

Maine Fuel Board

PHCC Presentation

This presentation is a direct result of questions and concerns from technicians such as yourselves.

As such, it does not follow the standard presentation style.

We will be a little “all over the place”

Fuel Board Inspectors

Dale Hersey, Senior Inspector (207) 592-5864
(Waldo, Piscataquis, Penobscot south of Lincoln)

Cecil Hafford (207) 592-5043
(Aroostook, Washington, Hancock, Penobscot north of Lincoln)

Bruce Bristow (207) 592-4516
(Franklin, Kennebec, Androscoggin, Oxford, Somerset)

Paul Moody (207) 446-2826
(Knox, Lincoln, Sagadahoc, Cumberland, York)

Fuel Board Inspectors

If you have any specific code questions, please direct them to one of the Inspectors

Not the office staff or the office phone

Fuel Board Staff

Karen Ross

Tyler Robinson

fuel.board@maine.gov

Fuel Board Staff

It is imperative that licensees take responsibility for their licenses.

This is not your employers' responsibility, whether they pay for the license renewal or not

Fuel Board Staff

Due to staff changes, it is more important than ever to know your password and to receive notifications in your personal email.

Emails will come from
noreply@maine.gov

Exam Approval

You must wait 24 hours after you have been approved to schedule your exam.

Additionally, when you apply for a license, wait 24 hours to find your license in the form of an email in your email inbox.

Exam Approval

If you need to track time for licensure, have your supervising Master provide them to you quarterly.

It will be much easier for you in the long run

Testing

All testing is now open book

All tests, test questions and resource materials have been reviewed and updated to reflect the current adopted codes, laws & rules

Code Editions

2023 Maine Laws & Rules

2021 NFPA 30A

2020 NFPA 31

2021 NFPA 54

2020 NFPA 58

2020 NFPA 70

2021 NFPA 90B

2019 NFPA 211





Maine Public Utilities Commission

Is It a Jurisdictional System?

Are there 10 or more customers in the system?

Yes

Jurisdictional

No

Maine Public Utilities Commission

Is any portion of the system in a public place or public building, and serves more than one customer?

Yes

Jurisdictional

No

Maine Public Utilities Commission

Does the system serve a single customer, where a portion of the system is not entirely on customer's premises?

