

# Equipment Maintenance Plan

*A Brief Overview of Coverage (DRAFT)*



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# Preventive Maintenance

- Routine equipment inspections are essential to...
  - Maintain boiler system operating conditions
  - Regulate and prepare safety measures
- Preventive maintenance negates equipment failures
- Practicing proactive analysis and repairs result in:
  - Reduced downtime and emergency service costs
  - Improved machine efficiency



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# Equipment Maintenance Plan

- A fully customizable scheduled service agreement
  - Routine visits for inspections by credited experts
  - Priority repairs and services to improve boiler condition
  - Investing in equipment increases boiler lifespan
- Multiple visit frequency options:
  - Monthly, Quarterly, Semi-Annual, and Annual visits available
- Multiple term length options:
  - Contracts can last up to FIVE (5) years



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# Annual Plan Coverage

- Core Coverage: One visit a year covering:

## Combustion and Controls

- Inspect all actuators & motors for abnormal operation
- Inspect all lights, indicators, & alarms for functionality
- Inspect & clean all burner traps & strainers
- Inspect atomizing media equipment
- Inspect boiler & burner components for wear
- Inspect burner flame pattern
- Inspect firing rate control
- Inspect flue, vent, stack, & outlet dampers
- Inspect fuel nozzles & fuel outlet orifices
- Inspect fuel train(s), regulator(s), & valves
- Inspect diffuser positioning
- Perform a pilot turndown test
- Perform leak test on pilot & fuel train(s)
- Test & reset combustion
- Inspect gauges, monitors, & indicators
- Inspect igniter for damage & wear
- Inspect inlet & outlet dampers
- Inspect instruments & equipment settings
- Inspect linkage, drive arms, & damper connections for wear
- Inspect main fuel safety shutoff & vent valves for leakage
- Inspect pilot & main fuel flame signal strength
- Inspect pilot line, regulators, & valves
- Inspect the blower motor operation
- Inspect the diffuser & burner components for wear
- Test atomizing medium interlocks & set points
- Test burner position interlocks
- Test combustion air proving switch
- Test damper position interlocks

*And more...*

*Visit online for full packet*



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# Semi-Annual\* Plan Coverage

- Adjusted Principal Coverage: One visit a year covering:

## Combustion and Controls

- Inspect all actuators & motors for abnormal operation
- Inspect all lights, indicators, & alarms for functionality
- Inspect & clean all burner traps & strainers
- Inspect atomizing media equipment
- Inspect boiler & burner components for wear
- Inspect burner flame pattern
- Inspect firing rate control
- Inspect flue, vent, stack, & outlet dampers
- Inspect fuel nozzles & fuel outlet orifices
- Inspect fuel train(s), regulator(s), & valves
- Inspect diffuser positioning
- Perform a pilot turndown test
- Perform leak test on pilot & fuel train(s)
- Test & reset combustion
- Inspect gauges, monitors, & indicators
- Inspect igniter for damage & wear
- Inspect inlet & outlet dampers
- Inspect instruments & equipment settings
- Inspect linkage, drive arms, & damper connections for wear
- Inspect main fuel safety shutoff & vent valves for leakage
- Inspect pilot & main fuel flame signal strength
- Inspect pilot line, regulators, & valves
- Inspect the blower motor operation
- Inspect the diffuser & burner components for wear
- Test atomizing medium interlocks & set points
- Test burner position interlocks
- Test combustion air proving switch
- Test damper position interlocks

*And more...*

*Visit online for full packet*

*\*Same features available with Quarterly visit selection*



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# Quarterly\* Plan Coverage

- Principal Coverage: One visit a year covering:

## Combustion and Controls

- Inspect all actuators & motors for abnormal operation
- Inspect all lights, indicators, & alarms for functionality
- Inspect & clean all burner traps & strainers
- Inspect atomizing media equipment
- Inspect boiler & burner components for wear
- Inspect burner flame pattern
- Inspect firing rate control
- Inspect flue, vent, stack, & outlet dampers
- Inspect fuel nozzles & fuel outlet orifices
- Inspect fuel train(s), regulator(s), & valves
- Inspect diffuser positioning
- Perform a pilot turndown test
- Perform leak test on pilot & fuel train(s)
- Test & reset combustion
- Inspect gauges, monitors, & indicators
- Inspect igniter for damage & wear
- Inspect inlet & outlet dampers
- Inspect instruments & equipment settings
- Inspect linkage, drive arms, & damper connections for wear
- Inspect main fuel safety shutoff & vent valves for leakage
- Inspect pilot & main fuel flame signal strength
- Inspect pilot line, regulators, & valves
- Inspect the blower motor operation
- Inspect the diffuser & burner components for ear
- Test atomizing medium interlocks & set points
- Test burner position interlocks
- Test combustion air proving switch
- Test damper position interlocks

*And more...*

*Visit online for full packet*

*\*Same features available with Semi-Annual visit selection*



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# Monthly Plan Coverage

- Principal Coverage: One visit a year covering:

## Combustion and Controls

- Inspect all actuators & motors for abnormal operation
- Inspect all lights, indicators, & alarms for functionality
- Inspect & clean all burner traps & strainers
- Inspect atomizing media equipment
- Inspect boiler & burner components for wear
- Inspect burner flame pattern
- Inspect firing rate control
- Inspect flue, vent, stack, & outlet dampers
- Inspect fuel nozzles & fuel outlet orifices
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*And more...*

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# Term Selection Options

- Once coverages are selected, choose the length of the contracted services!

**5**  
YEARS

## Five Year Membership Plan

- Fixed labor rate for three (3) years
- 15% discount on parts for any equipment
- Two (2) free training classes at a local seminar
- Priority scheduling benefits

**3**  
YEARS

## Three Year Membership Plan

- Fixed labor rate for two (2) years
- 10% discount on parts for equip. in contract
- One (1) free training class at a local seminar
- Priority scheduling benefits

**2**  
YEARS

## Two Year Membership Plan

- Fixed labor rate for two (2) years
- 5% discount on parts for equip. in contract
- Priority scheduling benefits

**1**  
YEAR

## One Year Membership Plan

- 5% discount on parts for equip. in contract
- Priority scheduling benefits

CHOOSE YOUR  
PLAN

*And more...*

*Visit online for full packet*



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# EMP Coverage Applied

- Once customized and finalized, we'll do the rest!
  - Complete on-site boiler inspections on schedule
  - Provide necessary repairs to the system and components
  - Monitor conditions and analyze proactive measures
- Investing in your equipment increases its lifespan
- Enjoy worry-free operations with R.F. MacDonald Co.  
as your single source partner for all boiler needs!



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# Recommended Slide Order

- Introduce Topic
- Topic Preview or Speaker's Background (or both)
- Present Topic in Segmented Chapters
- Close with Q&A
- \*Contact Info for speaker or office(s)
- \*Bonus Slides with extra graphs or pics

*\* Only if presenter deems necessary*

*+ This is just a recommendation, presenter has final say*

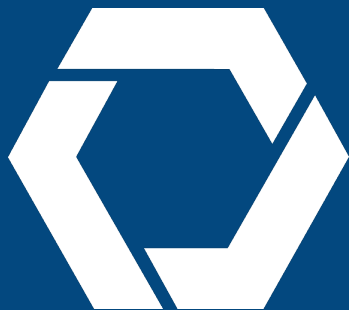


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# Questions?

*Please ask at this time*