

# Maryland Boiler and Pressure Vessel Inspection Unit

## Quick Reference Guide

This guide is meant to provide all of the valid lookup options and other data submission tips to use when submitting boiler and pressure vessel reports to the State of Maryland.

### Tips:

- Valid jurisdiction number formats are as follows: "MD" + 6 digits (leading zeros if necessary) + one-character suffix. The appropriate suffix is based on use and can be found in the Use Description tables.

- If object has no National Board Number (eg. Cast Iron, Special, or Nonstandard), enter NONE in the Nat Board Number field.
- When fully documenting an object with an "Exempt" status in the COMMENTS section, please include the reference to Law, Reg or Code which permits the exemption.
- Whenever choosing an option of "Other" or one including the phrase "w/comment", please explain fully in the COMMENTS field.
- For Pressure Vessel object uses, use the Vertical or Horizontal Pressure Vessel options ONLY if the use is not listed elsewhere.

- When fully documenting a variance or exception in the COMMENTS section, please use one of the following options, and include any code numbers or letter dates. Options include "Board Variance granted", "Chief Approval granted", "Commissioner Approval granted", or "Pending".
- For object uses, use the "Heating-Other", "Power-Other" and "Portable" options ONLY if the object is NOT an Antique, Model, Locomotive, Traction, Amusement Ride, or Nuclear

### BOILER LOOKUP OPTIONS

Type Description
Cast Iron
Horizontal Fire Tube
Horizontal Water Tube
Vertical Fire Tube
Vertical Water Tube
Vertical Tubeless
Water Tube Coiled (Flueless Hi Efficiency)
Water Tube Coiled (NOT Flueless Hi Efficiency)
Water Heater (HLW)
Electric (NOT HLW)
Fired Superheater
Fired Kettle
Miniature Boiler (NOT Fired Kettle)
Non-aqueous w/comment
Piping (B31.1) w/comment
Piping (B31.3) w/comment
Other w/comment

Fuel Description
Natural Gas
Oil
Oil / Natural Gas
Oil / LPG Gas
LPG Gas
Electric
Waste Heat
Coal (Lump)
Coal (Pulverized)
Coal / Gas
Coal / Oil
Coal / Wood
Sawdust
Wood
Wood / Natural Gas
Wood / LPG Gas
Wood / Oil
Biomass (refuse) w/comment
Biomass (other) w/comment
Solar
Nuclear
Other w/comment

Use Description
H – Hot Water Heat (Water <= 160 psig, 250 F)
H – Hot Water Supply (Water <= 160 psig, 250 F)
H – Hot Water Supply (Water <= 160 psig, 210 F)
H – Non-aqueous Lo Temp Lo Press w/comment (Fluid <= 160 psig, 250 F)
H – Steam Heat (Steam <= 15 psig)
H – Heating-Cooking (Steam <= 15 psig)
H – Heating-Sterilizing (Steam <= 15 psig)
H – Heating-Other w/comment (Stm <= 15 psig or Water <= 160 psig, 250 F)
S – Power-Cooking (Steam > 15 psig)
S – Power-Sterilizing (Steam > 15 psig)
S – Power-Ironing (Steam > 15 psig)
S – Power-Electric Generation (Steam > 15 psig)
S – Power-Other w/comment (Stm > 15 psig)
S – Hi Temp Hi Press Water (Water > 160 psig, 250 F)
S – Non-aqueous Hi Temp Hi Press w/comment (Fluid > 160 psig, 250 F)
A – Antique w/comment
M – Model w/comment
P – Portable w/comment
R – Amusement Ride w/comment
N – Nuclear w/comment
L – Locomotive NOT ANTIQUE
T – Traction NOT ANTIQUE
O – Other (Blr Use) w/comment

Fuel Train Description
CSD-1
NFPA 85
NFPA 31
IRI
FM
ANSI Z95.1
ANSI Z21.13
ANSI Z21.56
ANSI Z21.10.3
CSA
Other w/comment
Not Available At This Time w/comment

Firing Method Description
Automatic
Manual
Unfired
Other w/comment

ASME Stamp Description
H - Cast Iron Heating Boiler
H - Heating Boiler
HLW - Lined Potable Water Heater
S - Power Boiler
A - Assembly, Power Boiler
E - Electric Boiler
M - Miniature Boiler
MD Non Standard w/comment
MD Special w/comment
U - Pressure Vessel, Div 1
UM - Pressure Vessel, Miniature
U2 - Pressure Vessel, Div 2
U3 - Pressure Vessel, Div 3
N - Nuclear Component
N3 - Nuclear Component
NA - Nuclear Assembly
NPT - Nuclear Partial
PP - Power Piping
T - Transport Tank
Other w/comment

Relief Device Capacity Units
BTU/HR
LB/HR or PPH
LB STEAM/HR
LB STEAM/MIN
CFM
GPM
GPH
LB AIR/HR
LB AIR/MIN
K-FACTOR w/comment

Status Description
Active
Inactive
Scrapped
Exempt w/comment
Lost w/comment

Inspection Type Description
External
Internal
Accident
COS

# Maryland Boiler and Pressure Vessel Inspection Unit

## PRESSURE VESSEL LOOKUP OPTIONS

Type Description
Vertical Unfired Pressure Vessel w/comment
Horizontal Unfired Pressure Vessel w/comment
Steam Coil Water Heater
Autoclave
Unfired Kettle
Unfired Superheater
Heat Exchanger - Shell and Tube
Heat Exchanger - Steam Generator
Heat Exchanger - Plate
Heat Exchanger - Other w/comment
Miniature Pressure Vessel
Dryer Can
Fired Press Vess w/comment
Other w/comment

