GAS-TO-ENERGY PROJECT

Salt Lake Valley Landfill

Photo: Gary O. Merrill, GM, Murray City Power (Jan. 2006)

Salt Lake City, Utah

General Background

- Jointly Owned by Salt Lake City and Salt Lake County
- Subtitle “D” Landfill
- Landfill opened in 1993 at current location

Landfill Information

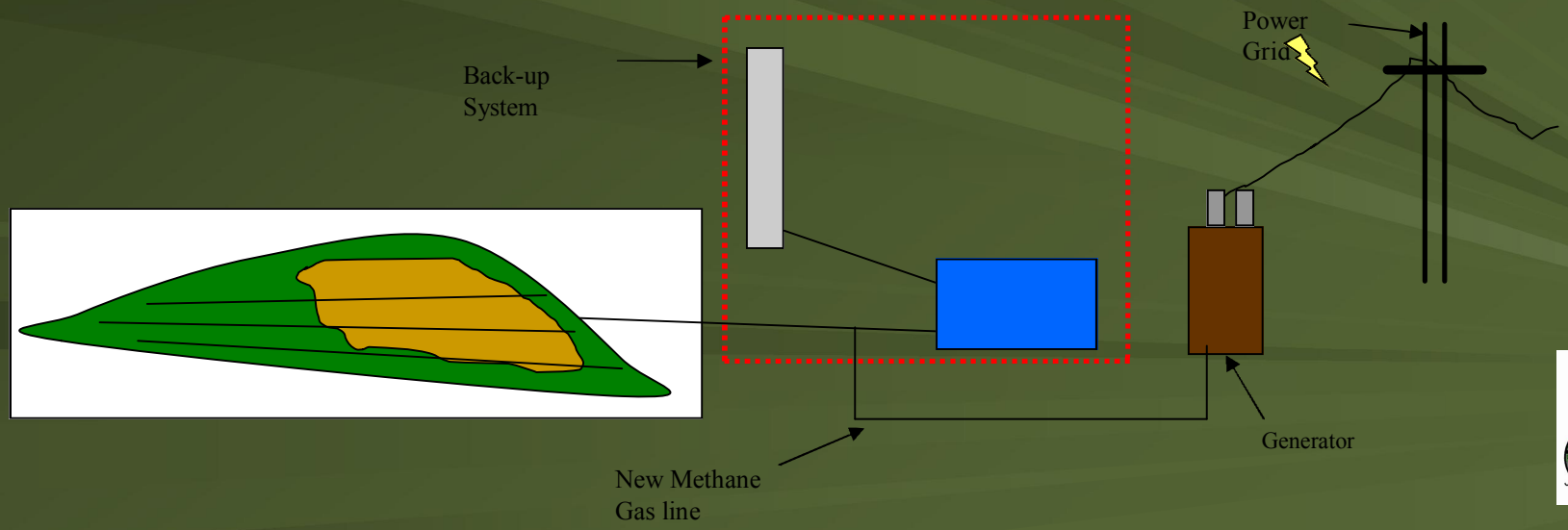
- 9 million TOTAL tons
- 7 of 11 Modules constructed
- Nearly 50 year estimated life
- 500 acre site
- 54 employees

