

# Bill as Introduced

HB 1688 - AS INTRODUCED

2010 SESSION

10-2933

10/04

HOUSE BILL **1688**

AN ACT relative to the regulation of the installation and operation of boiler and pressure vessels.

SPONSORS: Rep. Hawkins, Hills 18; Rep. S. Harvey, Hills 21; Rep. McGuire, Merr 8; Rep. F. Holden, Hills 4; Sen. Merrill, Dist 21

COMMITTEE: Executive Departments and Administration

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ANALYSIS

This bill requires the state building code review board to adopt certain code requirements concerning biomass burning boilers which are inspected and subject to enforcement by the department of labor.

This bill is a request of the committee established by SB 98 of the 2009 legislative session to study state regulations governing installation of boilers, pressure vessels, and related high performance HVAC equipment.

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Explanation: Matter added to current law appears in **bold italics**.  
Matter removed from current law appears [~~in brackets and struck through~~].  
Matter which is either (a) all new or (b) repealed and reenacted appears in regular type.

STATE OF NEW HAMPSHIRE

*In the Year of Our Lord Two Thousand Ten*

AN ACT           relative to the regulation of the installation and operation of boiler and pressure vessels.

*Be it Enacted by the Senate and House of Representatives in General Court convened:*

1           1 New Section; State Building Code; Biomass Burning Boilers. Amend RSA 155-A by inserting  
2 after section 3 the following new section:

3           155-A:3-a Code Requirements; Biomass Burning Boilers.

4           I. Notwithstanding any provisions of the state building code or state fire code, the board  
5 shall adopt a code and amendments thereto which shall regulate the installation and operation of  
6 biomass burning boilers. The code adopted shall meet or include the 1999 EN 303-5 standard  
7 established by the European Committee for Standardization, and shall include requirements for the  
8 safe installation, operation, and repair of such boilers, and for data plates and warning labels  
9 written in English, limits on temperature and pressure with associated relief valves, and the filing of  
10 construction specifications written in English.

11           II. The inspection procedures and enforcement requirements for the commissioner of labor in  
12 RSA 157-A shall apply to the code and amendments adopted by the board under this section.

13           III. The code and amendments thereto adopted under paragraph I shall be ratified by the  
14 adoption of appropriate legislation within 2 years of their adoption. If such code and amendments  
15 are not ratified, then the code and amendments shall expire at the end of the 2-year period.

16           2 State Building Code; Administration of Programs; Commissioner of Labor. Amend RSA 155-  
17 A:2, XI to read as follows:

18           XI. No state agency, authority, board, or commission shall modify the state building code,  
19 unless approved by the state building code review board pursuant to RSA 155-A. Nothing in this  
20 chapter shall affect the statutory authority of the public utilities commission, *the commissioner of*  
21 *labor*, the state board for the licensing and regulation of plumbers, or the state electricians' board,  
22 to administer their respective programs, provided that any changes to codes adopted under the  
23 rulemaking authority of these agencies shall not be implemented until approved by the state  
24 building code review board.

25           3 Boiler and Pressure Vessels; Commissioner of Labor; Rules. Amend RSA 157-A:3, I to read as  
26 follows:

27           I. *To carry out the purposes of this chapter*, the commissioner shall formulate  
28 definitions and adopt rules under RSA 541-A consistent with:

1           (a) The boiler and pressure vessel code of the American Society of Mechanical Engineers  
2 and the National Board Inspection Code as published by the National Board of Boiler and Pressure  
3 Vessel Inspectors, with the amendments and interpretations thereto, ~~to carry out the purposes of~~  
4 ~~this chapter~~; **and**

5           (b) **The code and amendments thereto adopted by the state building code review**  
6 **board pursuant to RSA 155-A:3-a.**

7           **I-a.** In addition, the commissioner may adopt rules under RSA 541-A to facilitate  
8 administration and enforcement of this chapter **and RSA 155-A:3-a.**

9           4 Boiler and Pressure Vessel Installation. Amend RSA 157-A:4 to read as follows:

10          157-A:4 New Boiler and Pressure Vessel Installation. No boiler or pressure vessel which does  
11 not conform to the **applicable codes and amendments thereto and the** rules adopted by the  
12 commissioner governing new construction and installation shall be installed and operated in this  
13 state unless the boiler or pressure vessel is of special design or construction, and is not inconsistent  
14 with the spirit and safety objectives of such **codes and** rules, in which case a special installation and  
15 operating permit may at the commissioner's discretion be granted by the commissioner.

16          5 Maximum Allowable Pressure. Amend RSA 157-A:5, I and II to read as follows:

17           I. The maximum allowable pressure of a boiler [~~carrying the ASME Code symbol~~] or of a  
18 pressure vessel [~~carrying the ASME or API ASME Code symbol~~] shall be determined by the  
19 applicable sections of the code, **amendments thereto, or rules** under which it was constructed and  
20 stamped.

21           II. The maximum allowable pressure of a boiler or pressure vessel which does not carry [~~the~~  
22 ~~ASME or the API ASME Code~~] **a code** symbol shall be computed in accordance with the inspection  
23 code of the National Board of Boiler and Pressure Vessel Inspectors.

24          6 Effective Date. This act shall take effect 60 days after its passage.

# Amendments

Amendment to HB 1688

1 Amend RSA 155-A:3-a, I and II as inserted by section 1 of the bill by replacing it with the following:  
2

3 I. Notwithstanding any provisions of the state building code or state fire code, the board  
4 shall adopt a code and amendments thereto which shall regulate the installation and operation of  
5 biomass burning boilers. The code adopted shall include the 1999 EN 303-5 standard established by  
6 the European Committee for Standardization, and shall include requirements for the safe  
7 installation, operation, and repair of such boilers, and for data plates and warning labels written in  
8 English, limits on temperature and pressure with associated relief valves, and the filing of  
9 construction and emissions specifications written in English.

10 II. The inspection procedures and enforcement requirements for the commissioner of labor in  
11 RSA 157-A shall apply to boilers installed according to the code and amendments adopted by the  
12 board under this section.

13

14 Amend RSA 157-A:5, II as inserted by section 5 of the bill by replacing it with the following:

15

16 II. The maximum allowable pressure of a boiler or pressure vessel which does not carry the  
17 ASME or [the] API-ASME Code *or EN 303-5* symbol shall be computed in accordance with the  
18 inspection code of the National Board of Boiler and Pressure Vessel Inspectors.

# Speakers







# Hearing Minutes

HOUSE COMMITTEE ON EXECUTIVE DEPARTMENTS AND ADMINISTRATION

PUBLIC HEARING ON HB 1688

**BILL TITLE:** relative to the regulation of the installation and operation of boiler and pressure vessels.

**DATE:** February 2, 2010

**LOB ROOM:** 306      **Time Public Hearing Called to Order:**

**Time Adjourned:**

(please circle if present)

**Committee Members:** Reps. Irwin, Harding, Pilotte, P. McMahon, Jeudy, Schmidt, Beck, D. Sullivan, D. Petterson, Houde-Quimby, Flurey, Hawkins, R. Day, Reagan, K. Gould, S. Scamman, McGuire, C. Pratt, D. Ryder and Vita

**Bill Sponsors:** Rep. Hawkins, Hills 18; Rep. S. Harvey, Hills 21; Rep. McGuire, Merr 8; Rep. F. Holden, Hills 4; Sen. Merrill, Dist 21

TESTIMONY

\* Use asterisk if written testimony and/or amendments are submitted.

Rep. Hawkins, prime sponsor, introduced bill.

\*Elizabeth Mitchell, Brendan McVeigh & Ian Rorick, students from Dartmouth College, Rockefeller Policy Research Shop. Students presented power point presentation. See copies in file.

Rep. Hawkins. Bill is the result of 2009 summer study committee

- Would hope interim study with same members
- Boilers EN 303-5 currently can be used in 1 and 2 family units
- Would put in effect only in 2 years to get everything in place -- rules, etc.

\*Bill Degnan, State Fire Marshall. Opposes bill.

- Favors concept, but concerned about European standards as in this bill
- Several US companies currently import ASME compliant boiler
- In European countries -- Germany, United Kingdom, and France have amended the BN 303-5 standards
- One in Plainfield, but had an explosion
- Willing to have experts from his office work with sub-committee

Scott Nichols, owner of BioHeat USA. Supports bill.

