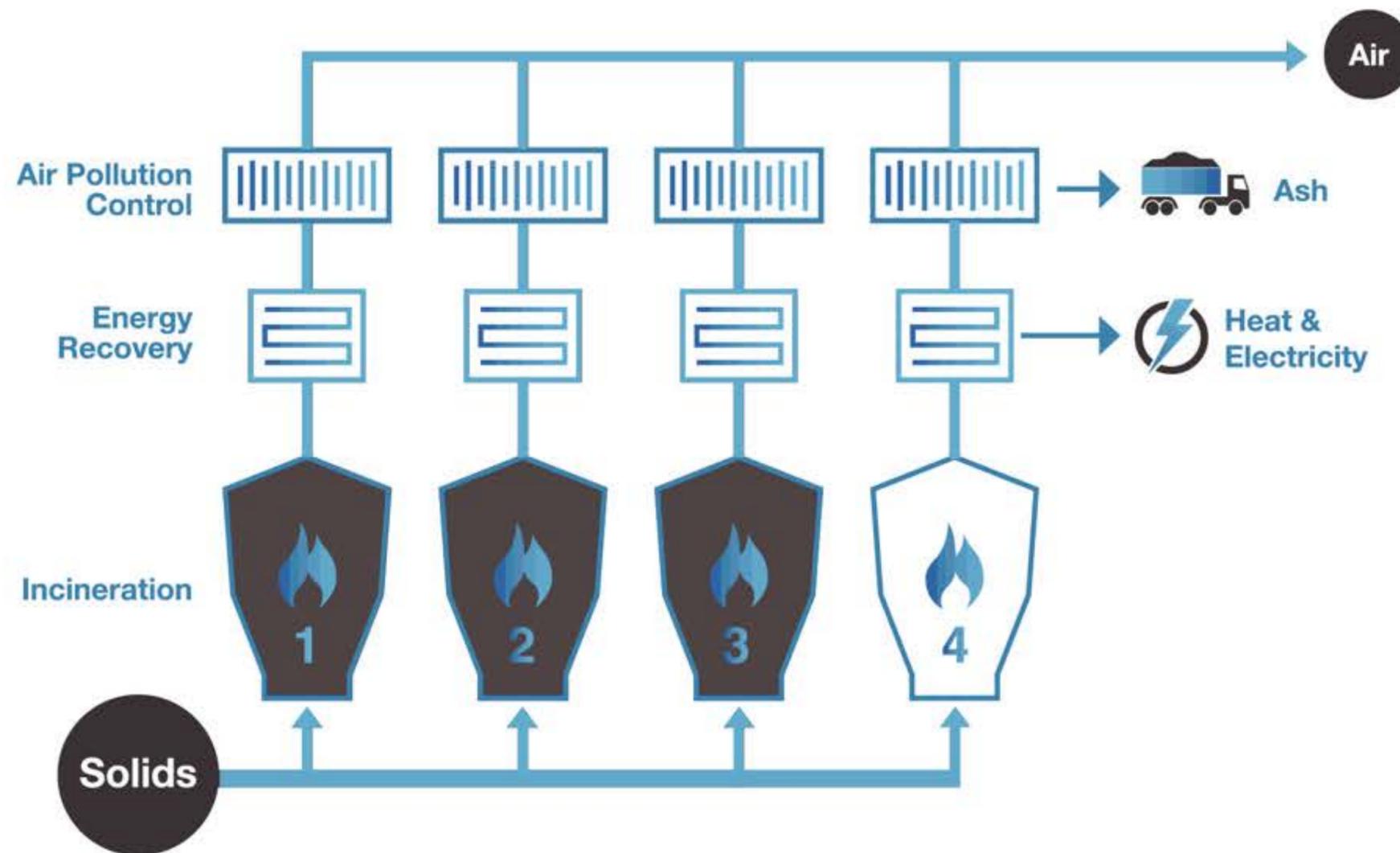
Project Scope

Stephen Norton

Principal Engineer

Project Manager

Program Overview



MCES will spend roughly \$200 Million on Metro Solids projects over the next eight years.