Yes

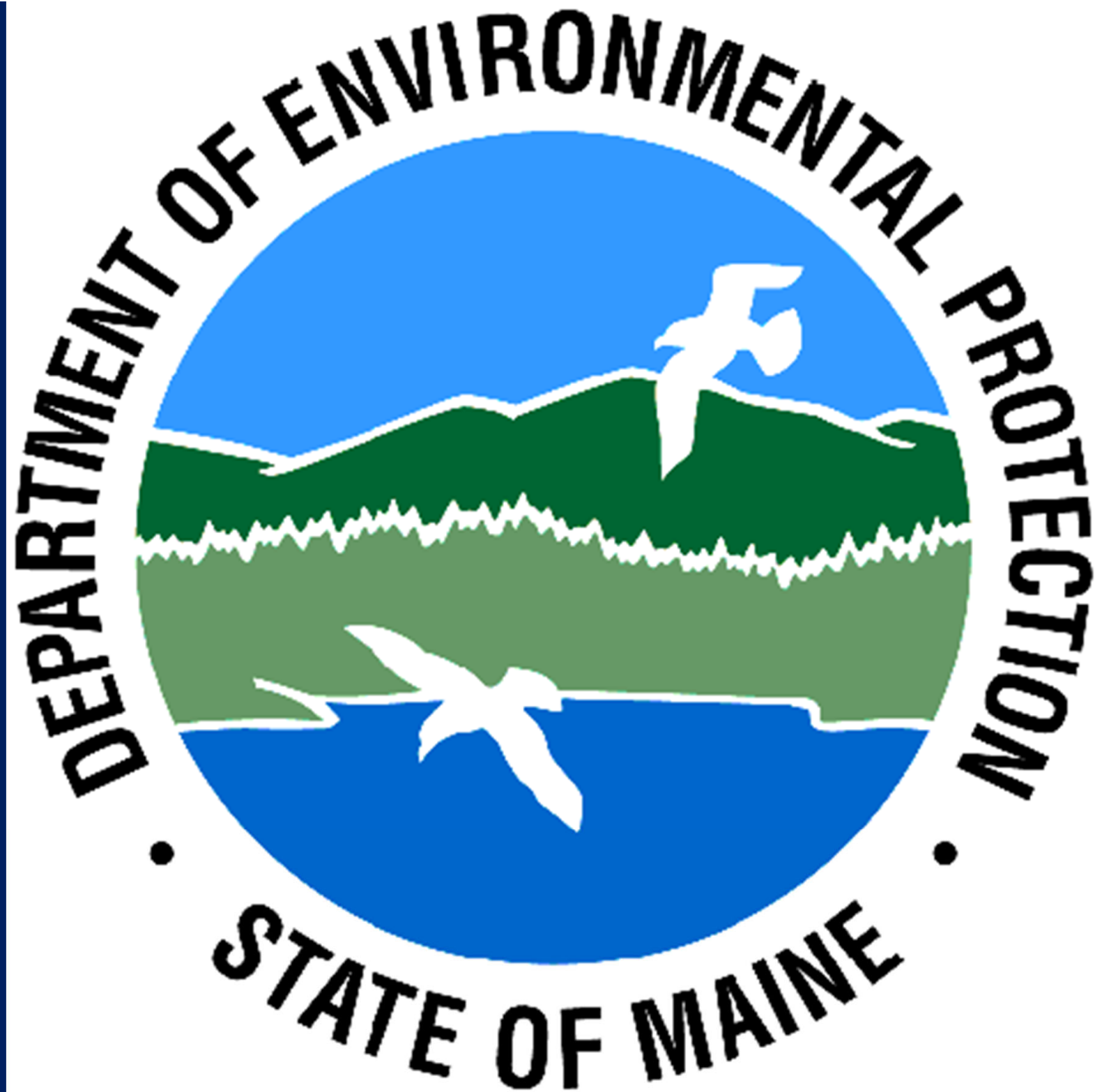
Jurisdictional

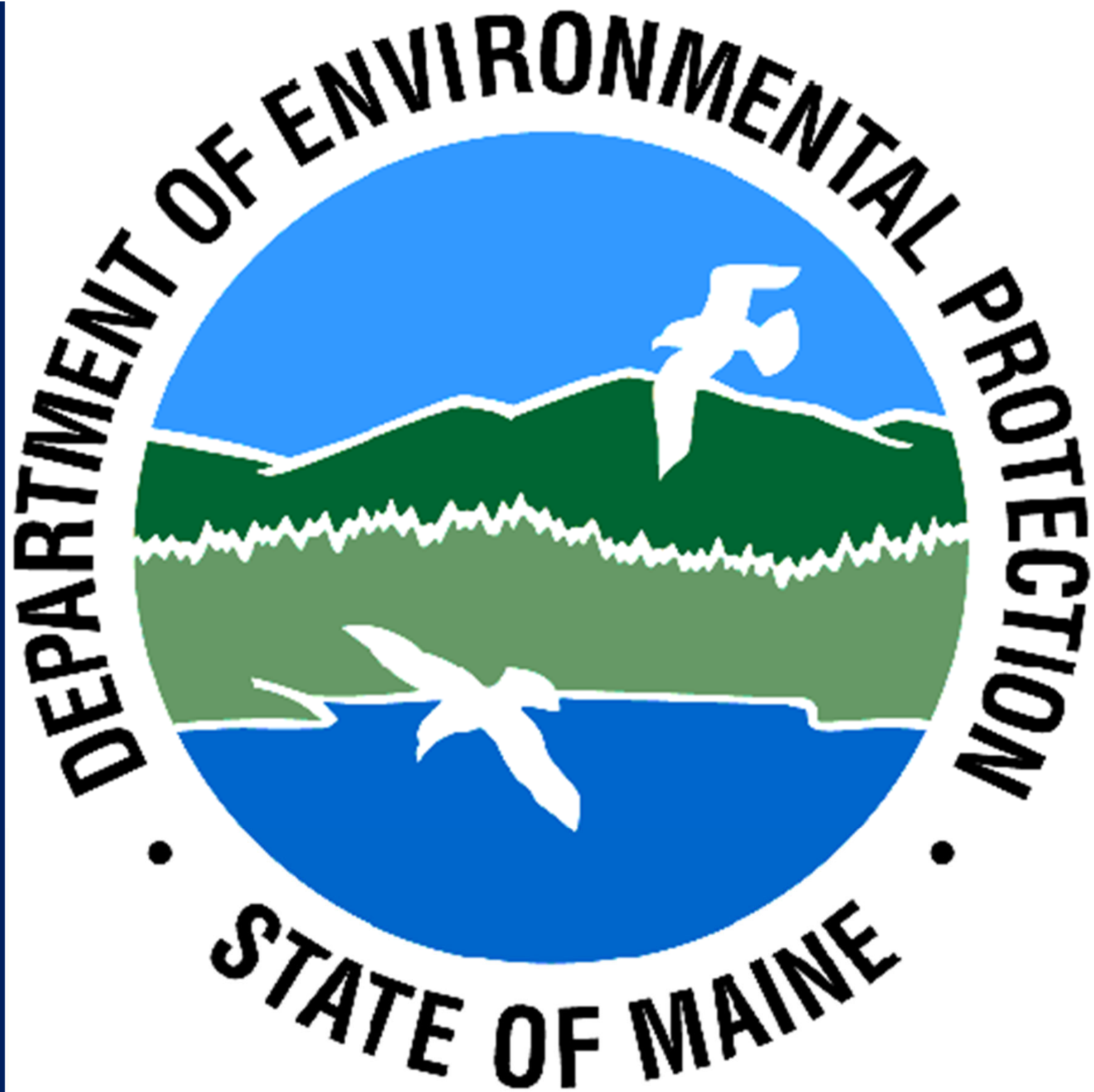
No

Non-Jurisdictional

This chart is intended to serve as a general guideline for determining if a system is jurisdictional. However, the final interpretation and determination of a jurisdictional system can vary. Any question please contact Maine Public Utilities Commission Gas Safety Staff.