Fluid Description
Air
Air and Water
Air and Oil
Inert Gas and Oil w/comment
Oil - Lube
Oil - Fuel
Oil - Hydraulic
Refrigerant
Water - Cold
Water - Hot
Water and Steam
Nitrogen (as gas)
Nitrogen (as liquid)
Oxygen (as gas)
Oxygen (as liquid)
Carbon Dioxide (as gas)
Carbon Dioxide (as liquid)
Argon (as gas)
Argon (as liquid)
Hydrogen (as gas)
Hydrogen (as liquid)
Natural Gas (as gas)
LNG (liquid natural gas)
LPG (as gas)
LPG (as liquid)
Ammonia (as gas)
Ammonia (as liquid)
Other Gas w/comment
Other Liquid w/comment

Use Description
V - Storage (NOT Cryogenic)
V - Storage (Cryogenic)
V - Process-Drying
V - Process-Sterilizing
V - Process-Cooking
V - Process-Vulcanizing
V - Process-Ironing
V - Process-Heat Transfer-Feedwater Heater
V - Process-Heat Transfer-Other w/comment
V - Process-Deaerating
V - Process-Reactor/Digester
V - Process-Filter/Strainer
V - Process-Separator
V - Process-Vaporizer
A - Antique w/comment
M - Model w/comment
R - Amusement Ride w/comment
N - Nuclear w/comment
P - Portable w/comment
O - Other (PV Use) w/comment

ASME Stamp Description
U - Pressure Vessel, Div 1
UM - Pressure Vessel, Miniature
U2 - Pressure Vessel, Div 2
U3 - Pressure Vessel, Div 3
T - Transport Tank
MD Non Standard w/comment
MD Special w/comment
H - Cast Iron Heating Boiler
H - Heating Boiler
HLW - Lined Potable Water Heater
S - Power Boiler
A - Assembly, Power Boiler
E - Electric Boiler
M - Miniature Boiler
N - Nuclear Component
N3 - Nuclear Component
NA - Nuclear Assembly
NPT - Nuclear Partial
PP - Power Piping
Other w/comment

Relief Device Capacity Units
CFM
GPM
GPH
LB AIR/HR
LB AIR/MIN
BTU/HR
LB/HR or PPH
LB STEAM/HR
LB STEAM/MIN
K-FACTOR w/comment

Status Description
Active
Inactive
Scrapped
Exempt w/comment
Lost w/comment

Inspection Type Description
External
Internal
Accident
COS

## Maryland Boiler and Pressure Vessel Inspection Unit

BOILER VIOLATIONS		
Code	Category	Subcategory
1.1.1	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff is not installed or installed incorrectly or inoperable or damaged or leaking.
1.1.2	Boiler Controls - LWCO and Flow Sensing	Second Low Water Cutoff installation is not satisfactory
1.1.3	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff is not able to be reset manually
1.1.4	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff is located too low or too high
1.1.5	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff is not able to be tested
1.1.6	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff is inoperable or damaged or leaking or bypassed.
1.1.7	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff(s) Drain installation is not satisfactory
1.1.8	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff(s) Drain Valve installation is not satisfactory
1.1.9	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff(s) Drain is clogged.
1.1.10	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff Float Chamber contains accumulation of sediment.
1.1.11	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff Pipe is leaking.
1.1.12	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff Pipe Diameter or Pipe Schedule or Pipe Material is incorrect.
1.1.13	Boiler Controls - LWCO and Flow Sensing	Cross pipe fittings are not installed where required.
1.1.14	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff Alarm installation is not satisfactory
1.1.15	Boiler Controls - LWCO and Flow Sensing	Low Water Cutoff Alarm Wiring installation is not satisfactory
1.1.16	Boiler Controls - LWCO and Flow Sensing	Water Level Control Device installation is not satisfactory
1.1.30	Boiler Controls - LWCO and Flow Sensing	Flow Sensing Device and Switch is not installed/installed incorrectly/inoperable/damaged/leaking.
1.1.31	Boiler Controls - LWCO and Flow Sensing	Flow Sensing Device and Switch is inoperable or damaged or leaking or bypassed.
1.1.32	Boiler Controls - LWCO and Flow Sensing	Flow Sensing Device and Switch is not able to be tested
1.1.33	Boiler Controls - LWCO and Flow Sensing	Flow Sensing Device Pipe is leaking.

