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.
Meeting Logistics

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After the meeting, the recorded video and presentation will be posted to the event page on the project website (www.metrocouncil.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.
Overview

Rene Heflin

Plant Engineering Manager
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.
Environmental Services

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

2005-Present  
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

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

Stephen Norton

Principal Engineer

Project Manager
MCES will spend roughly $200 Million on Metro Solids projects over the next eight years.
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
How to Access Contracting Opportunities

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 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

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.

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<thead>
<tr>
<th>Division</th>
<th>Number</th>
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<td>Security Officer Services (Contracting - with Small Business Goal)</td>
<td>10/26/2021</td>
<td>11/30/2021</td>
<td>RFP</td>
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<td>Transit</td>
<td>21P263</td>
<td>2022 SmartCard Procurement</td>
<td>10/28/2021</td>
<td>12/7/2021</td>
<td>IFB</td>
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<td>MTS</td>
<td>21P225</td>
<td>Principal Arterial Intersection Mobility Study, Phase 2</td>
<td>10/29/2021</td>
<td>12/7/2021</td>
<td>RFP</td>
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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/](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

<table>
<thead>
<tr>
<th>Year</th>
<th>Air Permitting / Environmental Review Schedule</th>
<th>Procurement Schedule</th>
<th>Construction Schedule</th>
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<tbody>
<tr>
<td>2022</td>
<td>MPCA Reviews Permit and EAW</td>
<td>Incinerator Vendor RFP</td>
<td>Design-Build Construction</td>
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<td></td>
<td>EPA Reviews SIP Revision</td>
<td>Design-Build RFQ</td>
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<td>2026</td>
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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
<table>
<thead>
<tr>
<th>Contact Information</th>
<th>Name</th>
<th>Phone</th>
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<tr>
<td><strong>Web</strong></td>
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<td><a href="http://www.metrocouncil.org/metrosolids">www.metrocouncil.org/metrosolids</a></td>
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<tr>
<td><strong>MCUB Questions</strong></td>
<td>Amanda Beaulieu</td>
<td>651-602-1160</td>
<td><a href="mailto:amanda.beaulieu@metc.state.mn.us">amanda.beaulieu@metc.state.mn.us</a></td>
</tr>
<tr>
<td><strong>Procurement Questions</strong></td>
<td>Auburn Dees</td>
<td>651-602-1346</td>
<td><a href="mailto:auburn.dees@metc.state.mn.us">auburn.dees@metc.state.mn.us</a></td>
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<td><strong>Project Questions</strong></td>
<td>Stephen Norton</td>
<td>651-602-1551</td>
<td><a href="mailto:stephen.norton@metc.state.mn.us">stephen.norton@metc.state.mn.us</a></td>
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Questions
Closing

Rene Heflin
Plant Engineering Manager