Metro Plant Solids Management Facility Plan

June 13, 2018 Open House
Welcome

Tim O’Donnell
Project Citizen Liaison
Open House Objectives

Share information about the Metro Plant Solids Management Facility Plan and how solids are processed at the Metro Plant.
Open House Agenda

Open House  15 Min

Presentation  30 Min

- Facility Plan
- How it Works
  - Wastewater Solids
  - Incineration
  - Energy Recovery
  - Air Pollution Control
- Summary & Questions

Open House  45 Min
Environmental Services

WHO WE SERVE
7-county Twin Cities Metro Area
109 communities
2,600,000 people

OUR FACILITIES
8 wastewater treatment plants
610 miles of interceptors
250 million gallons per day (avg)

OUR ORGANIZATION
600+ employees
$7 billion in valued assets
$140 million / yr capital program
MCES proposes construction of a fourth incinerator followed with renewal of existing incinerator facilities.

The Metro Plant has one of the most advanced and highest performing incineration systems in the country.
The Metro Plant needs additional solids processing capacity to:

Preserve Existing Wastewater Treatment Plant Infrastructure

Serve Regional Population Growth

The existing incinerators will be 20 years old in 2025.
Metro Plant Solids Management Facility Plan

Project Overview

Video
Alternatives Analysis and How it Works
Processing Wastewater Solids at the Metro Plant

Rene Heflin
Plant Engineering Manager
Adding a fourth incinerator costs 50% less to construct, operate, and maintain than any other alternative.
### Sustainability

- **Lowest Air Emissions**
- **Superior Energy Recovery**
- **Similar GHG Emissions**
- **Ash Reuse Potential**

*The fourth incinerator was found to be the most sustainable alternative.*
Wastewater Solids

How it Works

Processing Wastewater Solids at the Metro Plant

Video
How it Works
The Incineration Process at the Metro Plant

Peter Sandberg
Metro Plant Solids Business Unit Manager
Incineration

How it Works

The Incineration Process at the Metro Plant

Video
How it Works
Energy Recovery for Incineration at the Metro Plant

Stephen Norton
Senior Engineer
Energy Recovery

How it Works

Energy Recovery for Incineration at the Metro Plant

Video
How it Works
Air Pollution Control for Incineration at the Metro Plant

Dave Quast
Principal Engineer
Existing incinerators meet EPA emission standards for existing and new fluidized bed incinerators.
Metro Plant Solids Management Facility Plan

How it Works

Air Pollution Control for Incineration at the Metro Plant

Video
SUMMARY

Jeannine Clancy
Assistant General Manager
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.
A fourth incinerator provides the lowest impact to surrounding communities.
The fourth incinerator is the most cost-effective and sustainable alternative to meet the region’s wastewater needs.

It will have the lowest community impact, and will improve the reliability of the wastewater treatment system.
# Project Schedule

<table>
<thead>
<tr>
<th>Action</th>
<th>Timeframe</th>
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<tbody>
<tr>
<td>Public Outreach</td>
<td>4/23/18 – 6/26/18</td>
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<tr>
<td>Public Hearing for Facility Plan</td>
<td>8/30/18</td>
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<tr>
<td>Council Adopts Facility Plan</td>
<td>9/26/18</td>
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<tr>
<td>Design &amp; Permitting</td>
<td>2019-2020</td>
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<tr>
<td>Fourth Incinerator Construction</td>
<td>2021-2024</td>
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<tr>
<td>Existing Incinerator Renewal</td>
<td>2025-2027</td>
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Providing Feedback

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Public Hearing: August 30, 2018*
Pending Council Approval