BOILER VIOLATIONS		
Code	Category	Subcategory
1.1.34	Boiler Controls - LWCO and Flow Sensing	Flow Sensing Device Pipe Diameter or Pipe Schedule or Pipe Material is incorrect.
1.1.35	Boiler Controls - LWCO and Flow Sensing	Feedwater Pump Control Device installation is not satisfactory
1.1.36	Boiler Controls - LWCO and Flow Sensing	Low Flow Alarm is not installed or installed incorrectly or inoperable or damaged or leaking.
1.1.37	Boiler Controls - LWCO and Flow Sensing	Low Flow Cutoff Alarm Wiring installation is not satisfactory
1.1.99	Boiler Controls - LWCO and Flow Sensing	Other
1.2.1	Boiler Controls - Water Column/Level Indicator	Water Column is not installed or installed incorrectly or inoperable or damaged or leaking.
1.2.2	Boiler Controls - Water Column/Level Indicator	Water Column is not able to be blown down.
1.2.3	Boiler Controls - Water Column/Level Indicator	Water Column contains sediment.
1.2.4	Boiler Controls - Water Column/Level Indicator	Water Column Drain is not installed or installed incorrectly or inoperable or damaged or leaking.
1.2.20	Boiler Controls - Water Column/Level Indicator	Water Level Indicator is not installed or installed incorrectly or inoperable or damaged or leaking.
1.2.21	Boiler Controls - Water Column/Level Indicator	Water Level Indicator Glass is not installed/installed incorrectly/inoperable/damaged/leaking.
1.2.22	Boiler Controls - Water Column/Level Indicator	Water Level Indicator Glass is broken.
1.2.23	Boiler Controls - Water Column/Level Indicator	Water Level Indicator Glass is dirty.
1.2.24	Boiler Controls - Water Column/Level Indicator	Water Level Indicator contains sediment.
1.2.25	Boiler Controls - Water Column/Level Indicator	Water Level Indicator is not able to be blown down.
1.2.26	Boiler Controls - Water Column/Level Indicator	Water Level Indicator Drain is not installed/installed incorrectly/inoperable/damaged/leaking.
1.2.27	Boiler Controls - Water Column/Level Indicator	Water Level Indicator Drain is leaking.
1.2.28	Boiler Controls - Water Column/Level Indicator	Water Level Indicator Valve is leaking.
1.2.29	Boiler Controls - Water Column/Level Indicator	Water Level Indicator located remotely installation is not satisfactory
1.2.99	Boiler Controls - Water Column/Level Indicator	Other

BOILER VIOLATIONS		
Code	Category	Subcategory
1.3.1	Boiler Controls - Pressure Gauge	Pressure Indicator is not installed or installed incorrectly or inoperable or damaged or leaking.
1.3.2	Boiler Controls - Pressure Gauge	Pressure Indicator Siphon installation is not satisfactory
1.3.3	Boiler Controls - Pressure Gauge	Pressure Indicator Glass installation is not satisfactory
1.3.4	Boiler Controls - Pressure Gauge	Pressure Indicator is inoperable.
1.3.5	Boiler Controls - Pressure Gauge	Pressure Indicator is not calibrated correctly.
1.3.6	Boiler Controls - Pressure Gauge	Pressure Indicator scale is not correct
1.3.7	Boiler Controls - Pressure Gauge	Pressure Indicator is located incorrectly.
1.3.8	Boiler Controls - Pressure Gauge	Pressure Indicator is leaking.
1.3.9	Boiler Controls - Pressure Gauge	Pressure Indicator is corroded.
1.3.10	Boiler Controls - Pressure Gauge	Pressure Indicator Inlet contains an uncontrolled valve.
1.3.11	Boiler Controls - Pressure Gauge	Pressure Indicator Test Connection installation is not satisfactory
1.3.30	Boiler Controls - Pressure Gauge	Pressure/Temp. Combined Indicator is not installed/installed incorrectly/inoperable/damaged/leaking
1.3.31	Boiler Controls - Pressure Gauge	Pressure/Temperature Combined Indicator scale is incorrect.
1.3.99	Boiler Controls - Pressure Gauge	Other
1.4.1	Boiler Controls - Pressure Controls	Pressure Control Device for Operating Pressure installation is not satisfactory
1.4.2	Boiler Controls - Pressure Controls	Pressure Control Device for High Pressure installation is not satisfactory
1.4.3	Boiler Controls - Pressure Controls	Pressure Control Device Siphon or equivalent installation is not satisfactory
1.4.4	Boiler Controls - Pressure Controls	Pressure Control Device Piping installation is not satisfactory
1.4.5	Boiler Controls - Pressure Controls	Pressure Control Device Inlet contains an uncontrolled valve.
1.4.6	Boiler Controls - Pressure Controls	Pressure Control Device is not able to be reset manually.
1.4.7	Boiler Controls - Pressure Controls	Pressure Control Device Cover installation is not satisfactory
1.4.8	Boiler Controls - Pressure Controls	Pressure Control Device Electrical Wiring Box Cover installation is not satisfactory
1.4.99	Boiler Controls - Pressure Controls	Other
1.5.1	Boiler Controls - Temp. Indication and Control	Temperature Indicator is not installed or installed incorrectly or inoperable or damaged or leaking.
1.5.30	Boiler Controls - Temp. Indication and Control	Temperature Control Device for Operating Temperature installation is not satisfactory
1.5.31	Boiler Controls - Temp. Indication and Control	Temp Control Device for High Temp is not installed/installed incorrectly/inoperable/damaged/leaking.