Project Scope

Site Work /
Building Additions

Cake
Feed

Fourth Incinerator
System

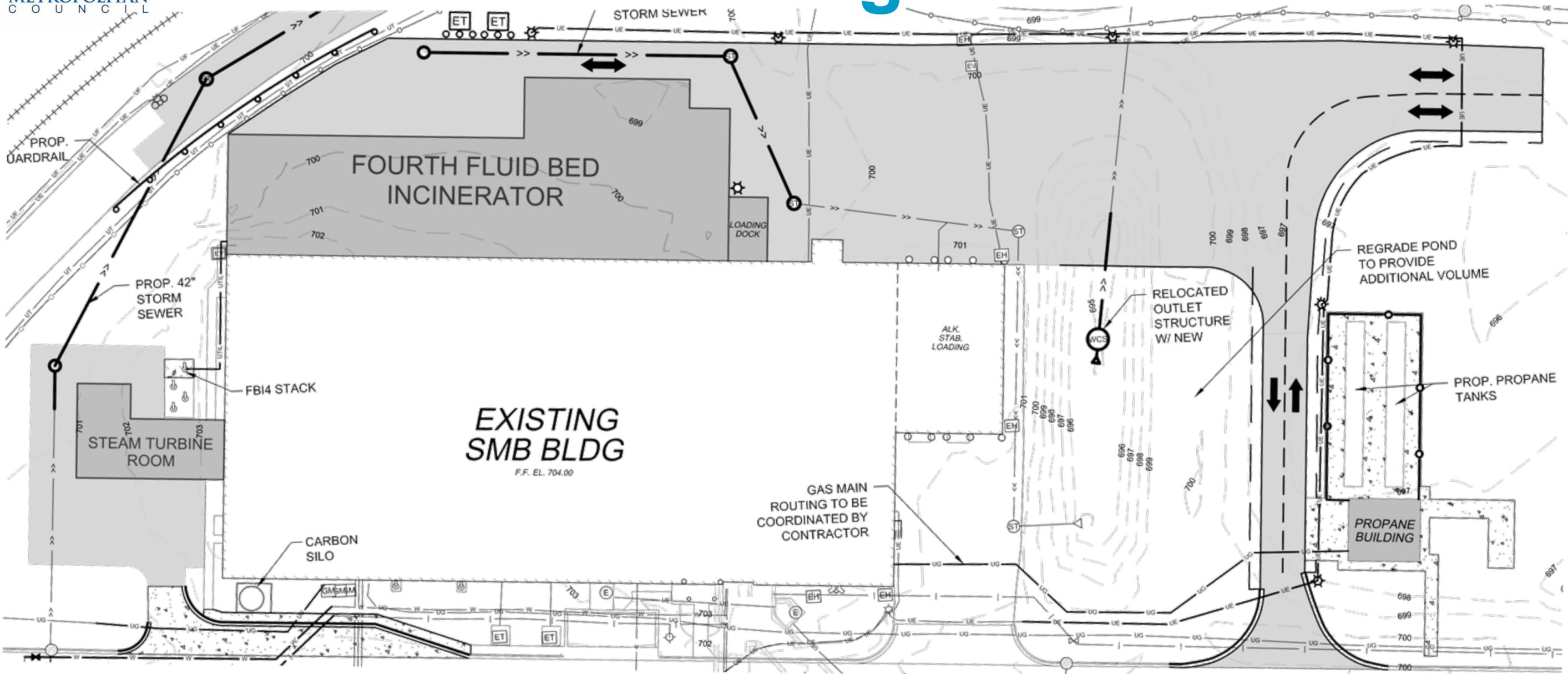
Steam Turbine
Generator

Support
Systems



The fourth incinerator will include 21,000 square feet in building additions.