- Pressure stays -- European standards do not require penetration of water jacket
- In US all boilers need ASME standards but 1 and 2 family units are exempt from inspection
- Amendments I Europe focus on emissions and not on pressure vessels
- Willing to use ASME safety devices and work with inspection techniques
- Insurance companies won't insure in US

\*Robert Schueler, Senior staff member representing National Board of Boiler & Pressure Vessel Inspectors. Opposes bill.

- Responsible for certification of inspectors
- Many different standards – not interchangeable
- Need to identify specific code
- Language of bill open to interpretation of many codes which would/could be adopted
- Should adopt installation code (will make 40 copies available)
- Code has not changed since 1950's and won't until requested
- ASME – more massive than EN 303-5
- Boiler Board of Review – in individual states can explore acceptance

\*Steve Walker, representing New England Wood Pellet. Supports bill.

- Need was identified by spiking costs of petroleum heat sources
- ASME codes compliant boilers would be too expensive
- Knows of no accidents of any certified boilers of either ASME or EN 303-5
- Appropriate installation if extremely important

Paul Brennan, representing National Board of Boiler and Pressure Vessels Inspectors. Public Member. Opposes bill.

- Difficult harmonization of this conflict between ASME and EN 303-5
- Europeans, in his opinion, unwilling to engage in effective dialogue
- ASME code must be the base standards code

Rebecca Ohler, representing Dept. of Environmental Services (DES)

- Referred to 25 by 25 driving need to consider renewable energy sources
- Desire most efficient – less polluting

Wayne Brigham, Chief Inspector, representing NH Dept. of Labor (DOL) Opposes bill

- Licensed by national
- Inspectors currently would not be trained or licensed in NH for EN 303-5

Eric Steltzer, representing NH Office of Energy and Planning.

- Cooperated in writing thermal renewal report in re: biomass fuel
- Willing to look at them in order to expand NH businesses
- State of NH has to explore these avenues

Christine Farmer, representing NH Dept. of Labor (DOL). Opposes bill. Agreed with Mr. Brigham

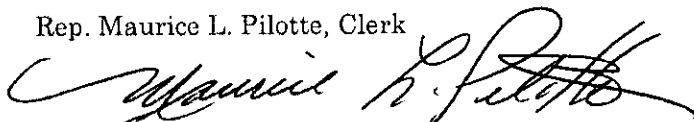
Ronald Thomas commission licensed inspector

- Licensed in NH
- ASME codes are massive – boiler inspectors need to be familiar with these
- Adoption of EN 303-5 code will make certification of both ASME and EN 303-5 extremely difficult

To Ad Hoc Subcommittee: Reps. Hawkins, McGuire, Harvey and Holden

Respectfully submitted,

Rep. Maurice L. Pilotte, Clerk



HOUSE COMMITTEE ON EXECUTIVE DEPARTMENTS AND ADMINISTRATION

PUBLIC HEARING ON HB 1688

BILL TITLE: relative to the regulation of the installation and operation of boiler and pressure vessels.

DATE: February 2, 2010.

LOB ROOM: 306 Time Public Hearing Called to Order: 1:35

Joint w/ Science + Technology Committee Time Adjourned: 3:00

(please circle if present)

Committee Members: Reps. Irwin, Harding, Pilotte, P. McMahon, Jeudy, Schmidt/Beck, D. Sullivan, D. Petterson, Houde-Quimby, Flurex, Hawkins, R. Day, Reagan, K. Gould, S. Scamman, McGuire, C. Pratt, D. Ryder and Vita.

Bill Sponsors: Rep. Hawkins, Hills 18; Rep. S. Harvey, Hills 21; Rep. McGuire, Merr 8; Rep. F. Holden, Hills 4; Sen. Merrill, Dist 21

TESTIMONY

\* Use asterisk if written testimony and/or amendments are submitted.

Rep Hawkins - Introduced the bill.

Elizabeth Mitchell - Student from Rockefeller Policy

Brendan McVay Research Shop - Dartmouth College.

~~Elizabeth Mitchell~~

Jan Rorick

Biomass - See Power Point.

Biomass Boiler codes ASME EN 303-5

Inspections -

Training program for inspectors - Europe train in ASME Code -

6000 - currently -

Mina Program - in USA of EN 303-5 code.

See \*  
Power  
Point

→

Rep Hawkins

- Bill is result of <sup>2009</sup> Summer Study Committee
- Would hope interim study w/same members -
- Boilers EN 303-5 Currently can be used in 1 and 2 family units.
- Would put in effect only in 2 years to get everything in place rules etc.

\* Fire Marshall Degnan - opposed -

- Favors concept - but concerned about European standards as in this bill
- Several U.S. companies currently import ASME compliant Boilers -
- In European countries - Germany, UK, France have amended the EN 303-5 ~~codes~~ standards
- One in Plainfield - but had an explosion
- Willing to have experts from his office work w/ Sub-Committee.

Scott Nichols - Supports - Bioheat USA - owner

- Pressure stays - European Standards do not require penetration of water jacket -
- In US all boilers need ASME standards but 1+2 family units are exempt from inspection
- Amendments in Europe focus on emissions and not for pressure vessels -
- Willing to use ASME safety services - & work w/ inspection techniques
- Insurance companies <sup>won't</sup> insure in U.S.

Robert Schueler - opposed - Natl Board of Boiler & Pressure Vessel Inspectors  
Senior Staff Member

- Responsible for certification of inspectors
- many different standards -
- Not interchangeable -
- Need to specify ~~code~~ identify specific code.

\*  
Will supply  
40 copies  
in

H.B. 1688

P. 2

Robert Schueler

- Language of Bill open to interpretation of many codes which would/could be adapted.
- Should adopt installation code.  
will make <sup>40</sup> copies available
- Code hasn't changed since 1950's -  
won't until requested -  
ASME - more massive than EN 303-5
- Boiler Board of Review - in individual states  
can explore acceptance.

\* Steve Walker N.E. Wood Pellet

- Supports.
- Need was ~~spiked~~ identified by spiking  
costs of ~~off~~ petroleum heat sources.
- ASME Codes <sup>compliant boilers</sup> would be too expensive -
- Knows of no accidents of any certified  
boilers of either ASME or EN 303-5.
- Installation is extremely important  
appropriate.

Paul Borman - National Board of Boiler & Pressure  
Vessels Inspectors

- Public ~~person~~ <sup>Relations</sup> person
- Difficult harmonization of this conflict  
between ASME and EN 303-5
- Europeans, in his opinion, unwilling  
to engage in effective dialogue

7/13/88

P. 3

Paul Brennan →

- ASME code must be the base code - <sup>standards</sup>

Rebecca Ober - NH DES Environmental Services

- Referred to 25 by 25 driving need to consider renewable energy sources
- Desire most efficient less polluting.

Wayne Brigham. ~~NH~~ opposed.

- N.H. Dept of Labor chief inspector
- Licensed by Natl -
- Inspectors currently would not be trained for or licensed in N.H. for EN303-5

Eric Stalter. - Office of Energy & Planning

- ~~City of~~ thermal renewal report. in a business cooperation writing
- willing to look at them in order to expand NH businesses.
- State of NH has to explore these avenues.

Christine Farmer - Dept of Labor -  
- agreed w/ Mr. Brigham

Ronald Thomas





HB 1688

(P. 4)

\* Ronald Thomas - Commission licensed inspector  
- Licensed in NH.

- ASME codes are massive -  
Boiler inspectors need to be familiar w/ these  
Adoption of EN 303-5 code will  
make certification of both ASME  
and EN 303-5 extremely difficult.