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BOILER VIOLATIONS		
Code	Category	Subcategory
1.5.32	Boiler Controls - Temp. Indication and Control	Temp Control Device for High Temperature does not limit operating temperature to no more than 210° F
1.5.33	Boiler Controls - Temp. Indication and Control	Temperature Control Device Inlet contains an uncontrolled valve.
1.5.34	Boiler Controls - Temp. Indication and Control	Temperature Control Device is not able to be reset manually.
1.5.35	Boiler Controls - Temp. Indication and Control	Temperature Control Device Cover installation is not satisfactory
1.5.36	Boiler Controls - Temp. Indication and Control	Temperature Control Device Electrical Wiring Box Cover installation is not satisfactory
1.5.99	Boiler Controls - Temp. Indication and Control	Other
1.6.1	Boiler Controls - Undefined Violations	Controls and Safety Device is not installed / installed incorrectly / inoperable / damaged / leaking
1.6.30	Boiler Controls - Undefined Violations	Controls and Safety Device test is not documented.
1.6.31	Boiler Controls - Undefined Violations	Controls and Safety Device Installer's Report is not documented.
1.6.40	Boiler Controls - Undefined Violations	Controls and Safety Device Electrical Wiring installation is not satisfactory
1.6.41	Boiler Controls - Undefined Violations	Lockable Service Disconnect Switch installation is not satisfactory
1.6.42	Boiler Controls - Undefined Violations	Emergency Shutdown Switch installation is not satisfactory
1.6.99	Boiler Controls - Undefined Violations	Other
2.1.1	Boiler Piping - Main Fluid System	Main Fluid System is not installed or installed incorrectly or inoperable or damaged or leaking.
2.1.2	Boiler Piping - Main Fluid System	Main Fluid System Pipe is not installed or installed incorrectly or inoperable or damaged or leaking
2.1.3	Boiler Piping - Main Fluid System	Main Fluid System Pipe is leaking.
2.1.4	Boiler Piping - Main Fluid System	Main Fluid System Pipe Diameter or Pipe Schedule or Pipe Material is incorrect.
2.1.20	Boiler Piping - Main Fluid System	Main Fluid Stop Valve is not installed between the Boiler and the Check Valve
2.1.21	Boiler Piping - Main Fluid System	Main Fluid Stop Valve Drain installation is not satisfactory
2.1.22	Boiler Piping - Main Fluid System	Main Fluid Stop Valve is not rated for this service
2.1.23	Boiler Piping - Main Fluid System	Main Fluid Stop valve is installed in the wrong direction
2.1.24	Boiler Piping - Main Fluid System	Main Fluid Stop Valve Manual Operator installation is not satisfactory
2.1.25	Boiler Piping - Main Fluid System	Main Fluid Stop valve is leaking.
2.1.26	Boiler Piping - Main Fluid System	Main Fluid Stop Valve Support Structure is not satisfactory
2.1.99	Boiler Piping - Main Fluid System	Other

BOILER VIOLATIONS		
Code	Category	Subcategory
2.2.1	Boiler Piping - Bottom Blow and Drain Systems	Blowoff Tank is not installed or installed incorrectly or inoperable or damaged or leaking.
2.2.2	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System is not installed or installed incorrectly or inoperable or damaged or leaking.
2.2.3	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System Pipe is not installed or installed incorrectly or inoperable or damaged or leaking.
2.2.4	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System Pipe Diameter or Pipe Schedule or Pipe Material is incorrect.
2.2.5	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System Pipe is leaking.
2.2.20	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System Valve is not installed or installed incorrectly or inoperable or damaged or leaking.
2.2.21	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System Second Valve installation is not satisfactory
2.2.22	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System Valve is not rated for this service.
2.2.23	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System Valve is installed in the wrong direction.
2.2.24	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System Valve Manual Operator installation is not satisfactory
2.2.25	Boiler Piping - Bottom Blow and Drain Systems	Blowoff System Valve is leaking.
2.2.99	Boiler Piping - Bottom Blow and Drain Systems	Other
2.3.1	Boiler Piping - FW Condensate/Return System	Feedwater/Condensate Return/Makeup Water installation is not satisfactory
2.3.4	Boiler Piping - FW Condensate/Return System	Feedwater Storage Tank installation is not satisfactory
2.3.5	Boiler Piping - FW Condensate/Return System	Feedwater Storage Tank installation is contaminated with oil or other foreign material.
2.3.20	Boiler Piping - FW Condensate/Return System	Feedwater System Pipe Condensate Return does not form a loop ("Hartford Loop")
2.3.21	Boiler Piping - FW Condensate/Return System	Feedwater System Pipe is not installed or installed incorrectly or inoperable or damaged or leaking.
2.3.22	Boiler Piping - FW Condensate/Return System	Feedwater System Pipe Diameter or Pipe Schedule or Pipe Material is incorrect.
2.3.30	Boiler Piping - FW Condensate/Return System	Feedwater/Condensate Check Valve is not satisfactory
2.3.31	Boiler Piping - FW Condensate/Return System	Feedwater Stop valve is not installed or installed incorrectly or inoperable or damaged or leaking.