Landfill Services Overview

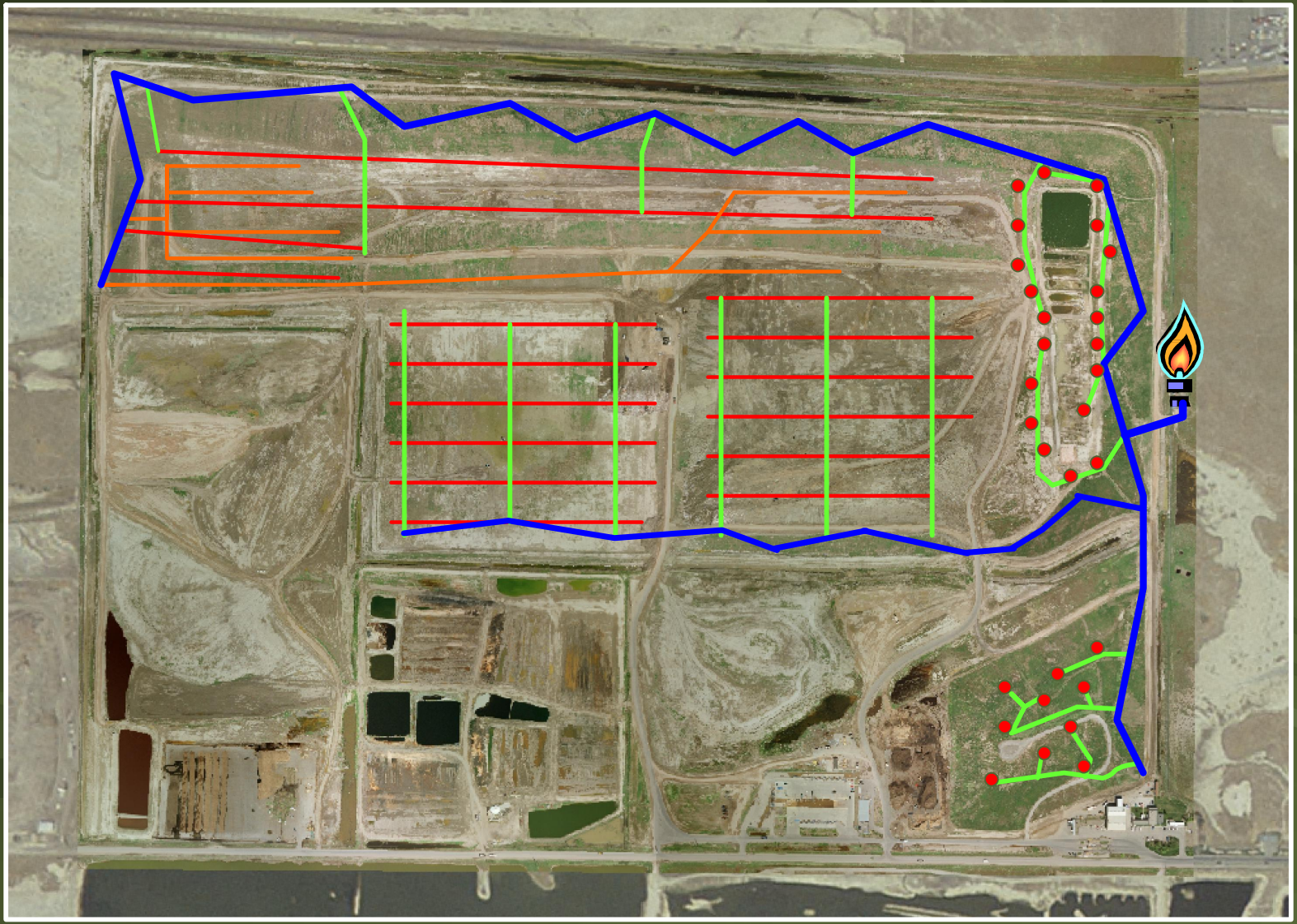
- Disposal of Municipal Solid Waste
- Citizen Unloading Facility
- Household Hazardous Waste Facility
- Recycling Information and Outreach Program
- Composting Operation
- CFC Removal Program
- Asbestos acceptance

Landfill Gas Collection System

- Control System Description:
  - 34 Vertical Gas extraction wells
  - >15,000 linear feet of horizontal collection pipe
  - >10,000 feet of perimeter header pipe lines
  - Flare Station (until August 2006)



GCCS – System Overview



Flare Station

Power Plant

Power Plant Details

- Operated by Landfill Energy Systems
- Landfill gas (Methane - 55%)
  Fuels Large Catepillar Engines
- Power Plant operates at near capacity of 3.2 Megawatts
- 2,000+ homes
- Murray City is beneficiary of Power

Power Plant Open House

Environmental Benefits

Annual Total Equivalent Emissions Reduced:

- Removing emissions equivalent to 26,700 vehicles.
- Planting 38,000 acres of forest.
- Offsetting the use of 682 railcars of coal.
- Averting electricity usage of 250,000 lightbulbs.

Calculated from: www.epa.gov/lmop

Special Thanks to:

- SLVSWF Landfill Council
- Salt Lake City
- SL County
- Operations Staff
- Environmental Compliance Staff
- Recycling Information Office
- SL Valley Health Department
- Murray City
- Landfill Energy Systems
- Kleinfelder, Inc.

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