



Winn-Marion's Heat Trace System Audit is a comprehensive assessment to ensure system reliability. This detailed analysis is an essential maintenance tool that provides an opportunity to address heat trace issues and prevent costly downtime.



# HEAT TRACE SYSTEM AUDIT

## INDUSTRIES INCLUDE

- Power
- Chemical
- Oil and Gas
- Petrochemical
- Wastewater Treatment
- Pulp and Paper
- Pharmaceuticals
- Renewables
- Mining



## BENEFITS:

- Heat Trace Experts since 1972
- Preventive maintenance to avoid unexpected system outage.
- Identify problems due to poor design and improper installation.
- System optimization to increase ROI
- Train personnel on heat trace system to perform basic heat trace maintenance.
- Updated documentation to reflect current field as-built status.
- Pre-season freeze protection startup.

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# HEAT TRACE SYSTEM CHECKLIST

Winn-Marion's Heat Trace Audit Report for your system will include:

- Detailed observations and test results
- Budget estimate to repair the heat tracing system
- Photographs of potential issues
- Recommendations to improve performance
- Existing and potential risk factors
- Proactive maintenance procedures for optimization

## TESTS PERFORMED FOR AUDIT:



### Insulation Resistance (IR) Test

*Ensures electrical resistance integrity on heat tracing circuits*



### Heat Trace Panel Analysis

*Verifies control panel programming and terminations to ensure proper functioning*



### Power Operational Test

*Electrical voltage, current and fault check on heating circuits*

## OTHER ASSESSMENTS

- Pre-Insulated tube bundle inspection
- Thermal Insulation inspection
- Heat Trace system installation inspection
- Heated enclosure inspection
- Temperature controller/thermostat test
- Electrical wire connection inspection
- Conduit distribution system and fittings
- Heat Trace Safety check



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Pipe/Vessel Heating



Instrument Heating



Control/Communications