BOILER VIOLATIONS		
Code	Category	Subcategory
2.3.32	Boiler Piping - FW Condensate/Return System	Feedwater Regulator Valve is not installed / installed incorrectly / inoperable / damaged / leaking.
2.3.99	Boiler Piping - FW Condensate/Return System	Other
2.4.1	Boiler Piping/Expansion Tanks/Htg Sys Piping	Expansion Tank is not installed or installed incorrectly or inoperable or damaged or leaking.
2.4.2	Boiler Piping/Expansion Tanks/Htg Sys Piping	Expansion Tank is not rated for this service.
2.4.3	Boiler Piping/Expansion Tanks/Htg Sys Piping	Expansion Tank is Non Standard ("non code").
2.4.4	Boiler Piping/Expansion Tanks/Htg Sys Piping	Expansion Tank is water logged.
2.4.5	Boiler Piping/Expansion Tanks/Htg Sys Piping	Expansion Tank Water Level Indicator installation is not satisfactory
2.4.6	Boiler Piping/Expansion Tanks/Htg Sys Piping	Expansion Tank Bladder installation is not satisfactory
2.4.7	Boiler Piping/Expansion Tanks/Htg Sys Piping	Expansion Tank Drain is not installed or installed incorrectly or inoperable or damaged or leaking.
2.4.8	Boiler Piping/Expansion Tanks/Htg Sys Piping	Expansion Tank not installed but Check Valve is installed on cold water inlet of HWS System
2.4.9	Boiler Piping/Expansion Tanks/Htg Sys Piping	Expansion Tank Pipe is not installed or installed incorrectly or inoperable or damaged or leaking.
2.4.99	Boiler Piping/Expansion Tanks/Htg Sys Piping	Other
2.5.1	Boiler Piping - Casing, Stack Breeching & Flue	Flue Gas Discharge System installation is not satisfactory
2.5.2	Boiler Piping - Casing, Stack Breeching & Flue	Barometric Damper is not installed or installed incorrectly or inoperable or damaged or leaking.
2.5.3	Boiler Piping - Casing, Stack Breeching & Flue	Flue Gas Discharge System contains Ash and Refuse in the base.
2.5.4	Boiler Piping - Casing, Stack Breeching & Flue	Flue Gas Discharge System shows excess carbon deposits.
2.5.5	Boiler Piping - Casing, Stack Breeching & Flue	Flue Gas Discharge System shows evidence of Flue Gas leaks.
2.5.6	Boiler Piping - Casing, Stack Breeching & Flue	Flue Gas Discharge System Damper is inoperable.
2.5.7	Boiler Piping - Casing, Stack Breeching & Flue	Flue Gas Discharge System shows evidence of a blockage.
2.5.8	Boiler Piping - Casing, Stack Breeching & Flue	Flue Gas Discharge System shows excessive corrosion.

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BOILER VIOLATIONS		
Code	Category	Subcategory
2.5.99	Boiler Piping - Casing, Stack Breeching & Flue	Other
2.6.1	Boiler Piping - Burners & Fuel Supply Systems	Burner is not installed or installed incorrectly or inoperable or damaged or leaking.
2.6.2	Boiler Piping - Burners & Fuel Supply Systems	Burner or tips are dirty
2.6.3	Boiler Piping - Burners & Fuel Supply Systems	Burner Interlock with Combustion Air Supply System installation is not satisfactory
2.6.4	Boiler Piping - Burners & Fuel Supply Systems	Burner Combustion Air System installation is not satisfactory
2.6.5	Boiler Piping - Burners & Fuel Supply Systems	Burner Combustion Air System is unable to deliver sufficient flow.
2.6.6	Boiler Piping - Burners & Fuel Supply Systems	Burner Primary Flame Control Device not installed/installed incorrectly/inoperable/damaged/leaking
2.6.7	Boiler Piping - Burners & Fuel Supply Systems	Burner Primary Flame Control Device Wiring installation is not satisfactory
2.6.8	Boiler Piping - Burners & Fuel Supply Systems	Burner Ignition system installation is not satisfactory
2.6.9	Boiler Piping - Burners & Fuel Supply Systems	Burner Ignition is delayed
2.6.30	Boiler Piping - Burners & Fuel Supply Systems	Fuel Supply System is not installed or installed incorrectly or inoperable or damaged or leaking.
2.6.31	Boiler Piping - Burners & Fuel Supply Systems	Fuel Supply System Pipe Diameter or Pipe Schedule or Pipe Material is incorrect.
2.6.32	Boiler Piping - Burners & Fuel Supply Systems	Fuel Supply System Valve is not installed / installed incorrectly / inoperable / damaged / leaking
2.6.33	Boiler Piping - Burners & Fuel Supply Systems	Fuel Supply System Valve with Hydraulic Actuator installation is not satisfactory
2.6.50	Boiler Piping - Burners & Fuel Supply Systems	Fuel Gas Supply System is vented incorrectly.
2.6.51	Boiler Piping - Burners & Fuel Supply Systems	Fuel Gas Supply System Drip Leg installation is not satisfactory
2.6.52	Boiler Piping - Burners & Fuel Supply Systems	Fuel Gas Regulator Diaphragm installation is not satisfactory
2.6.53	Boiler Piping - Burners & Fuel Supply Systems	Fuel Gas Regulator Position Indicator installation is not satisfactory
2.6.54	Boiler Piping - Burners & Fuel Supply Systems	Fuel Gas Supply Meter is located in the boiler room.
2.6.99	Boiler Piping - Burners & Fuel Supply Systems	Other

