



Thermal Solutions, Inc  
2 Cessna Ct  
Greenville, SC 29607

## **Annual NFPA 86 Audit Preview**

The Thermal Solutions, Inc. Annual NFPA 86 Safety Audit consists of performing the following functions:

- A detailed visual inspection of all relevant equipment will be completed for both existence of the required NFPA 86 components and their condition throughout the entire combustion system. A general overview of the plant process flow and control concept will also be noted and considered during this step.
- Documentation of all safety device set points & parameters for existing operation.
- Leak (bubble) testing of Safety and Manual Shut Off Valves to ensure acceptable tightness.
- Checking the trip point for all safety circuit pressure, temperature and limit switches while verifying the set point is within code recommendations.
- Verification that each safety limit device interrupts the safety circuit when tripped, and that the interruption properly shuts down the burner system and then requires manual intervention before a restart.
- Review of BMS schematics to assure code compliance in the wiring of the safety limit and purge circuits. If a PLC is present, BMS interaction with the PLC will be evaluated.
- A review of site and company practices will be conducted via interview of personnel and available documentation for the purpose of determining the existence and compliance of the following files:
  1. The previous year's annual NFPA audit including leak and limit testing documentation
  2. A documented Preventative Maintenance program (Regularly performed PM).
  3. The existence and availability of Standard Operating Procedures (SOP's).
  4. A review of the existing electrical, piping, & instrumentation schematics
- Once the onsite Audit has been completed, a review of the findings will be provided in the form of a report which can be used to satisfy the documentation retention part of the code.
- The findings will include recommendations on how to get to current code if there are any deficiencies identified.
- A second visit can be made to review the recommendations and provide a proposal for us to help you overcome any code failures.



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## **In Preparation for an NFPA Audit**

- A means of payment must be provided to solidify the scheduling of the onsite Audit: i.e. a Purchase Order (PO), Credit Card, or Other.
- All documentation required from Thermal Solutions, Inc. including, but not limited to, insurance certificates & vendor compliance documentation must be requested in advance. Field Service Technicians can not provide this information and the lack of documentation may delay the ability to begin the onsite Audit.
- Advance notice / request must be provided for Site Safety Policies, Required Safety Training, Site PPE Required, & any other Regulations necessary to gain access to the equipment to perform the Audit.
- Any available Electrical, Piping, & Instrumentation schematics should be provided in advance of the Audit for Technician preparation and efficiency during the onsite Audit.
- All SOP's, PM Program, & previous testing documentation should be gathered for discussion by the site contact prior to the Technician's arrival for the onsite Audit.
- During the time that an onsite Audit is to be performed, the subject equipment must be made available to start/stop and run at the technician's discretion. This means the equipment will not be able to run normal production during the audit.
- An experienced operator or maintenance technician of the subject equipment is requested to be available during the entire audit process to assist in Start, Stop, & Operation of the equipment during testing. The operator's presence will aide in Audit efficiency, as well as being able to provide the Technician with equipment access, site policy compliance information, and historical information of both the equipment & process. This request is strongly encouraged.
- Best Practice: For the Designated Site Contact & the Assigned Auditing Technician to communicate once the Audit has been scheduled to ensure that preparations are adequate to perform the onsite Audit.

Safety, as well as providing Experienced Service with integrity is part of Our Core Values at Thermal Solutions, Inc. Please feel free to contact our staff to assist you with any phase of the Audit process and with all of your combustion related needs.