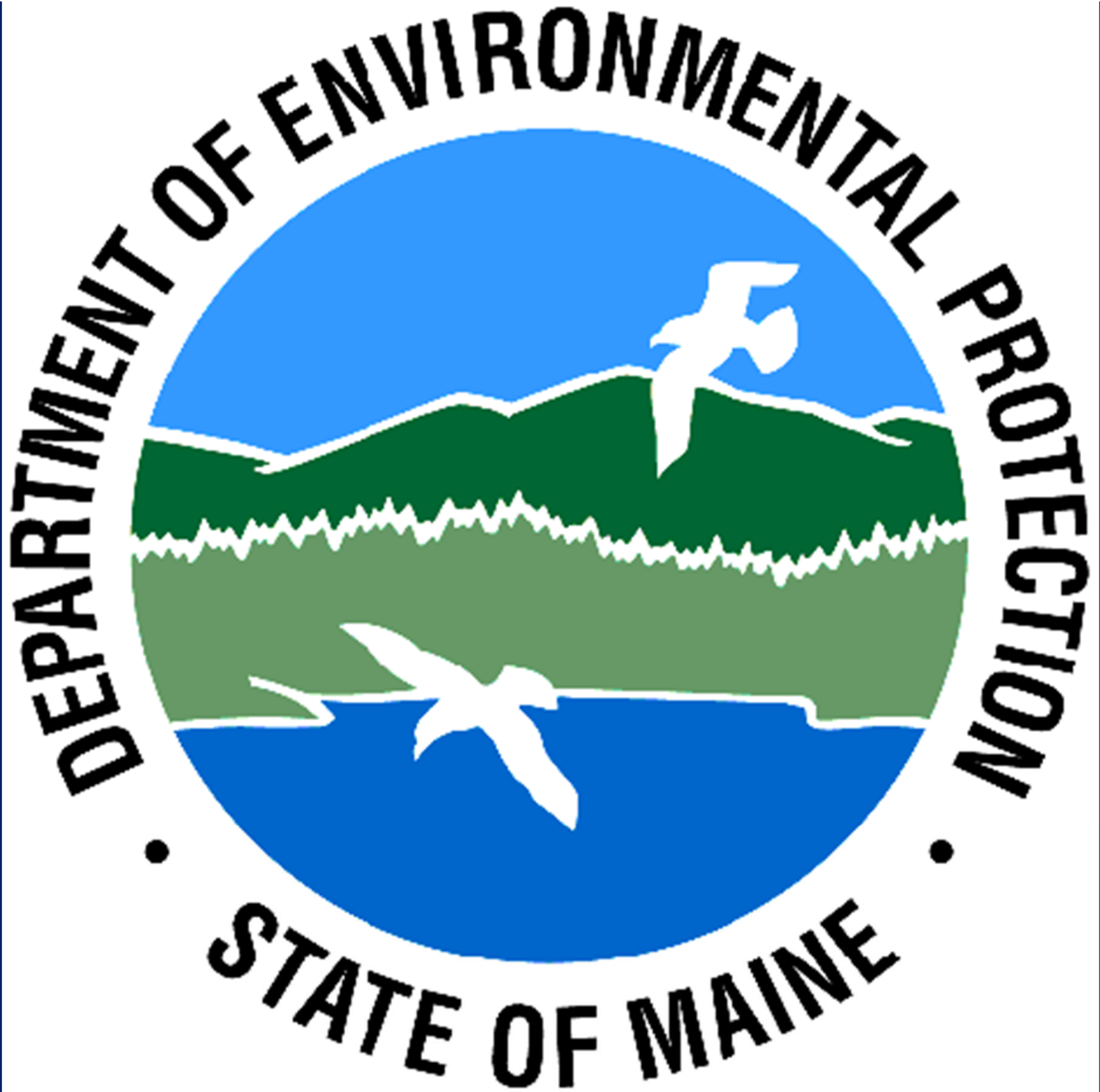


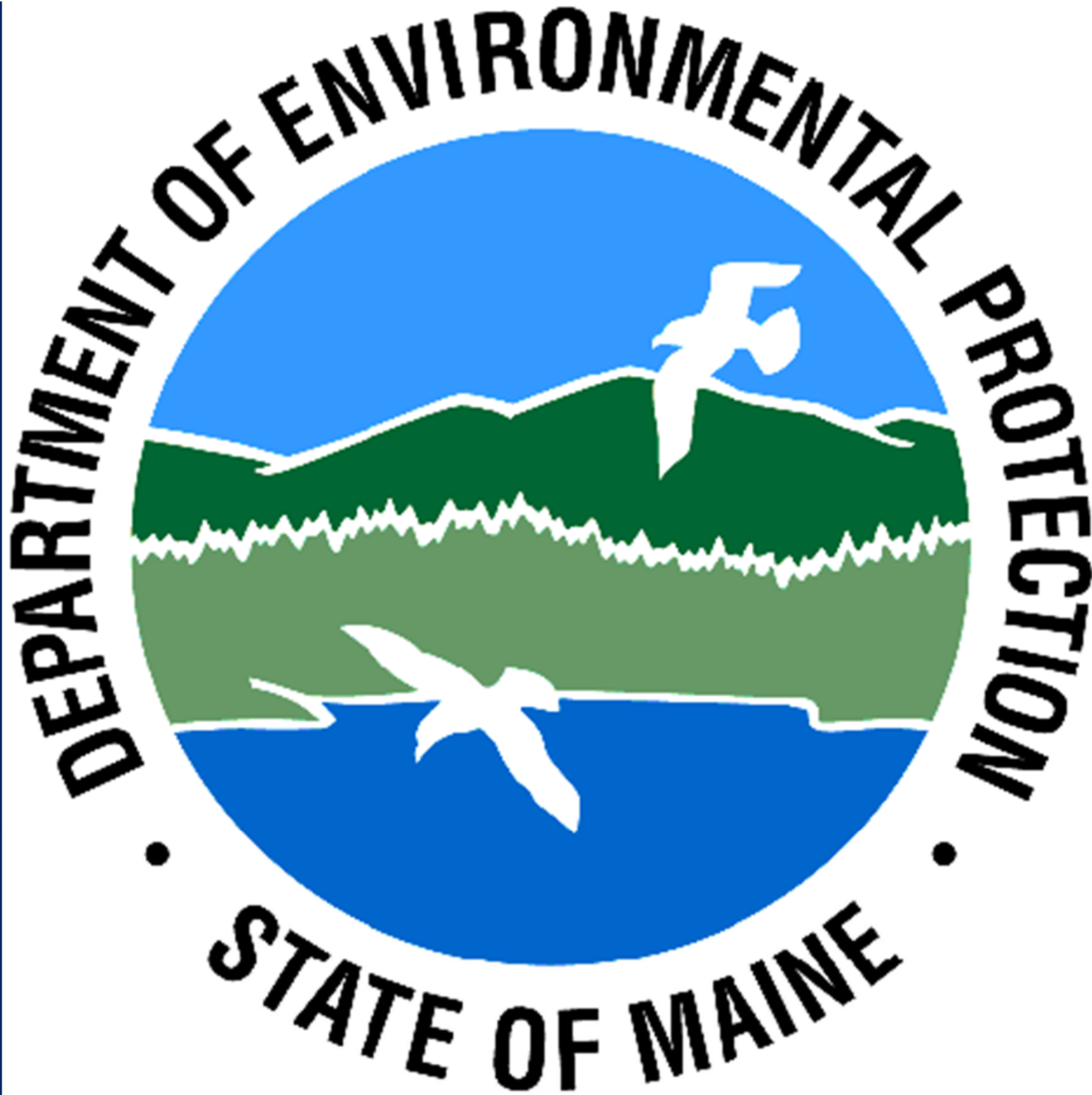












Public Drinking Water

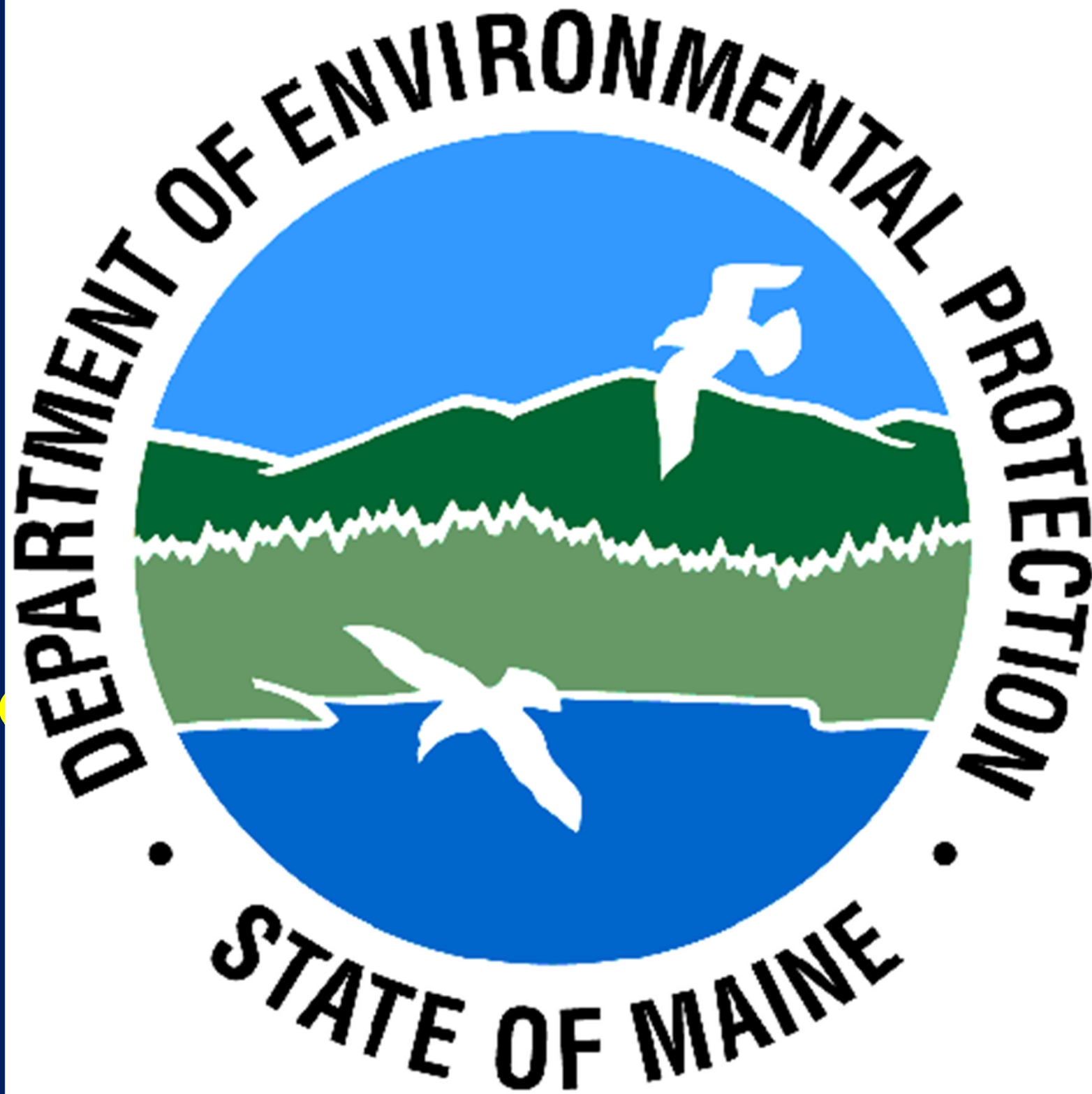


Public Drinking Water



Public Drinking Water





Oil Tanks



Maine Electrical Inspectors

They are here to answer any electrical
code or law questions that you might
have

Electrical

FYI

If a wall-hung gas-fired appliance is hardwired directly to the panel, the requirement for a GFCI protected circuit goes away

It only applies to plug-in appliances

Maine Boiler Board

When is a manual-reset high limit

and/or

a manual-reset low water cutoff
required?

Municipal Ordinances

Be aware that local municipalities may have more stringent requirements for various items that the State does not require.