AD Hoc -

Sub-comm. The <sup>Hawkins</sup> <sup>McQuire</sup> ~~Henry~~  
K. CAROL, SUZANNE HAWKINS  
Frank Holden

# Sub-Committee Actions

HOUSE COMMITTEE ON EXECUTIVE DEPARTMENTS AND ADMINISTRATION

SUBCOMMITTEE WORK SESSION ON HB 1688

**BILL TITLE:** relative to the regulation of the installation and operation of boiler and pressure vessels.

**DATE:** February 9, 2010

**Subcommittee Members:** Reps. Hawins, McGuire, Harvey, and Holden

**Comments and Recommendations:**

**Amendments:**

Sponsor: Rep. McGuire	OLS Document #:	2010	0561h
Sponsor: Rep.	OLS Document #:		
Sponsor: Rep.	OLS Document #:		

**Motions:** OTP, OTP/A, ITL, Retained (Please circle one.)

Moved by Rep. McGuire

Seconded by Rep. Holden

Vote: 4-0

**Motions:** OTP, OTP/A, ITL, Retained (Please circle one.)

Moved by Rep. Hawkins

Seconded by Rep. Harvey

Vote: 4-0

Respectfully submitted,

Rep. Ken Hawkins  
Subcommittee Chairman/Clerk

HOUSE COMMITTEE ON EXECUTIVE DEPARTMENTS AND ADMINISTRATION

SUBCOMMITTEE WORK SESSION ON

BILL TITLE: *HB 1258*

DATE: *2/9/10 3:10 PM*

Subcommittee Members: Reps. *McGuire, Howb. vs. Harvey, Holden*

Comments and Recommendations:

Amendments:

Sponsor: Rep. *McGuire* ~~*Holden*~~ OLS Document #: *2010-0561 H*  
Sponsor: Rep. OLS Document #:  
Sponsor: Rep. OLS Document #:

Motions:  OTP,  OTP/A,  ITL, Retained (Please circle one.)

Moved by Rep. *McGuire*  
Seconded by Rep. *Holden*  
Vote: *4-0*

Motions:  OTP,  OTP/A,  ITL, Retained (Please circle one.)

Moved by Rep. ~~*McGuire*~~ *Howkins*  
Seconded by Rep. *Harvey*  
Vote: *4-0*

Respectfully submitted,

*[Signature]*  
Rep.  
Subcommittee Chairman/Clerk

Amendment to HB 1688

1 Amend RSA 155-A:3-a, I and II as inserted by section 1 of the bill by replacing it with the following:

2  
3 I. Notwithstanding any provisions of the state building code or state fire code, the board  
4 shall adopt a code and amendments thereto which shall regulate the installation and operation of  
5 biomass burning boilers. The code adopted shall include the 1999 EN 303-5 standard established by  
6 the European Committee for Standardization, and shall include requirements for the safe  
7 installation, operation, and repair of such boilers, and for data plates and warning labels written in  
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10 II. The inspection procedures and enforcement requirements for the commissioner of labor in  
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12 board under this section.

13  
14 Amend RSA 157-A:5, II as inserted by section 5 of the bill by replacing it with the following:

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16 II. The maximum allowable pressure of a boiler or pressure vessel which does not carry the  
17 ASME or ~~the~~ API-ASME Code *or EN 303-5* symbol shall be computed in accordance with the  
18 inspection code of the National Board of Boiler and Pressure Vessel Inspectors.

# Sub-Committee Minutes

HOUSE COMMITTEE ON EXECUTIVE DEPARTMENTS AND ADMINISTRATION

SUBCOMMITTEE WORK SESSION ON HB 1688

**BILL TITLE:** relative to the regulation of the installation and operation of boiler and pressure vessels.

**DATE:** February 8, 2010

**Subcommittee Members:** Reps. Hawkins, McGuire, and Harvey

**Comments and Recommendations:** Need amend to address line 6, Page 2 - line 21, Page 1 - line 12. Recess till 2/9/10 at 3:00 p.m. Please see attached notes.

**Amendments:**

Sponsor: Rep. OLS Document #:

Sponsor: Rep. OLS Document #:

Sponsor: Rep. OLS Document #:

**Motions:** OTP, OTP/A, ITL, Retained (Please circle one.)

Moved by Rep.

Seconded by Rep.

Vote:

**Motions:** OTP, OTP/A, ITL, Retained (Please circle one.)

Moved by Rep.

Seconded by Rep.

Vote:

Respectfully submitted,

Rep. Ken Hawkins  
Subcommittee Chairman/Clerk

HOUSE COMMITTEE ON EXECUTIVE DEPARTMENTS AND ADMINISTRATION

SUBCOMMITTEE WORK SESSION ON

BILL TITLE: *HR 1689*

DATE: *2/8/10 9:30 AM*

Subcommittee Members: Reps. *Harvey, McSwain, Hawkins*

Comments and Recommendations:

*Need Amend to address line 6, P 2 line 22, P 1 line 10, P 1 line D*

Amendments:

*Recess till 2/8/10 3PM*

Sponsor: Rep.

OLS Document #:

Sponsor: Rep.

OLS Document #:

Sponsor: Rep.

OLS Document #:

Motions: OTP, OTP/A, ITL, Retained (Please circle one.)

Moved by Rep.

Seconded by Rep.

Vote:

Motions: OTP, OTP/A, ITL, Retained (Please circle one.)

Moved by Rep.

Seconded by Rep.

Vote:

Respectfully submitted,

Rep.   
Subcommittee Chairman/Clerk



2/18/10

- Page 1488 - under 1,000,000 BTU w/500K BTU NO PERMIT  
line 6 Debate "meat or"  
Page line 22 leave Codes in + Add CE EN 303-5  
& Take out "a Code"  
EN 303-5 Class 3 - ~~lower efficiency~~ min 79.5 efficiency

EPA - looking at Regulating Emissions

Mike Fitzgerald - DES - Regulate Emissions only  
Permit 3 mil BTU Solid Fuel

Page line 10 Efficiency standards  
191 <sup>11/11</sup> boilers installed per

2/19/10 Amend 0561 McGuire Holden

Mike Coal can be used. @

# Testimony

Rockefeller Center at Dartmouth College  
A Center for Public Policy and the Social Sciences

Policy Research Shop

## Biomass Boiler Regulation

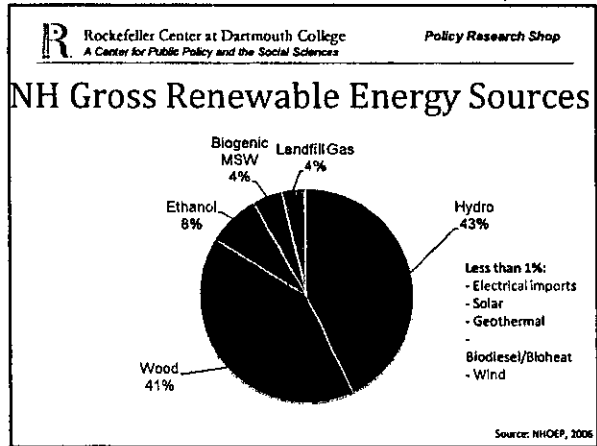
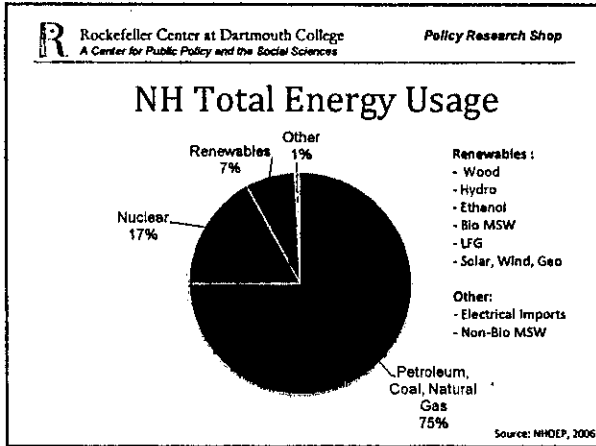
Ben Beckerman  
Brendan McVeigh  
Eli Mitchell  
Ian Rorick

February 2, 2010

Rockefeller Center at Dartmouth College  
A Center for Public Policy and the Social Sciences

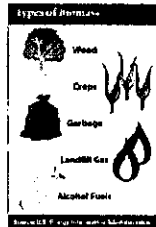
Policy Research Shop

- I. Renewable Energy in NH
- II. Biomass Overview & Viability in NH
- III. US vs. European Boilers  
Advantages, Disadvantages, Obstacles
- IV. Case Studies: MA & OR
- V. Policy Options



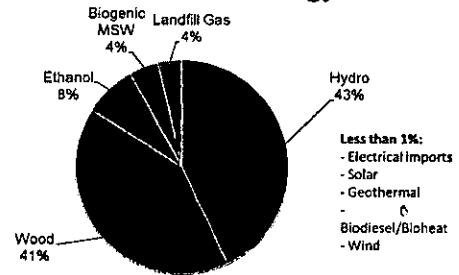
## What is Biomass?