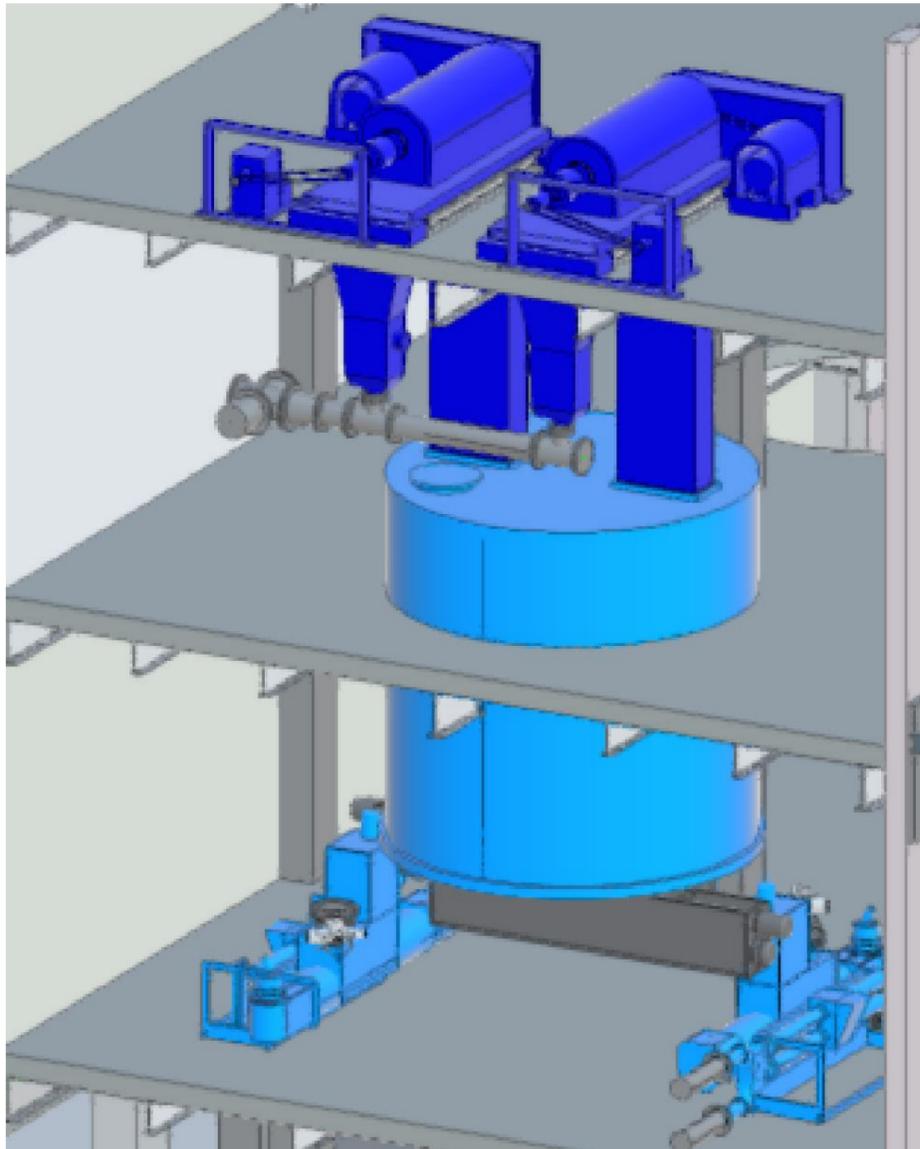
Site Work / Building Addition



Major Site Work / Building Items

- Building additions will require piles
- Reconfigure existing access road
- New third electrical feed from main substation
- Rerouting stormwater piping and pond
- New propane tank and feed system