ie. Permits, propane container anchoring

Maine Laws & Rules

Maine Laws & Rules

Our Rules state that the entire installation must be in compliance with adopted code...

Before the appliance is fired!

Maine Laws & Rules

Who is the responsible party for an
installation if something goes
wrong?



Maine Laws & Rules

If you fire a new appliance
and place it into service...

You are now the responsible party
if something is not installed in
compliance with code



Maine Laws & Rules

Memorandums of Understanding

Agreements between Boards allowing
improperly licensed personnel to
perform certain aspects of a trade

Maine Laws & Rules

Memorandums of Understanding

The MOU's between the Fuel Board,
Plumbing Board and Electricians
Examining Board are no longer
contained in our rule book

They can be found on the Fuel Board
web page

Maine Laws & Rules

Things That Have Not Changed

Maine Laws & Rules

Manufacturer's Instructions

Still very important !

Many questions that we get can be
answered from them

Maine Laws & Rules

Oil & Solid Fuel Venting

Can you vent an oil appliance and a wood appliance in the same chimney flue?



Maine Laws & Rules

Oil & Solid Fuel Venting

- Sufficient draft
- Chimney lined and in good repair
- CO Detector near a bedroom
- Solid Fuel appliance must be listed
- Must install per manufacturers instructions

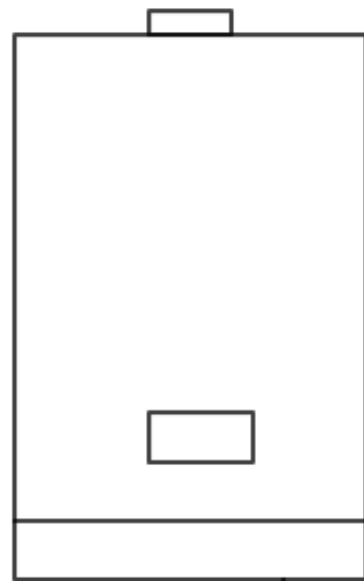
Since 2011

Maine Laws & Rules

Condensate Removal

Nothing has changed since the last
code update ...