- Wood
  - Pellets, chips, pulp
- Waste
  - MSW, Landfill Gas
- Ethanol Fuels
  - Dedicated crops



- Biomass is a viable renewable energy resource in NH
  - Has potential to help NH reach 25 x 25 goal

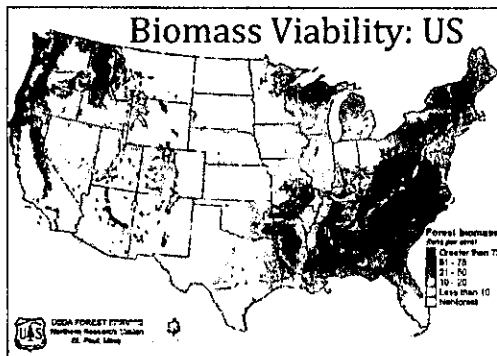
## NH Gross Renewable Energy Sources



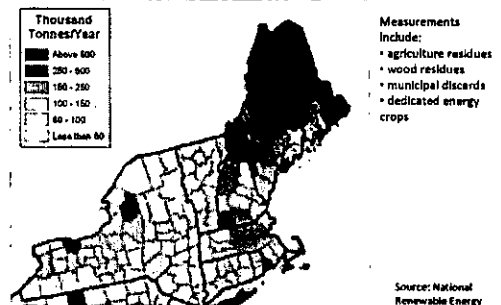
Biomass comprises 60% of NH's renewable resources

Source: NHOEP, 2006

## Biomass Viability: US

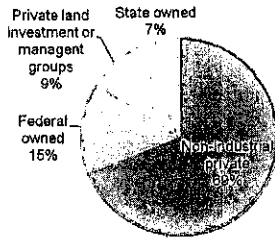


## Biomass Viability: Northeast



Source: National Renewable Energy Laboratory

## NH Forest Ownership



Source: USDA Forest Service, 2002

## 4/2005 - 3/2006 NH Harvests

County	Harvest #	Whole Tree Chips Tons	Pulpwood Tons	Fuelwood Tons	Sawlogs 1000 board ft.
Belknap	202	48,872	37,795	2,457	10,815
Carroll	372	72,542	100,156	2,609	19,980
Cheshire	339	49,529	60,179	8,247	23,240
Coos	367	125,757	503,534	4,980	47,535
Grafton	597	170,425	190,079	5,985	33,982
Hillsboro	377	117,150	42,970	8,334	27,051
Merrimack	494	142,571	69,653	6,882	31,413
Rockingham	251	60,823	24,429	5,137	12,437
Strafford	145	38,871	17,474	3,486	9,413
Sullivan	283	35,890	30,413	3,907	13,717
<b>Totals</b>	<b>3427</b>	<b>862,430</b>	<b>1,076,682</b>	<b>52,024</b>	<b>229,583</b>

Source: NH Division of Forests and Lands

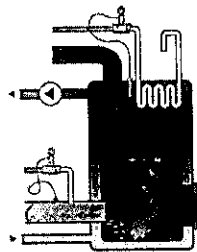
## Biomass Pros and Cons

### Advantages

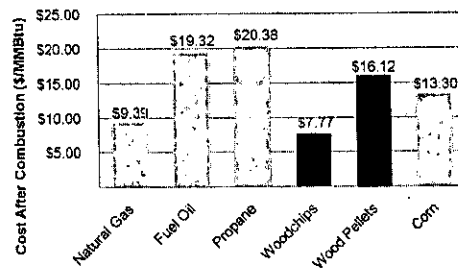
- Theoretically sustainable
- Reduces reliance on fossil fuels
- Stable, lower prices
- Carbon neutral (debated)

### Disadvantages

- Pollution, Particulates
  - 7 Edinburgh schools
- Cost of transporting/harvesting



## Fuel Cost Comparison



Source: Biomass Energy Resource Center, March 2008

## Other Biomass Costs

Cost Estimates and Fuel Usage

	Cost (includes Fuel Storage and Delivery Systems)	Annual Fuel Consumption (Tons)	Fuel	Equipment Oil (Gallons)	Current Fuel Content
Residential Pellet Boiler	\$18,000	2.5	Pellets	1,000	27%
Home Stove	\$2,500	3.0	Pellets	375	14%
Commercial Wood Stove	\$2,500	8.0	Hardwood	600	14%
Commercial Outdoor Wood Boiler	\$8,000	17.1	Hardwood	1,200	14%
Commercial/Industrial Pellet Boiler (100-500 kw)	\$700,000	258	Pellets	61,865	1.0%
Commercial/Industrial Pellet Boiler (500-1,000 kw)	\$250,000	633	Pellets	20,165	1.0%
Commercial/Industrial Pellet Boiler (1,000-1,500 kw)	\$1,100,000	2,333	Pellets	313,650	1.0%
Commercial/Industrial Chip Boiler (1,000-1,500 kw)	\$1,700,000	600	Dry Chips	30,200	1.0%
Commercial/Industrial Chip Boiler (500-1,000 kw)	\$1,400,000	1,012	Dry Chips	50,165	1.0%
Commercial/Industrial Chip Boiler (1,000-1,500 kw)	\$2,450,000	460.8	Dry Chips	318,890	1.0%

Source: Maine Energy Council, August 2009

## Biomass in NH: Harris Center

- Conservation center in Hancock, NH
- First wood pellet boiler in NH public building (10,000 sq ft)
- 90% efficiency
- Costs about \$1,700/year
  - Compared to \$4,220/year with fuel oil
  - 40% annual savings



## Biomass in NH: Crotched Mountain

- Rehabilitation Center in Greenfield, NH
- 2 wood boilers heat approx. 250,000 sq ft
- Estimated \$250,000 in annual energy savings
- 2 stage system for particulate control removing a 10 fold increase in PM
- Tandem boilers with different capacities to increase efficiency



## Biomass Boilers

- ASME (American Society of Mechanical Engineers)
  - Current standards used in NH and most other US states
- EN 303-5
  - Currently used in European Union
  - Not currently approved for use in NH
  - Seem to be more efficient, cleaner, and safer than ASME boilers

## EN303-5 Efficiency Advantages

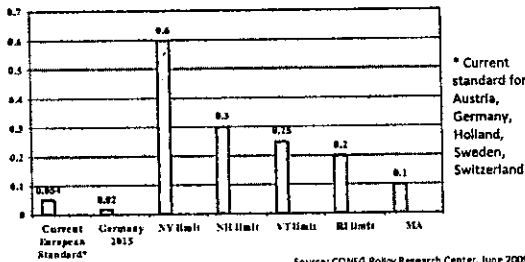
- Higher efficiency ratings
  - Around 90% efficiency rating of new European boilers compared to 70% to 80% for US boilers
- Efficiency ratings measure the percentage of energy in the fuel that is converted into heat for the building

## EN303-5 Emissions Advantages

- European biomass boilers have considerably lower emissions than American boilers:
  - Up to 90% reduction in emissions compared to older US technologies
- The highest performing European boilers have emissions comparable to oil and natural gas boilers

## Comparison of Particulate Emission Limits for Units Sized from 1 to 10 Million Btu (lb PM emission/MMBtu)

- EPA promulgating new rule on PM emissions for boilers



## EN303-5 Safety Advantages

- Main Risk: Burnback
- Similarities:
  - Temperature sensors
  - Water-releasing device
  - Automatic shutdown
- Differences:
  - EN 303-5 test pressures each vessel, ASME tests only one
  - ASME stays penetrate firebox walls

## So Why Not?

- EN303-5 boilers could help NH achieve its **25 x 25 goal** in a cleaner and more efficient manner
- But they are not currently approved in NH
- Despite the higher efficiency and lower emissions ratings there are **key differences** between US and European boilers; and **obstacles** to allowing European ones in NH