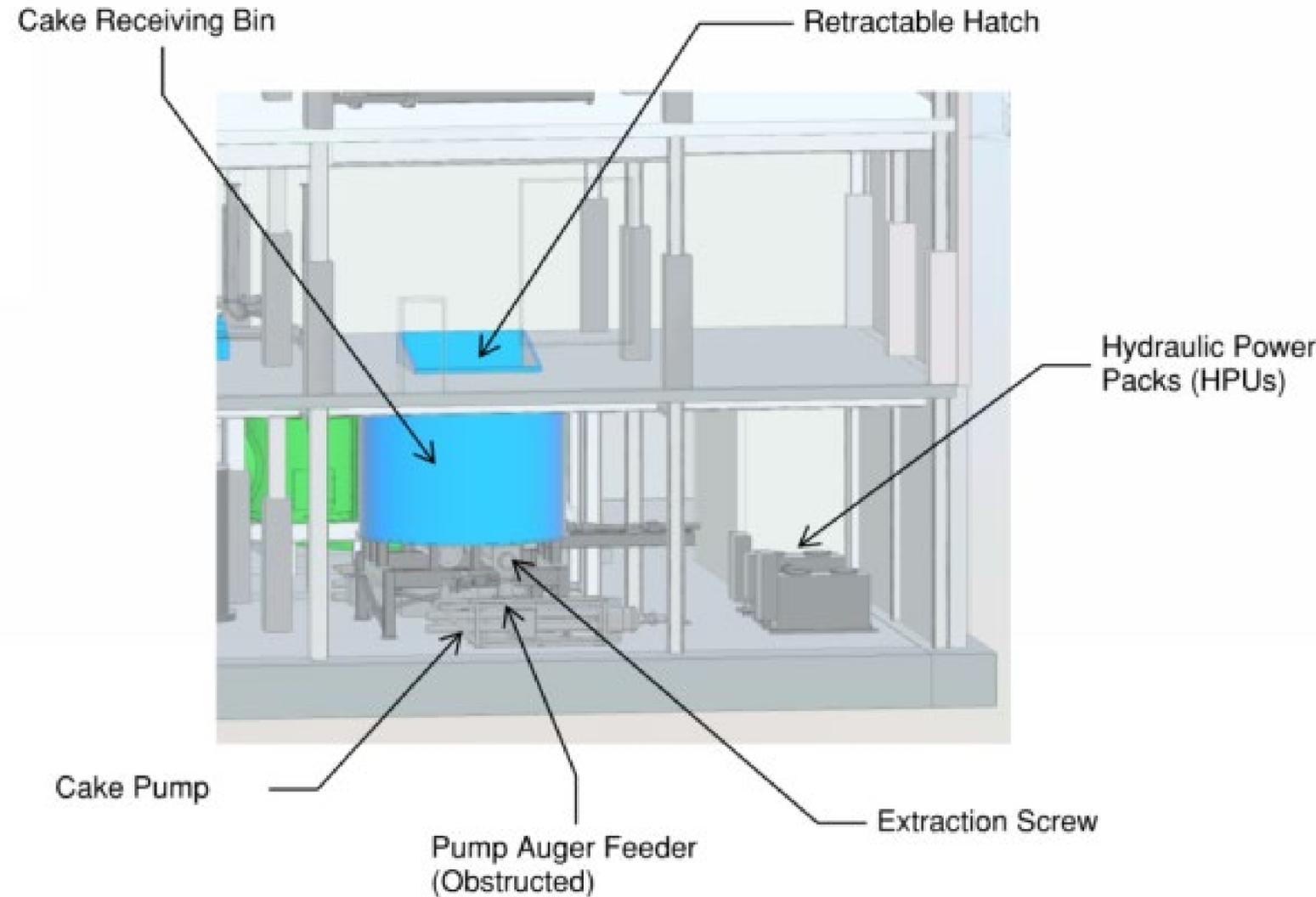
Cake Feed



Dewatering Layout

Major Dewatering Items

- Two centrifuge feed pumps
- Two polymer feed pumps
- Two centrifuges
- One cake bin and two cake pumps