Install cleanout here



Neutralizer

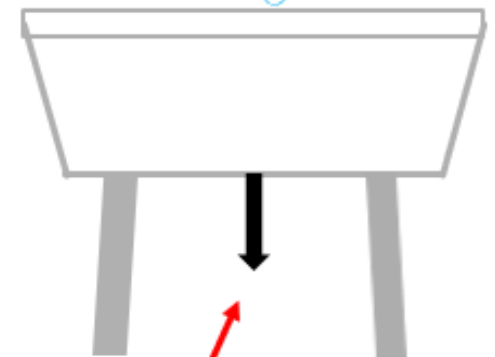
Condensate Pump

Vinyl Tubing

PVC

1" Air Gap

Drain must connect
to sanitary system



Maine Laws & Rules

Primer For PVC Gas Vents

Must be a contrasting color..(purple)

Clear or UV not acceptable

Primer?

Still Direct Vent?



Temperature?







Maine Laws & Rules

Underground Piping

Can gas piping and electrical be run in the same trench?

I do have a
couple
questions.

Trench Depth?

Riser on other
end?



Maine Laws & Rules

Underground Piping

How are you protecting the gas piping that is lying on the ground until the ground thaws?

**Is this
adequate
protection?**



Maine Laws & Rules

Emergency Switch Placement

This hasn't changed since 2014

Maine Laws & Rules

Thermal Switch Placement

This hasn't changed since 2014

Maine Laws & Rules

Central Heating Appliances

What is a central heating appliance?

Maine Laws & Rules

A central heating appliance converts fuel to heat. The heat is circulated through the building either by fans forcing the heated air through ducts, circulation of low-pressure steam to radiators in each heated room, or pumps that circulate hot water through room radiators.



Maine Laws & Rules

What is a non-central heating
appliance?

(Space Heater)

Maine Laws & Rules

Examples

- Rinnai Wall-Hung heaters
- Modine Commercial heaters
- Gas-Tube Radiant Heaters
- Hot Dawg Heaters
- Empire Heaters
- Gas Fireplaces



Maine Laws & Rules

Emergency Switches & TC-1's are NOT required on space heating appliances

(Not a bad idea, but not required)

This hasn't changed since 2014

Maine Laws & Rules

Chapter 6

This is where you are informed about
what is... *or isn't* ...
adopted

Maine Laws & Rules

Chapter 6 Example

The Board does not adopt Chapter 7,
Section 7.3.1 of NFPA 31.

(See instead Chapter 8, Sections 8.10
and 8.11 of Board rules)

NFPA 31

Chapter 7 Section 7.3.1

“Tanks and their supports shall rest on foundations made of solid concrete”

Pretty vague, huh?

Maine Laws & Rules

Chapter 8

Sections 8.10 and 8.11 are very specific as to how oil tanks are to be supported

ie. Legs, flanges, blocks, pads, gravel, etc.

Maine Laws & Rules

Chapter 6 Example

The Board does not adopt Chapter 6,
Sections 6.4.4.1 & 6.4.4.2 of NFPA 58

(See instead Chapter 14, Section 14.5
of Board rules).

Maine Laws & Rules

Chapter 6 Example

This is where NFPA 58 disallows or limits the use of propane containers under a structure, but the Fuel Board allows for two 125's and explains the requirements



Maine Laws & Rules

NEW!

Gas-Fired Direct-Vent Appliances

As referenced in NFPA 54, Chapter 12,
Table 12.9.1

Clearance above finished grade level,
veranda, porch, deck, or balcony

12 in.

12 in.

Clearance to window or door that is
openable

6 in. Appliances $\leq 10,000$ Btu/hr

9 in. Appliances $> 10,000$ Btu/hr \leq
50,000 Btu/hr

12 in. Appliances $> 50,000$ Btu/hr \leq
150,000 Btu/hr

Appliances $> 150,000$ Btu/hr, in accordance
with the appliance manufacturer's instructions
and not less than the clearances specified for
non-direct vent terminals in row B