## ASME, EN 303-5 Test Differences

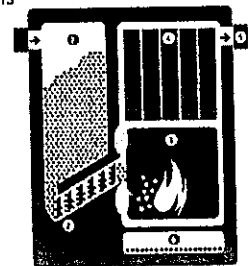
- Test firing rates
  - ASME: four burn rates at 15%, 15-30%, 30-50% and maximum capacity
  - EN 303-5: two tests at nominal load and 30%
- Particulate matter sampling methods
  - ASME: dilution tunnel sampling
  - EN 303-5: hot filter sampling techniques

## Test Differences, Continued

- Fuel used for tests
  - ASME: crib (dimensional lumber)
  - EN 303-5: cordwood (random)
  - Moisture content
- Inspector
  - ASME: Authorized Inspector
  - EN 303-5: Notified Body evaluated by TUV or DNV

## Difference: Welded Pressure Stays

- ASME: penetrate firebox walls
  - Combustion corrodes stay
- EN 303-5: do not penetrate firebox walls







## Technical Differences

- Steel used for Pressure Retaining Plate:
  - ASME: ASME SA-285, Grade C
  - EN 303-5: 10025, Type 5235JR
- Required thickness of Pressure Retaining Plate:
  - ASME: refers to cylindrical shells
  - EN 303-5: allows for rectangular vessels
  - ASME Section IV states that proof tests can be used to determine required thickness of vessels not specified in standards



## Obstacles for Implementing EN 303-5

- Insurance Coverage
  - Insurance companies may be less willing to insure boilers that do not meet ASME standards
- Inspection and Maintenance
  - NH inspectors unfamiliar with EN 303-5 boilers
  - Manuals, procedures, and measurements may need to be converted
- Building and fire codes
  - Must be updated to allow the new standard



## Case Studies

- **Massachusetts** considered accepting European standards, but did not because:
  - Repairs would not be in compliance with National Boiler and Pressure Vessel Inspection Code
  - Didn't consider the standards equivalent
  - Unsure of sustainability of biomass
- **Oregon** changed standards to allow European boilers on January 1, 2009
  - Non-ASME boilers must have comparable safety standards
  - Change has not caused an increase in European boilers being used in the state



## Goals

New Hampshire is capable of achieving its 25 x 25 initiative:

- Biomass is a viable and significant resource in NH
- ASME boilers currently harness this opportunity, but not with maximum efficiency or cleanliness

## Policy Options

To reach 25 x 25 in a clean and efficient manner:

- Reduce maximum allowable particulate emissions for biomass boilers to encourage innovation
- Allow EN 303-5 certified biomass boilers in New Hampshire to expand consumer choice of high efficiency, low emissions boilers
- Await announcement of EPA's new regulation on smaller, commercial boilers, including biomass (expected this year)

## Selected Bibliography

- Biomass Boiler and Furnace Emissions and Safety Regulations in the Northeast States by CONEG Policy Research Center, Inc. for MA Dept. of Energy Resources. June 2009.
  - The report explores the ASME and European emissions and safety regulatory requirements that dictate the current technologies and markets for residential and commercial biomass boilers. The report also presents the challenges and opportunities for states to harmonize the two standards.
- Solid-Fuel Heating Boilers Constructed to the Provisions of EN 303-5 by Kevin Kennedy & Associates for BioHeatUSA. April 2009.
  - This report reviews the ASME and EN 303-5 codes and concludes that the European boilers meet ASME code and are just as safe as ASME-approved boilers.



# STATE OF NEW HAMPSHIRE DEPARTMENT OF SAFETY

John J. Barthelmes, Commissioner

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## TESTIMONY IN OPPOSITION TO HOUSE BILL 1688

House Executive Departments and Administration

February 2, 2010

Good afternoon, Madam Chairman and Honorable members of the committee. My name is Bill Degnan, New Hampshire State Fire Marshal, and I am here to speak in opposition to House Bill 1688.

House Bill 1688 which is relative to the regulation and operation of boiler and pressure vessels essentially allows the use of a standard that does not meet the current recognized standards used in New Hampshire. I ask that you consider these items during your deliberation on this bill.

- HB 1688 intends to adopt a standard that has yet to be approved by the regulatory agencies authorized and mandated by the Legislature to do so. This bill does not recognize the present responsibilities for boilers by the State Fire marshal and the Department of Labor for these pressurized vessels.
- HB 1688 specifies the 1999 version of EN 303-5 standard, yet we cannot find any sound reasoning why we should deviate from the nationally recognized and accepted standard for such devices that are presently used.
- HB 1688 does not take into effect the prescriptive standards of ASME or API code standards when compared to the performance standard used in EN 303-5.
- European manufacturers currently build and assemble boilers built to the ASME standards for sale in the United States. The Buderus Company of Londonderry NH is the largest importer of cast iron Buderus Boilers from Germany. The Burnham and Utica Boiler Companies import some of their castings and components from Europe as well. All of these products are designed and constructed to the current ASME standards. Burnham currently retrofits their boilers for biomass.
- HB 1688 does not take in to effect that all of the European countries have adopted different versions or have placed varying exception and restrictions onto the EN 303-5 standard. With this in mind which standard and with what additions, restrictions or requirements does this bill intend to use when accepting these products?
- HB 1688 would intentionally reduce long accepted safety and construction standards for pressurized vessels in New Hampshire, by eliminating or significantly reducing the effectiveness of proven standards designed to protect building occupants from explosion or fire.

- Eliminating language proposed in HB 1688 (157-A:5 I and II) reduces the level of protection afforded to all residents, citizens, and visitors of our state by permitting unknown and unproven industry standards that have no viable comparison testing to support acceptance of their current standard.
- If the argument proposed by HB 1688 is to promote the use of Biomass energy; then we would offer to the legislature several US and Canadian firms currently manufacturing these products and marketing them in New Hampshire under the current safety standards.
- If the legislature has concerns over higher efficiency claims; we would submit that all established reports on biomass products are at best subjective. Industry reports agree that manufacturers have too much leeway in efficiency claims. Five European Countries can not agree on which efficiency standard to accept. Which standard are we to accept as "more efficient" from the EN 303-5 claim?
- There is case history of a European boiler failure in New Hampshire which caused significant damage to the dwelling.
- The boiler installation and operation industry is not only regulated by NH Department of Labor but by the boiler insurance industry that must stand behind these units financially. While this legislation may reduce the level of public safety by permitting an inferior product to be sold and installed. There may be a financial impact on the insurance industry and those that they insure.
- The introduction of a product into our state that has a reduced level of protection for the consumer presents an unfair labor and business practice for those New Hampshire firms who have been selling, installing, and operating, biomass energy products under the current standards. There are established firms currently installing ASME certified biomass boilers in schools and public buildings today.
- Lowering any accepted standard poses a risk to public safety at some level. The Legislature has always seen fit to permit local municipalities the right to strengthen and/or enhance the codes but has forbid them to weaken any standard. Seems to make good sense.

Thank you for your consideration.

## HB 1688

- Introduction
  - I am Steve Walker, founder, President and CEO of New England Wood Pellet, LLC.
  - Founded in 1992 the company is currently headquartered in Jaffrey, NH.
  - The company sold 130,000 tons of wood fuel pellets last year, heating an estimated 40,000 homes.
  - Installed one of the first high efficiency boilers in the US (10 years ago).
  - Directly employ over 80 people, mostly in NHAs a direct result of our operations there are hundreds of other people employed.
- The goal
  - To provide a heating solution that is environmentally superior, locally made, and economical.
- Back ground
  - We are first and foremost a fuel manufacturing company. Businesses, governments, schools, nonprofits, have wanted to use our fuel to heat their buildings for years. The reason most have not, is you first need an appliance (boiler) to use our fuel (pellets) and only together, can they meet their goal; a heating solution that is environmentally superior, locally made, and economical Today there are dozens of manufacturers, each producing different high efficiency boilers in the world. Only recently were any of them to code in NH, this is the similar situation in other states. The very few that are up to NH code cost considerably more than necessary and from our stand point priced too high for most to justify.
  - 2 years ago our company started a division to introduce highly developed European pellet boiler technology to the US. It took hundreds of thousands and nearly 2 years to get our first fully to code boiler ready for sale.
  - Much of the challenge was dealing with the ASME code requirements.