BOILER VIOLATIONS		
Code	Category	Subcategory
2.7.1	Boiler Piping - Other Systems Undefined Viol.	Boiler External Piping contains non Code material, (among which may be galvanized elements).
2.7.2	Boiler Piping - Other Systems Undefined Viol.	Boiler External Piping is not installed / installed incorrectly / inoperable / damaged / leaking.
2.7.3	Boiler Piping - Other Systems Undefined Viol.	Boiler Proper is not installed or installed incorrectly or inoperable or damaged or leaking.
2.7.4	Boiler Piping - Other Systems Undefined Viol.	Non Boiler External Piping is not installed / installed incorrectly / inoperable / damaged / leaking
2.7.99	Boiler Piping - Other Systems Undefined Viol.	Other
3.1.1	Boiler MDR & Nameplate - No Data Report	Object Manufacturers' Data Report is unavailable or illegible or incorrect.
3.2.1	Boiler MDR & Nameplate - Incorrect/Missing	Object Nameplate or Stamping is unavailable or illegible or incorrect.
3.2.2	Boiler MDR & Nameplate - Incorrect/Missing	Minimum Low Water Level Mark not installed / installed incorrectly / inoperable / damaged / leaking
3.3.1	Boiler MDR & Nameplate - Undefined	Boiler Manufacturer's Data Report And Nameplate Undefined Violations
3.3.2	Boiler MDR & Nameplate - Undefined	Object is Non Standard ("non code")
4.1.1	Boiler Components - Water Leaks	Handhole or gasket or gasket seat installation is not satisfactory
4.1.20	Boiler Components - Water Leaks	Head is not installed or installed incorrectly or inoperable or damaged or leaking.
4.1.30	Boiler Components - Water Leaks	Shell is not installed or installed incorrectly or inoperable or damaged or leaking.
4.1.40	Boiler Components - Water Leaks	Tubesheet is not installed or installed incorrectly or inoperable or damaged or leaking.
4.1.50	Boiler Components - Water Leaks	Tube/tube ends is not installed or installed incorrectly or inoperable or damaged or leaking.
4.1.60	Boiler Components - Water Leaks	Manway gasket is not installed or installed incorrectly or inoperable or damaged or leaking.
4.1.70	Boiler Components - Water Leaks	Other Component is not installed or installed incorrectly or inoperable or damaged or leaking.
4.2.1	Boiler Components - Baffles and/or Refractory	Baffle or Refractory is not installed or installed incorrectly or inoperable or damaged or leaking.
4.2.2	Boiler Components - Baffles and/or Refractory	Baffle or Refractory is Bent.
4.2.3	Boiler Components - Baffles and/or Refractory	Baffle or Refractory is Deteriorated.

BOILER VIOLATIONS		
Code	Category	Subcategory
4.2.4	Boiler Components - Baffles and/or Refractory	Baffle or Refractory is out of place.
4.2.99	Boiler Components - Baffles and/or Refractory	Other
4.3.1	Boiler Components - Furnace and Fireside	Furnace or Fireside is not installed or installed incorrectly or inoperable or damaged or leaking.
4.3.2	Boiler Components - Furnace and Fireside	Firebox is bulged.
4.3.3	Boiler Components - Furnace and Fireside	Front tubesheet is bulged.
4.3.4	Boiler Components - Furnace and Fireside	Firebox is cracked.
4.3.5	Boiler Components - Furnace and Fireside	Firebox is corroded
4.3.6	Boiler Components - Furnace and Fireside	Furnace tube is cracked.
4.3.7	Boiler Components - Furnace and Fireside	Sootblower is misaligned.
4.3.8	Boiler Components - Furnace and Fireside	Firebox contains unburned fuel.
4.3.99	Boiler Components - Furnace and Fireside	Other
4.4.1	Boiler Components - Waterside	Waterside shows evidence of excess oil accumulation.
4.4.2	Boiler Components - Waterside	Waterside is corroded.
4.4.3	Boiler Components - Waterside	Waterside is pitted.
4.4.4	Boiler Components - Waterside	Waterside shows evidence of excess accumulation of scale or other foreign material.
4.4.5	Boiler Components - Waterside	Waterside shows evidence of excess accumulation of sludge or other foreign material.
4.4.6	Boiler Components - Waterside	Stay or staybolt is broken or deteriorated.
4.4.99	Boiler Components - Waterside	Other
4.5.1	Boiler Components - Superheaters	Superheater is not installed or installed incorrectly or inoperable or damaged or leaking.
4.5.2	Boiler Components - Superheaters	Superheater is corroded.
4.5.3	Boiler Components - Superheaters	Superheater Support is not installed or installed incorrectly or inoperable or damaged or leaking.
4.5.99	Boiler Components - Superheaters	Other
4.6.1	Boiler Components - Economizers	Economizer is not installed or installed incorrectly or inoperable or damaged or leaking.
4.6.2	Boiler Components - Economizers	Economizer is corroded.
4.6.3	Boiler Components - Economizers	Economizer Support is not installed or installed incorrectly or inoperable or damaged or leaking.

## Maryland Boiler and Pressure Vessel Inspection Unit

BOILER VIOLATIONS		
Code	Category	Subcategory
4.6.99	Boiler Components - Economizers	Other
4.7.1	Boiler Components - Installation	Clearance is insufficient.
4.7.2	Boiler Components - Installation	Object Setting is not installed or installed incorrectly or inoperable or damaged or leaking.
4.7.3	Boiler Components - Installation	Object Support is not installed or installed incorrectly or inoperable or damaged or leaking.
4.7.4	Boiler Components - Installation	Object Vicinity is cluttered and is used for storage therefore interfering with an inspection.
4.7.99	Boiler Components - Installation	Other
4.8.1	Boiler Components - Undefined Violations	Boiler is not installed or installed incorrectly or inoperable or damaged or leaking.
4.8.2	Boiler Components - Undefined Violations	Certificate of Inspection is expired.
4.8.3	Boiler Components - Undefined Violations	Certificate of Inspection is not posted.
4.8.4	Boiler Components - Undefined Violations	Notice of Installation was not submitted at least 30 days prior to installation.
4.8.5	Boiler Components - Undefined Violations	Notice of Installation is not available at time of the inspection.
4.8.6	Boiler Components - Undefined Violations	Manufacturer's Operation Manual is not available.
4.8.7	Boiler Components - Undefined Violations	Manufacturer's Installation Manual is not available.
4.8.8	Boiler Components - Undefined Violations	Installer's Startup Checklist (ASME CSD-1 CG-500 App C) is not available at time of the inspection.
4.8.30	Boiler Components - Undefined Violations	Object is not new and is installed without approval of the Jurisdiction.
4.8.31	Boiler Components - Undefined Violations	Object is not prepared for internal inspection.
4.8.32	Boiler Components - Undefined Violations	Object requires an internal inspection.
4.8.50	Boiler Components - Undefined Violations	Hydrostatic test is required.
4.8.51	Boiler Components - Undefined Violations	Ultrasonic Thickness Testing is required.
4.8.52	Boiler Components - Undefined Violations	Non Destructive Examination is required.
4.8.99	Boiler Components - Undefined Violations	Other
5.1.1	Boiler Press Relief Device - Installation	Pressure Relief Device is not a Temperature/Pressure Safety Relief Valve.
5.1.20	Boiler Press Relief Device - Installation	Pressure Relief Device is not installed or installed incorrectly or inoperable or damaged or leaking
5.1.30	Boiler Press Relief Device - Installation	Pressure Relief Device nameplate is illegible or missing.
5.1.31	Boiler Press Relief Device - Installation	Pressure Relief Device Seal is missing or damaged.
5.1.32	Boiler Press Relief Device - Installation	Pressure Relief Device Seal is not the seal of an authorized testing agency.