4 ft below or to side of
opening or 1 ft above
opening



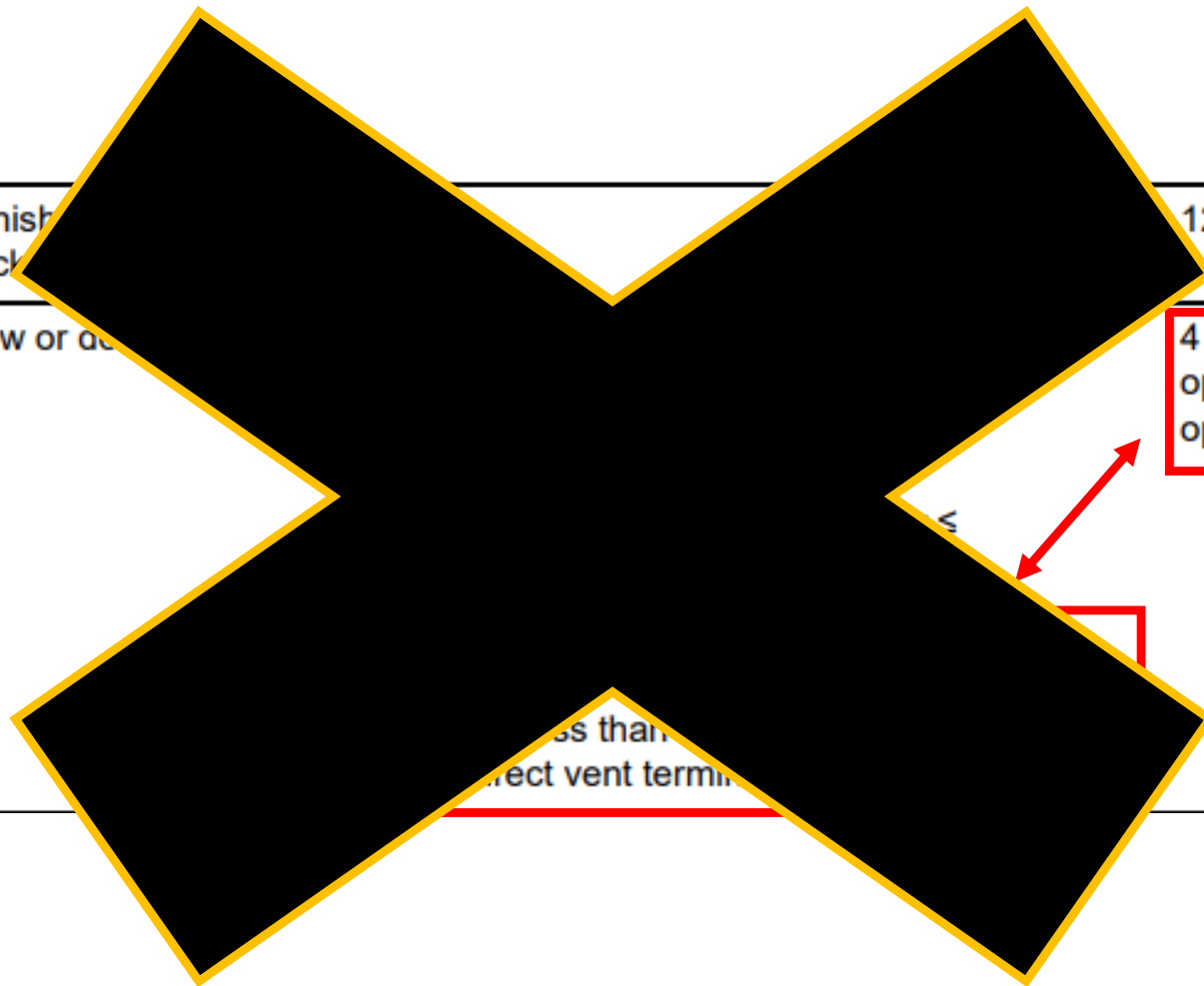
Clearance above finish
veranda, porch, deck

12 in.

Clearance to window or door
openable

4 ft below or to side of
opening or 1 ft above
opening

less than
direct vent termin



Maine Laws & Rules

Chapter 6

The Maine Fuel Board has rescinded the adoption of Table 12.9.1 in the 2021 Edition of NFPA 54 and adopts an amended version as follows:

<u>Clearance Location</u>	<u>Minimum Clearances for Direct Vent Terminals</u>	<u>Minimum Clearances for Non-Direct Vent Terminals</u>
<u>Clearance above finished grade level, veranda, porch, deck, or balcony</u>	<u>12 in.</u>	<u>12 in.</u>
<u>Clearance to window or door that is openable</u>	<u>6 in. Appliances $\leq 10,000$ Btu/hr</u> <u>9 in. Appliances $> 10,000$ Btu/hr $\leq 50,000$ Btu/hr</u> <u>12 in. Appliances $> 50,000$ Btu/hr $\leq 150,000$ Btu/hr</u> <u>Appliances $> 150,000$ Btu/hr In accordance with manufacturers' instructions, but, in no case less than 12 in.</u>	<u>4 ft below or to side of opening or 1 ft above opening</u>

Maine Laws & Rules

Chapter 6

The Fuel Board does NOT adopt vehicle protection requirements in 58.

Instead, we have adopted our own.

Maine Laws & Rules

Vehicle Protection

Everyone understands the “3 ft” rule?

(We do accept 32” tall concrete
highway barriers)



Maine Laws & Rules

Vehicle Protection

Are you aware that 2' is required
between the installed vehicle
protection and the propane container?





Maine Laws & Rules

ASME Stamp Requirements

When does your particular installation
require the vessel to have an ASME
stamp?

BSG

CALDAIE A GAS



Certified by
Cooperativa Fonderia Dante
Verona - Italy (EU)

H MAWP, water 58 psi
Maximum water Temp. 245 °F
Minimum relief valve capacity 510 MBH

MADE IN ITALY

Maine Laws & Rules

ASME Stamp Requirements

Boilers

If the rated relief valve is greater than
30 PSI ...