- Why this bill?

There are 2 primary challenges with the ASME code:

- 1. It is not compatible with many other codes and especially the European codes, which is where the vast majority of the world's high efficiency biomass boilers are made. Examples are the ASME requires only ASME steel be used. This is generally not readily available outside the US and Canada. The ASME requires specific types of welding, not better or worse than the European code but different enough to necessitate tooling changes. The list goes on.
- 2. ASME uses a 3.5 to 1 safety margin in most of their calculations. The ASME pressure vessel code is 100 years old and a lot has changed in the last 100 years in the area of quality control. 100 years ago this may have been a sensible practice, but in my opinion it is an excessive use of steel. Few things, if any are made with a 3.5 to 1 safety margin including airplanes which are built to a 1.5 to 1 safety margin. The European codes are still very conservative, often using a 2 to 1 margin.

- Benefits

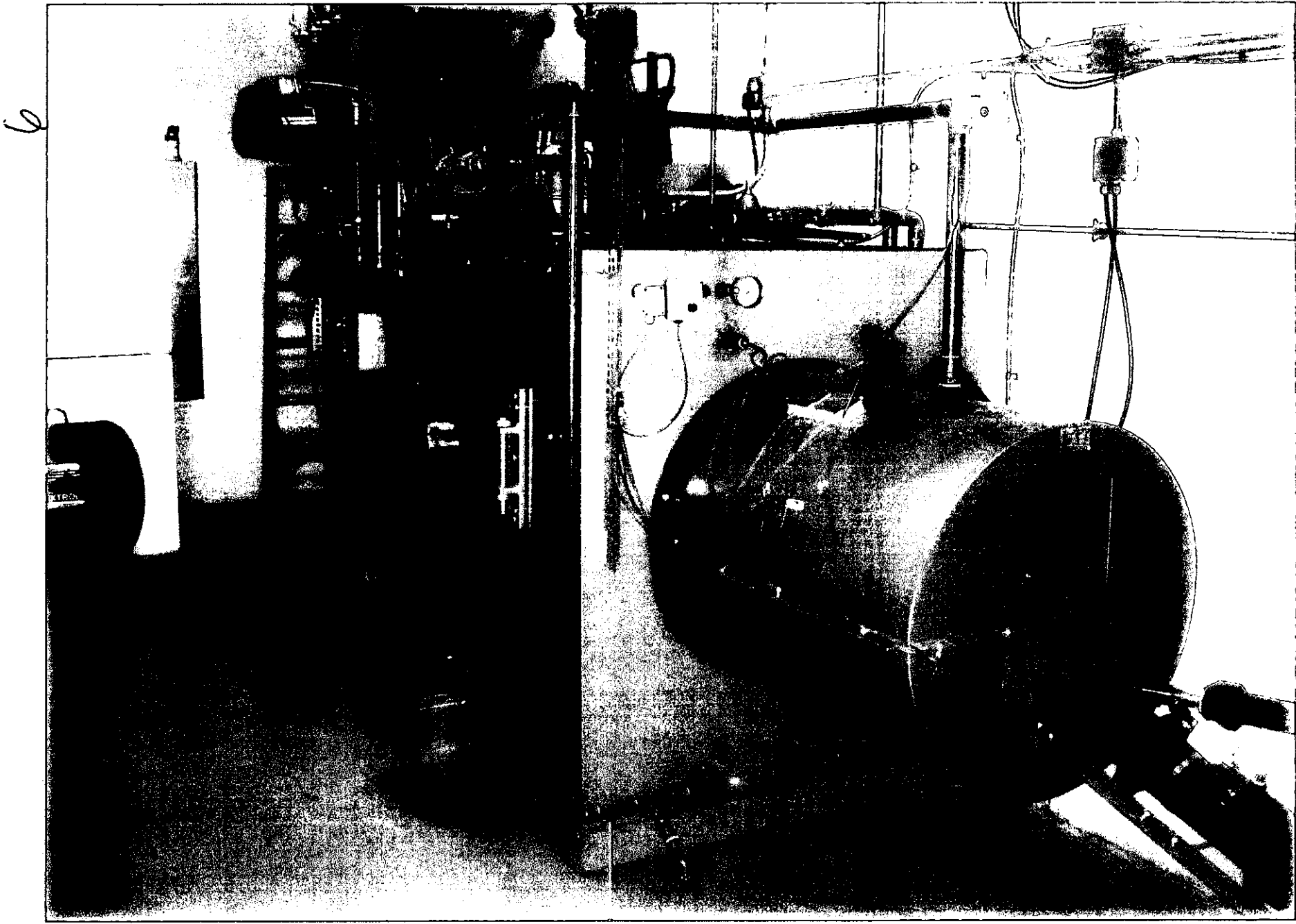
- More consumer choice.
- Cleaner, more efficient equipment.
- Chose from companies with years of experience.
- Help achieve more renewable energy for NH.
- Create new jobs.
- Ultimately help create a whole new industry for NH and the US.

- Liabilities

- It has been said this may create a safety issue, but no evidence of any kind has been provided.
  - It has been said this will create an administrative and inspection challenge. My response is rules and regulations are for the benefit of the general population not individual administrators and inspectors.
- It has been said that there are ASME boilers available and this bill is unnecessary. My response is "yes, this is true". However, these boilers come at a substantial price increase. The availability of an ASME boiler is now and will be in the foreseeable future very limited and more expensive.