BOILER VIOLATIONS		
Code	Category	Subcategory
5.1.33	Boiler Press Relief Device - Installation	Pressure Relief Device is not rated for this service.
5.1.34	Boiler Press Relief Device - Installation	Pressure Relief Device Capacity is too low.
5.1.35	Boiler Press Relief Device - Installation	Pressure Relief Device Setpoint is too high.
5.1.36	Boiler Press Relief Device - Installation	Pressure Relief Device is unable to be tested.
5.1.37	Boiler Press Relief Device - Installation	Pressure Relief Device is not sufficient, additional device is not installed.
5.1.50	Boiler Press Relief Device - Installation	Pressure Relief Device Inlet or Outlet contains an uncontrolled valve.
5.1.51	Boiler Press Relief Device - Installation	Pressure Relief Device Inlet contains a restriction.
5.1.52	Boiler Press Relief Device - Installation	Pressure Relief Device Outlet contains a restriction.
5.1.53	Boiler Press Relief Device - Installation	Pressure Relief Device is installed backwards.
5.1.54	Boiler Press Relief Device - Installation	Pressure Relief Device is not discharged to a safe area.
5.1.55	Boiler Press Relief Device - Installation	Pressure Relief Device Spindle is not vertical.
5.1.99	Boiler Press Relief Device - Installation	Other
5.2.1	Boiler Press Relief Device - Operation	Pressure Relief Device Discharge Piping is not free to move.
5.2.2	Boiler Press Relief Device - Operation	Pressure Relief Device Discharge Piping is not properly supported.
5.2.3	Boiler Press Relief Device - Operation	Pressure Relief Device Discharge is plugged.
5.2.4	Boiler Press Relief Device - Operation	Pressure Relief Device Valve stem is distorted or bent.
5.2.5	Boiler Press Relief Device - Operation	Pressure Relief Device is inoperable.
5.2.6	Boiler Press Relief Device - Operation	Pressure Relief Device is leaking.
5.2.7	Boiler Press Relief Device - Operation	Pressure Relief Device Blowdown is too little or too much.
5.3.1	Boiler Press Relief Device-Undefined PRD Valve	Pressure Relief Device Undefined Violation.
7.1.1	Repairs/Alterations - Unqualified Organization	A Repair or Alteration performed by an Unqualified Organization without jurisdictional authorization
7.1.2	Repairs/Alterations - Unqualified Organization	A Repair or Alteration performed by an Unqualified Org w/o NB authorization to use the "R" stamp
7.1.3	Repairs/Alterations - Unqualified Organization	A Repair or Alteration performed by an Unqualified Org without meeting other jurisdictional reqs
7.2.1	Repairs/Alterations - Unauthorized Repair	A Repair or Alteration is present which was performed without jurisdictional authorization.
7.3.1	Repairs/Alterations - Code Deficiencies	A Repair or Alteration is undocumented/unsatisfactory/otherwise deficient in meeting reqs of Code
7.4.1	Repairs/Alterations - Undefined Violations	A Repair or Alteration is present which is undocumented or unsatisfactory or otherwise deficient.

## Maryland Boiler and Pressure Vessel Inspection Unit

PRESSURE VESSEL VIOLATIONS		
Code	Category	Subcategory
6.1.1	Pressure Vessels - Installation	Pressure Vessel is not installed or installed incorrectly or inoperable or damaged or leaking.
6.1.2	Pressure Vessels - Installation	Pressure Vessel Support installation is not satisfactory
6.1.3	Pressure Vessels - Installation	Pressure Vessel Piping installation is not satisfactory
6.1.99	Pressure Vessels - Installation	Other
6.2.1	Pressure Vessels - Material Condition	Pressure Vessel Material is not installed/installed incorrectly/inoperable/damaged/leaking
6.2.2	Pressure Vessels - Material Condition	Pressure Vessel Material is Cracked.
6.2.3	Pressure Vessels - Material Condition	Pressure Vessel Material is Pitted.
6.2.4	Pressure Vessels - Material Condition	Pressure Vessel Material is Corroded.
6.2.99	Pressure Vessels - Material Condition	Other
6.3.1	Pressure Vessels - MDR & Nameplate	Object Manufacturers' Data Report is unavailable or illegible or incorrect.
6.3.2	Pressure Vessels - MDR & Nameplate	Object Nameplate or Stamping is unavailable or illegible or incorrect.
6.3.3	Pressure Vessels - MDR & Nameplate	Object Manufacturers' Data Report or Nameplate or Stamping is otherwise deficient.
6.3.4	Pressure Vessels - MDR & Nameplate	Object is Non Standard ("non code").
6.4.10.10	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device is not installed or installed incorrectly or inoperable or damaged or leaking
6.4.10.20	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device nameplate is illegible or missing.
6.4.10.21	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Seal is missing or damaged.
6.4.10.22	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Seal is not the seal of an authorized testing agency.
6.4.10.23	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device is not rated for this service.
6.4.10.24	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Capacity is too low.
6.4.10.25	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Setpoint is too high.
6.4.10.26	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device is unable to be tested.
6.4.10.27	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device is not sufficient, additional device is not installed.
6.4.10.40	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Inlet or Outlet contains an uncontrolled valve.