It must have an ASME stamp

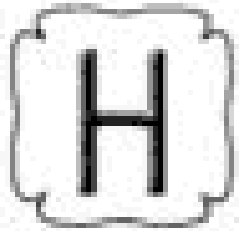
Maine Laws & Rules

ASME Stamp Requirements

Water Heating Vessels

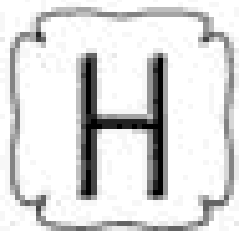
- Greater than 200k BTU/h
- Water temp. greater than 210 F
- 120 gallon or more tank capacity

Must have an ASME stamp



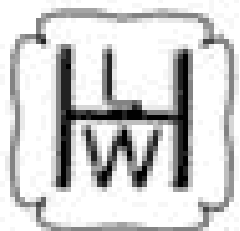
H*

Cast Iron Heating Boilers



H

Heating Boilers, other



HLW

Lined Potable Water Heaters



HV**

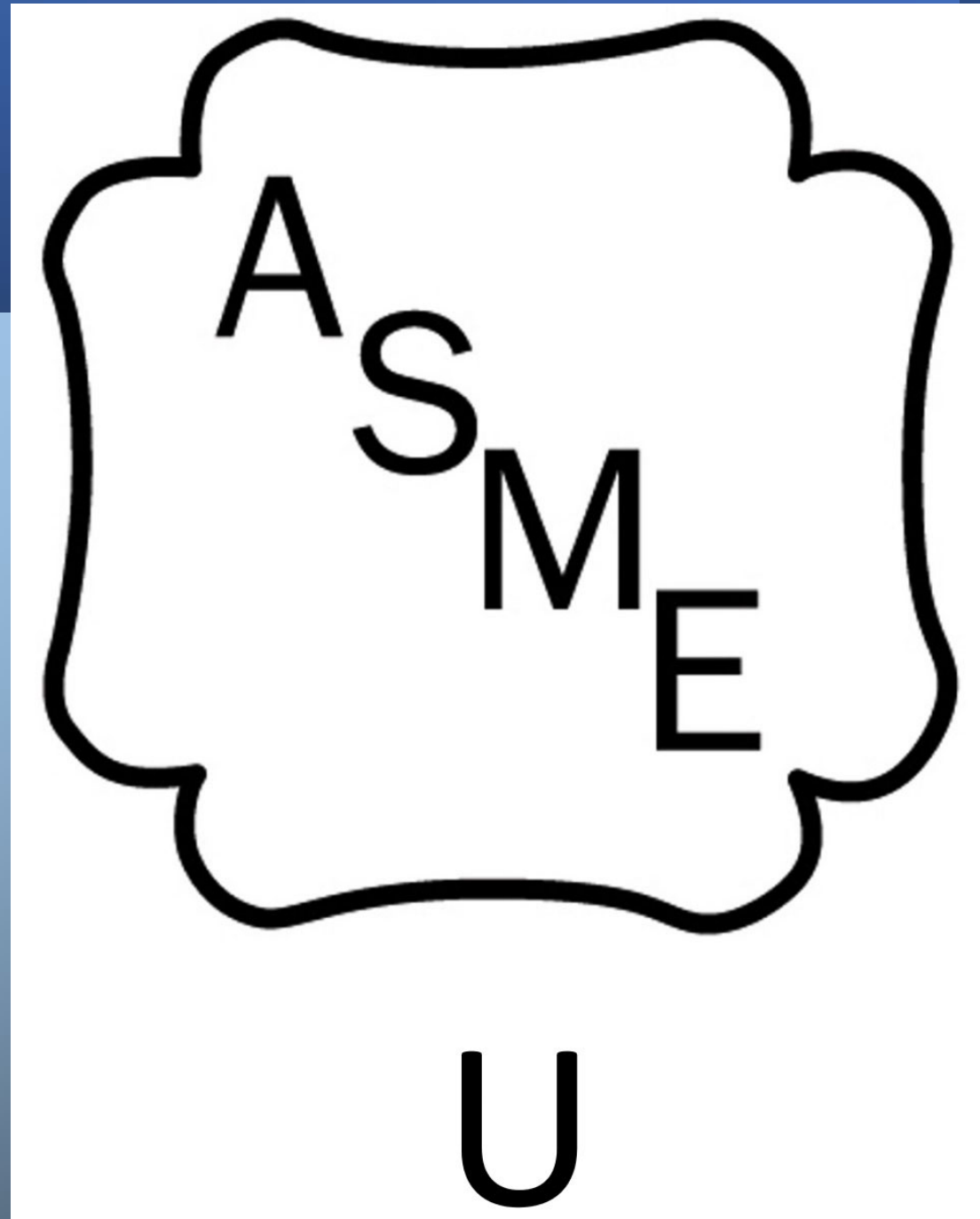
Heating Boilers Safety Valves

Maine Laws & Rules

ASME Stamp Requirements

If the rated relief valve is greater than
30 PSI ...

The expansion tank must be ASME
rated



Maine Laws & Rules

All commercially owned propane containers must be identified with:

- Name of the tank owner
 - Contact Number
- Must be visible to emergency responder

Maine Laws & Rules

If your company has bought out another company or have acquired a propane container with obsolete contact information on it ...

Update it!









Maine Laws & Rules

All consumer owned propane containers must be identified with:

1" high letters stating

“Consumer Owned”

Questions?