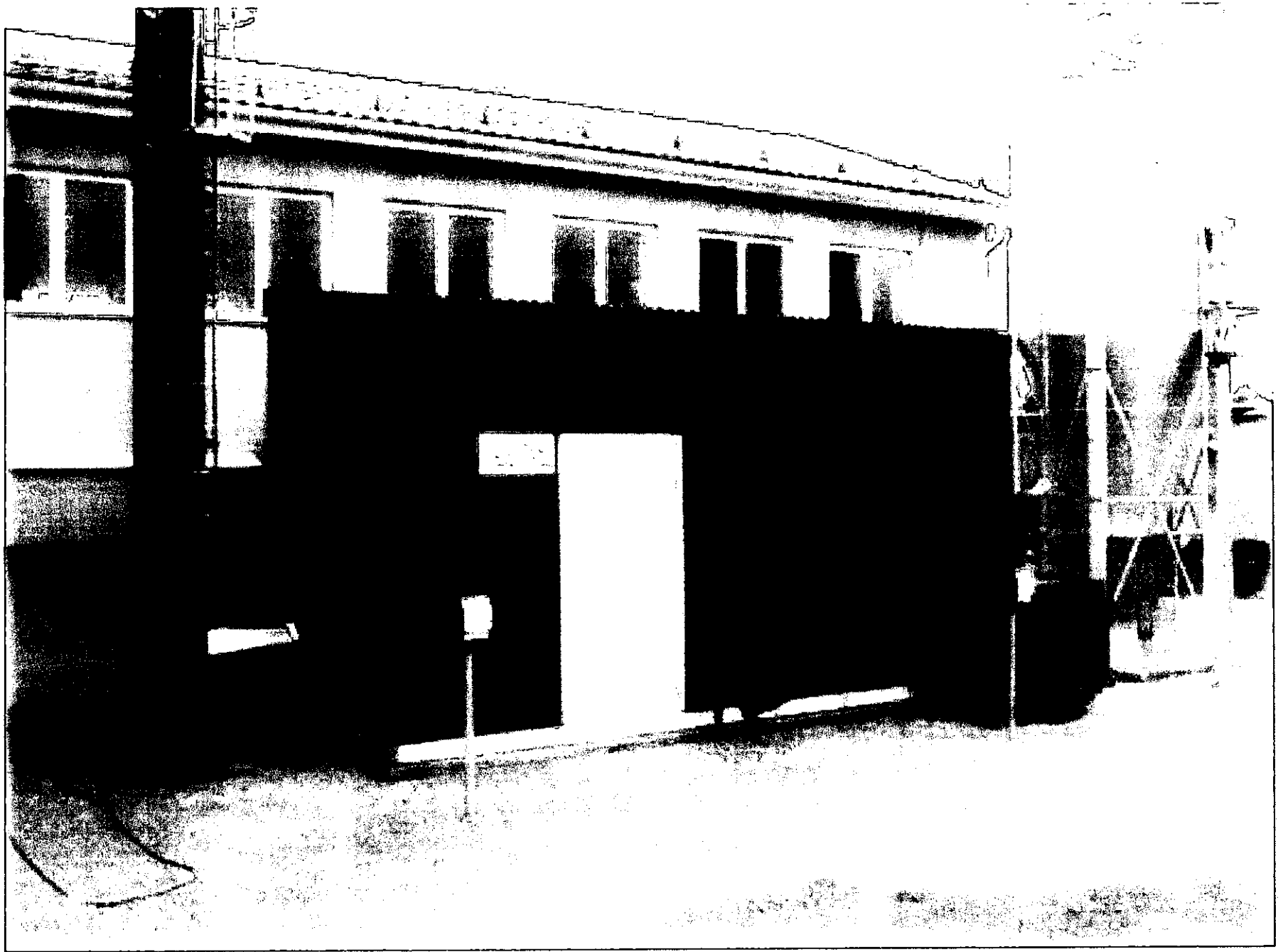
- Conclusion

- We are just one of many companies that could grow and hire more people with the lowering of obstacles. Many of these being the unintended consequences of past regulation.
- Our company, like many has cut back production and laid off good workers recently. We are sitting on the largest inventory we have ever had. At the same time surrounded with thousands of buildings that could use our clean locally made fuel and save money. However, they can't afford or access the right appliance. Please help change that.
- The cost and lack of availability of an acceptable appliance is making this impossibility for many. Please help change that.