PRESSURE VESSEL VIOLATIONS		
Code	Category	Subcategory
6.4.10.41	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Inlet contains a restriction.
6.4.10.42	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Outlet contains a restriction.
6.4.10.43	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device is installed backwards.
6.4.10.44	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device is not discharged to a safe area.
6.4.10.45	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Spindle is not vertical.
6.4.20.1	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Discharge Piping is not free to move.
6.4.20.2	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Discharge Piping is not properly supported.
6.4.20.3	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Discharge is plugged.
6.4.20.4	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Valve stem is distorted or bent.
6.4.20.5	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device is inoperable.
6.4.20.6	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device is leaking.
6.4.20.7	Pressure Vessels - Pressure Relieving Devices	Pressure Relief Device Blowdown is too little or too much.
6.4.20.8	Pressure Vessels - Pressure Relieving Devices	Undefined Pressure Relieving Devices Violations
6.5.1	Pressure Vessels - Undefined Violations	Pressure Vessel is not installed or installed incorrectly or inoperable or damaged or leaking.
6.5.20	Pressure Vessels - Undefined Violations	Pressure Vessel Automatic Drain Valve installation is not satisfactory
6.5.21	Pressure Vessels - Undefined Violations	Pressure Vessel Manual Drain Valve installation is not satisfactory
6.5.30	Pressure Vessels - Undefined Violations	Object Vicinity is cluttered and is used for storage therefore interfering with an inspection.
6.5.40	Pressure Vessels - Undefined Violations	Pressure Indicator is not installed or installed incorrectly or inoperable or damaged or leaking.
6.5.41	Pressure Vessels - Undefined Violations	Pressure Indicator Siphon or equivalent installation is not satisfactory
6.5.42	Pressure Vessels - Undefined Violations	Pressure Indicator is not calibrated correctly.

PRESSURE VESSEL VIOLATIONS		
Code	Category	Subcategory
6.5.43	Pressure Vessels - Undefined Violations	Pressure Indicator scale is not correct.
6.5.50	Pressure Vessels - Undefined Violations	Pressure Vessel Compressor installation is not satisfactory
6.5.51	Pressure Vessels - Undefined Violations	Pressure Vessel Compressor Belt Guard is missing, damaged or incorrectly installed.
6.5.60	Pressure Vessels - Undefined Violations	Certificate of Inspection is expired.
6.5.61	Pressure Vessels - Undefined Violations	Certificate of Inspection is not posted.
6.5.70	Pressure Vessels - Undefined Violations	Notice of Installation was not submitted at least 30 days prior to installation.
6.5.71	Pressure Vessels - Undefined Violations	Notice of Installation is not available at time of the inspection.
6.5.72	Pressure Vessels - Undefined Violations	Manufacturer's Operation Manual is not available.
6.5.73	Pressure Vessels - Undefined Violations	Manufacturer's Installation Manual is not available.
6.5.74	Pressure Vessels - Undefined Violations	Object is not new and is installed without approval of the Jurisdiction.
6.5.80	Pressure Vessels - Undefined Violations	Object is not prepared for internal inspection.
6.5.81	Pressure Vessels - Undefined Violations	Object requires an internal inspection.
6.5.82	Pressure Vessels - Undefined Violations	Hydrostatic test is required.
6.5.83	Pressure Vessels - Undefined Violations	Ultrasonic Thickness Testing is required.
6.5.84	Pressure Vessels - Undefined Violations	Non Destructive Examination is required.
6.5.99	Pressure Vessels - Undefined Violations	Other
7.1.1	Repairs/Alterations - Unqualified Organization	A Repair or Alteration performed by an Unqualified Organization without jurisdictional authorization
7.1.2	Repairs/Alterations - Unqualified Organization	A Repair or Alteration performed by an Unqualified Org w/o NB authorization to use the "R" stamp
7.1.3	Repairs/Alterations - Unqualified Organization	A Repair or Alteration performed by an Unqualified Org without meeting other jurisdictional reqs
7.2.1	Repairs/Alterations - Unauthorized Repair	A Repair or Alteration is present which was performed without jurisdictional authorization.

## Maryland Boiler and Pressure Vessel Inspection Unit

PRESSURE VESSEL VIOLATIONS		
Code	Category	Subcategory
7.3.1	Repairs/Alterations - Code Deficiencies	A Repair or Alteration is undocumented/unsatisfactory/otherwise deficient in meeting reqs of Code
7.4.1	Repairs/Alterations - Undefined Violations	A Repair or Alteration is present which is undocumented or unsatisfactory or otherwise deficient.