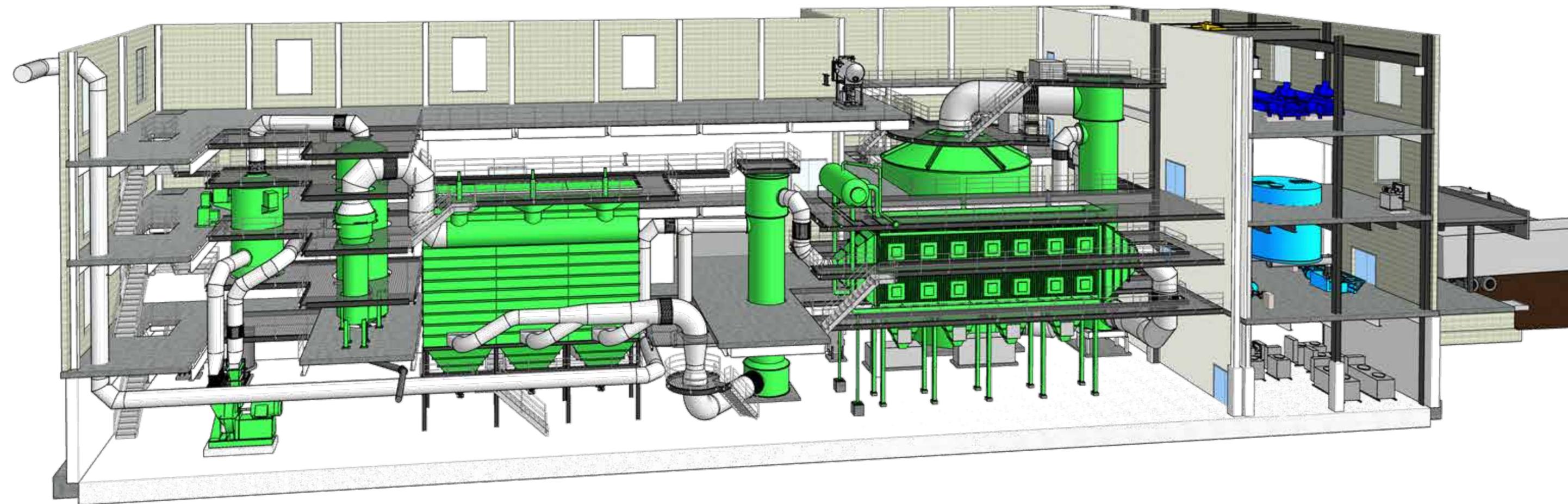


Cake Receiving Layout

Major Cake Receiving Items

- Emergency backup for MCES WWTPs
- One cake receiving bin and pump
- Odor control
- Piping and valves to four incinerators

Fourth Incinerator System

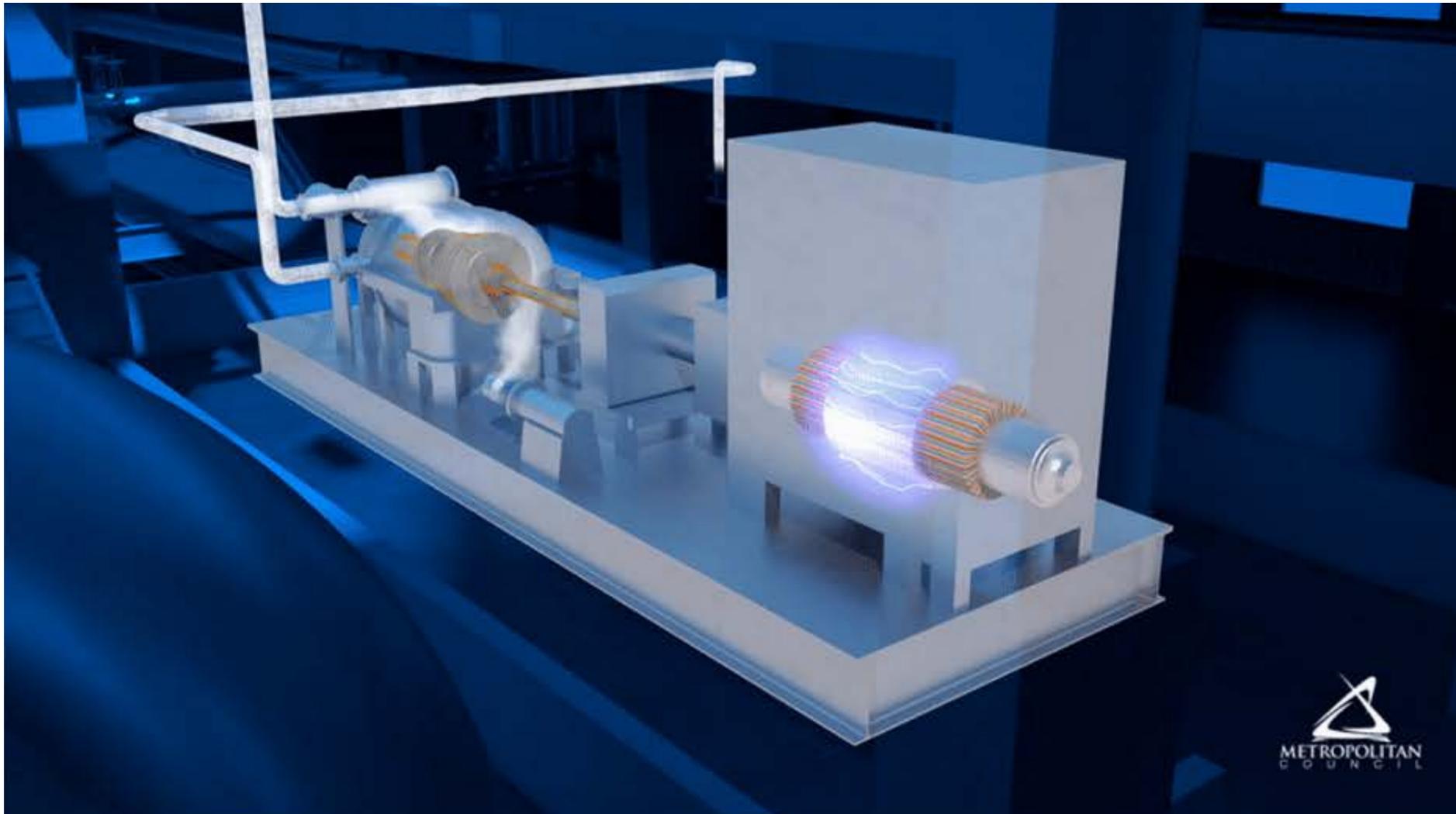


Major Incinerator System Items

- Sized for 130 dry tons per day
- Meet MACT standards for new fluid bed incinerators
- Horizontal waste heat boiler
- Improved materials of construction

A fourth incinerator with state-of-the-art energy recovery and air pollution controls, fully integrated with the existing incinerators

Steam Turbine Generator



Major Steam Turbine Generator Items

- Slab-on-grade building addition north of SMB with electrical rooms attached
- 1-MW to 7-MW capacity with 15 psi and 150 psi extraction zones
- Grade level condenser using effluent water

The energy recovered is used within the plant and saves customers roughly \$2.0 million per year.

Support Systems

Vacuum Ash Conveyance

- New ash vacuum system for all four incinerators.

Housekeeping Vacuum

- New blower and dust collector for ash housekeeping in SMB

Carbon Storage Silo

- New carbon silo on west of SMB

Sand Storage

- New sand booster station

Effluent Water

- Convert high pressure to low pressure system
- One new effluent pump
- Scrubber booster system at SMB

Boiler Feedwater

- One new desuperheater
- One new deaerator
- Two condensate pumps
- Two boiler feedwater pumps
- New boiler feedwater chemical and RO system for all incinerators

Propane System

- Two 60,000-gallon storage tanks and feed system for backup fuel

Auxiliary Condensers

- Two new auxiliary steam condensers

Ammonia System

- Provided if needed during commissioning

Procurement

Auburn Dees

Program Manager

Project Contract Administrator

Procurement Objectives

1. Single fixed-price design build contract
2. Best value selection of both Incinerator Vendor and Design Builder
3. Competitive and transparent process
4. Compliant with all applicable laws, regulations, and Council policies

Procurement Approach

1. Incinerator Vendor RFP

- a. Request qualifications and pricing commitment for goods and services and select single vendor based on best value
- b. Contract with vendor to support design builders during the Design-Build RFP
- c. Include vendor scope and fee in the Design-Build RFP
- d. Vendor to subcontract with the selected Design-Builder

2. Design-Build RFQ

- a. Shortlist the three most qualified proposers

3. Design-Build RFP

- a. Fixed price design-build request for proposal
- b. Selection based on best value

RFQ/RFP Advertisements

- Solicitation advertised on the Council's Contracting Opportunities page
- Register to receive email when new opportunities are posted
- Online RFP/RFQ document download and proposal submittal through QuestCDN
- Advertisement contains link to QuestCDN

How to Access Contracting Opportunities

www.metrocouncil.org

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TWIN CITIES REGION

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build a prosperous future.

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Council Invoice Payments	
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Real Estate Acquisition & Relocation Assistance	
Social Media	



DOING BUSINESS WITH THE COUNCIL

Contracts & Procurement

The Council frequently lists **contracting opportunities for businesses**. Interested parties are encouraged to regularly review the Council's list of publicly advertised solicitations for contracts.

- **What we buy & how we buy it**
- **Preparing & submitting a bid or proposal**
- **After award: Contract & reporting requirements**
- **See all current contracting opportunities**

Small Business Programs

The Council participates in **two small business programs**:

- **Disadvantaged Business Enterprise Programs (DBE)**
- **Metropolitan Council Underutilized Business Program (MCUB)**

New subcontracting policy and procedure

The Met Council recently updated the DBE/MCUB Subcontracting Policy and Procedure. Among other enhancements, the procedure change now requires bidders/proposers to submit DBE/MCUB documents at the time of bid. This will likely be a change in business practice and process for many of our bidders and proposers. Contact the Office of Equal Opportunity at DBE@metc.state.mn.us or [651-602-1163](tel:651-602-1163) if you have any questions regarding the new policy or procedure.

- **Disadvantaged Business Enterprise Subcontracting Policy and Procedure (PDF)**
- **Good faith efforts reference (PDF)**
- **Solicitation log (Excel file)**
- **Quotes received log (Excel file)**

How to Access Contracting Opportunities

For details about specific contacts, select the contract number to see the details in PDF format. For best results, use the latest version of [Acrobat Reader](#).

 [Sign up to receive email updates when new contracting opportunities are posted](#)



Requests For Proposals (RFP) and Invitations For Bids (IFB)

These opportunities include contracts with and without small business goals.

We try to ensure that information about contracts is current and accurate. However, the only information to be relied upon for a contract solicitation is the information that is distributed to persons listed with the Met Council as plan holders for that solicitation. [Learn how to register as a plan holder \(PDF\)](#).

Note:

- The non-refundable fee to download solicitation documents is \$6. Documents are viewable at no charge.
- [See FTA terms: clauses that may be included in the contract if the services or goods you provide are paid for with federal funds.](#)

Division	Number	Title/General Description	Issue Date	Due Date	Type
ES	21P214	Security Officer Services (Contracting - with Small Business Goal)	10/26/2021	11/30/2021	RFP
Transit	21P263	2022 SmartCard Procurement	10/28/2021	12/7/2021	IFB
MTS	21P225	Principal Arterial Intersection Mobility Study, Phase 2	10/29/2021	12/7/2021	RFP
ES	21P055	NEW Metro Plant Fourth Incinerator Design-Build Information Session	11/29/2021	12/8/2021	D/B

RFQ/RFP Process

- Carefully read and follow all instructions in the RFQ/RFP Documents
- Submit proposal online as a complete PDF or zip file containing all required documents as instructed
- Proposals are reviewed for responsiveness and responsibility
- An Evaluation Panel reviews and evaluates all proposals based on the Evaluation Criteria published in the RFP
- The Evaluation Panel determines the proposal most advantageous to the Council and makes a recommendation to award to the Council Selection Official

Metropolitan Council Underutilized Business (MCUB) Program

Amanda Beaulieu

Small Business Specialist



MCUB Program

- The Met Council is committed to utilizing businesses owned by socially and economically disadvantaged individuals in its procurement and contracting efforts.
- To support that commitment, the Met Council facilitates the MCUB program for locally funded projects.
- The Office of Equal Opportunity (OEO) will be setting a numeric MCUB goal on this project.

MCUB – Who is Included?

- Minnesota based firm
- Not a separate certification
- Includes existing certifications
 - Targeted Group Business (TGB), Dept of Administration
 - Veteran Owned Small Businesses, Dept of Admin or VA
 - Disabled Owned Small Businesses, Dept of Admin
 - Disadvantaged Business Enterprise (DBE), MNUCP
 - Central Certification Program (CERT), City of St Paul

MCUB Directory

- MCUB firms can be found listed in the MCUB directory
- <https://mcub.metc.state.mn.us/>
- Firms can be searched via NAICS codes and/or keyword searches – Please contact if you need assistance in using the directory

Next Steps

Rene Heflin

Plant Engineering Manager

Project Schedule

Anticipated Upcoming Key Dates

- Issue Incinerator Vendor RFP – January 2022
- Issue Design-Build RFQ – February 2022
- Issue Design-Build RFP – July 2022

2022					2023					2024					2025					2026																																							
J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
AIR PERMITTING / ENVIRONMENTAL REVIEW SCHEDULE																																																											
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Design-Build RFQ																																																											
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CONSTRUCTION SCHEDULE																																																											
										Design-Build Construction																																																	

Site Visits

The Council will be offering site visits in early January to those engineers and contractors interested in the project.

January 4, 2021

- 8:00 – 10:00 AM
- 10:00 – 12:00 PM
- 1:00 – 3:00 PM
- 3:00 – 5:00 PM

January 5, 2021

- 8:00 – 10:00 AM
- 10:00 – 12:00 PM
- 1:00 – 3:00 PM
- 3:00 – 5:00 PM

January 6, 2021

- 8:00 – 10:00 AM
- 10:00 – 12:00 PM
- 1:00 – 3:00 PM
- 3:00 – 5:00 PM



Scheduling Site Visits

Stephen Norton
651-602-1551

stephen.norton@metc.state.mn.us

Learn More & Contact Information



Web

www.metrocouncil.org/metrosolids



MCUB Questions

Amanda Beaulieu

651-602-1160

amanda.beaulieu@metc.state.mn.us



Procurement Questions

Auburn Dees

651-602-1346

auburn.dees@metc.state.mn.us



Project Questions

Stephen Norton

651-602-1551

stephen.norton@metc.state.mn.us

Questions

Closing

Rene Heflin

Plant Engineering Manager