Sweco boiler system at 81 Fitzgerald Drive Condo Association, Jaffrey NH

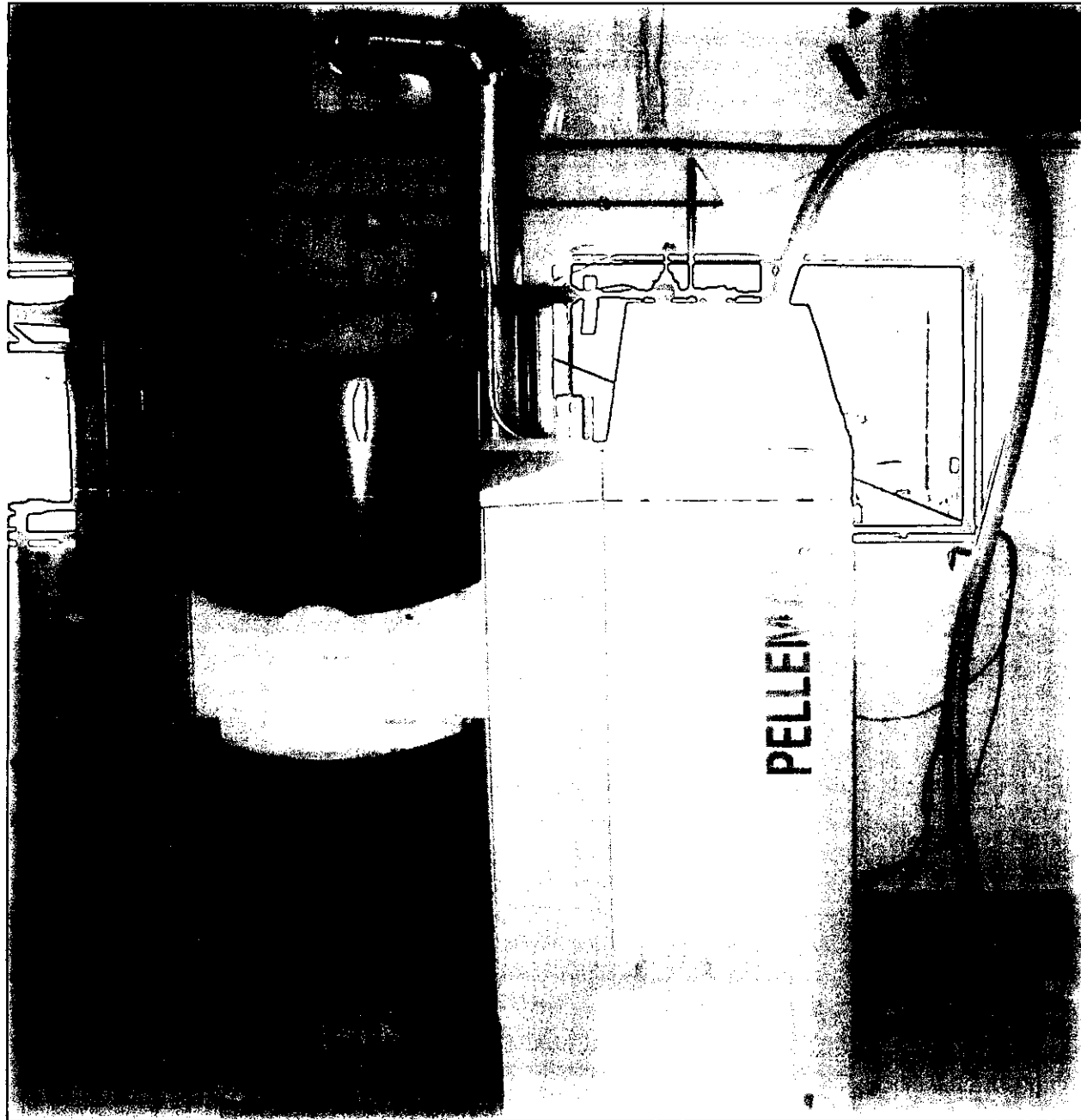




Container System with silo storage



Wood pellet fuel delivery, NHBB Peterborough NH



OkofEN Wood Pellet Boiler

Complete Document

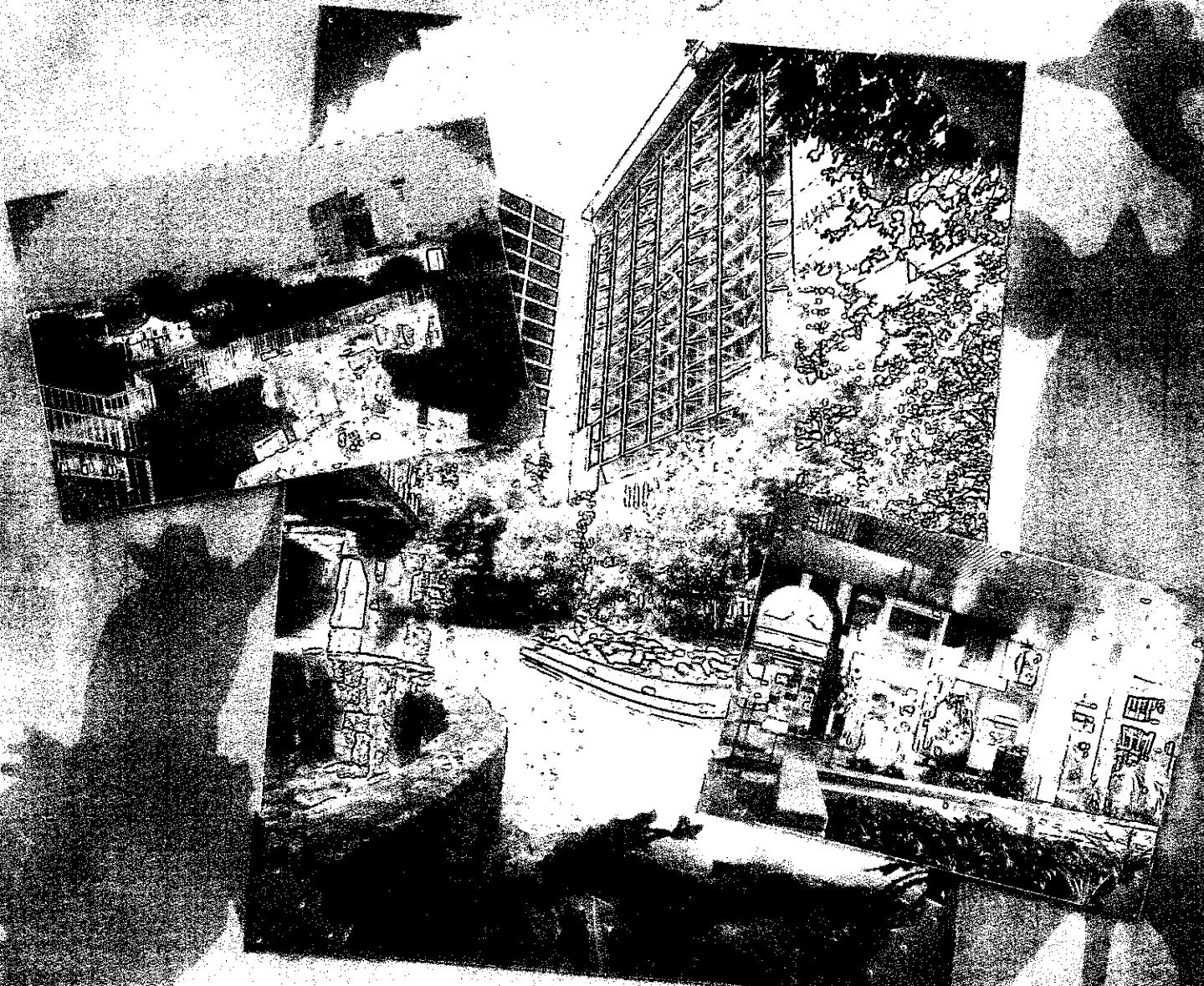
Can Be Viewed

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# The 79<sup>TH</sup> General Meeting

May 3-7, 2010



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David Douin and Robert Aben discuss the National Board.

Read more on Page 18.

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The National Board of Boiler and Pressure Vessel Inspectors was organized for the purpose of promoting greater safety by securing concerted action and maintaining uniformity in the construction, installation, inspection, and repair of boilers and other pressure vessels and their appurtenances, thereby assuring acceptance and interchangeability among jurisdictional authorities empowered to assure adherence to code construction and repair of boilers and pressure vessels.

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## 7 Designation

Each heating boiler shall have a data plate. The boiler data plate shall be written in the language of the boiler's country of destination and be affixed in an accessible spot.

### 7.1 Information on the boiler plate

The boiler plate shall contain at least the following:

- a) name and company domicile of the manufacturer and, where available, the manufacturer's symbol;
- b) trade designation, type under which the boiler is marketed;
- c) production number and year of construction (coding is permissible at the manufacturer's discretion);
- d) nominal heat output and heat output range in kW for each type of fuel;
- e) boiler class;
- f) maximal allowable operating pressure in bar;
- g) maximal allowable operating temperature in °C;
- h) water content in l;
- i) electrical connection (V, Hz, A) and wattage in W.

### 7.2 Data plate requirements

The material and labelling used for the plate shall be durable. The labelling shall be abrasion-proof. Under normal operating conditions the plate shall not discolour so as to make its information difficult to read.

NOTE: Self-adhesive plates should not become detached as a result of moisture and temperature.

## 8 Technical documentation, supplied with boiler

For each boiler the documents listed below shall be available, preferably in the language of the boiler's country of destination; the documents specified under 8.1 and 8.2 shall be enclosed with every boiler.

### 8.1 Technical information and installation instructions

These documents shall contain at least the following indications:

- necessary draught in mbar;
- water content in l;
- exhaust gas temperature at nominal heat output and minimum heat output in °C;
- exhaust mass flow at nominal heat output and at minimum heat output in kg/s;
- flue pipe diameter in mm;
- water-side resistance in mbar;
- nominal heat output and heat output range for each type of fuel in kW;
- boiler class;
- combustion period in hours for each type of fuel at  $Q_N$ ;

iler's

- setting range for the temperature controller in °C;
- minimal return temperature at boiler return tapping in °C;
- fuel type and water content as well as fuel size;
- filling chamber capacity in litres and filling opening dimensions in mm;
- necessary accumulator storage in litres if  $Q_{min} > 0,3 Q_N$ ;
- auxiliary power requirement in W;
- cold water temperature and pressure for safety heat exchanger in bar;
- electrical connections incl. appliance- and main-switch-off.

The installation instructions shall contain information concerning:

- the on-site assembly of the boiler (if necessary) and the required water pressure test as per 5.4.2 or 5.5.2.2;
- the installation;
- the commissioning, with information on the boiler output to be set in the output range;
- instructions on the location and fitting of the sensors for the control, display and safety equipment.

In addition the documentation shall in general contain references to the Standards and Regulations to be observed on the safety equipment of the installation.

## 8.2 Operating instructions

The operating instructions shall contain references to:

- the operation of the boiler, stoking and opening doors without risk;
- cleaning and cleaning intervals, including the equipment required for the cleaning operations;
- measures to be taken in the event of malfunction;
- the reasons for recommending a regular, competent maintenance service and the necessary maintenance intervals;
- the type of fuel and water content and the fuel size (with the direction of the layers in the case of wood chips);
- the maximum filling height for fuel in the filling chamber;
- the combustion period for fuel types at nominal heat output.

Other documents (brochures, etc.) shall not contain any information that is in contradiction with those of the operating instructions.

try of



Annex A (informative)

A-Deviations:

A-Deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CEN/CENELEC member.

The requirements in clause 4.2.1 and clause 4.2.6 of this European Standard do not fall under any Directive of the EU. In the relevant CEN/CENELEC countries these A-deviations are valid instead of the provisions of the European Standard until they have been removed.

A.1 Deviations from Austria:

Clause 4.2.1

Figure 1: Boiler efficiency

Clause 4.2.6

Table 7: Emission limits

EN 303-5 conflicts with the Austrian law (Art. 15 a B-VG "Vereinbarung über Schutzmaßnahmen betreffend Kleinf Feuerungen" und Art. 15 a B-VG "Vereinbarung über die Einsparung von Energie", November 1994). Austria has stricter limits concerning boiler efficiency and emissions. So it is necessary to include the following A-deviation.

A.1.1 Boiler efficiency for nominal heat output and minimum heat output:

- a) stoking by hand
  - up to 10 kW 73 %
  - over 10 to 200 kW  $(65,3 + 7,7 \log Q_N) \%$
  - over 200 kW 83 %
- b) stoking automatically
  - up to 10 kW 76 %
  - over 10 to 200 kW  $(68,3 + 7,7 \log Q_N) \%$
  - over 200 kW 86 %

A.1.2 Emission limits:

		Emission limits in mg/MJ <sup>1)</sup>			
		CO	NO <sub>x</sub>	OGC	dust
Stoking by hand	biogenic types of fuels	1100	150 <sup>2)</sup>	80	60
	fossil types of solid fuels	1100	100	80	60
Stoking automatically	biogenic types of fuels	500 <sup>3)</sup>	150 <sup>2)</sup>	40	60
	fossil types of solid fuels	500	100	40	40

<sup>1)</sup> In relation to the energy content (net calorific value) of the fuel used.  
<sup>2)</sup> The NO<sub>x</sub>-limits apply only to wood fired boilers.  
<sup>3)</sup> At partial load with 30 % of the nominal heat output, the limit may be exceeded by 50 %.

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## A.2 Deviations from Germany:

Clause 4.2.6

Table 7

The emission limits are regulated in the German regulation "Bundes-Immissionsschutzgesetz (Kleinfeuerungsanlagen - Verordnung - 1. BImSchV) dated 1997-03-14.

Therefore, only class 3 of table 7 is acceptable for Germany.

Heating boilers for solid fuels with a nominal heat output greater than 15 kW have to be constructed and operated that the emissions in dependance of the used fuel the following requirements fulfill:

- 1) for bituminous and brown coal:
  - dust: 0,15 g/m<sup>3</sup> (in relation to a volume content of O<sub>2</sub> in the exit flue of 8 %);
- 2) for wood in natural state:
  - dust: 0,15 g/m<sup>3</sup> (in relation to a volume content of O<sub>2</sub> in the exit flue of 13 %);
  - carbon monoxide (in relation to a volume content of O<sub>2</sub> in the exit flue of 13 %).

Nominal heat output $Q_n$ in kW		CO in g/m <sup>3</sup>
up to	50	4
over	50 to 150	2
over	150 to 500	1
over	500	0,5

Therefore only fuels appropriate to 1. BImSchV, § 3, are permissible.

## A.3 Deviations from United Kingdom:

Clause 4.2.6

Table 7

The UK legislation in respect of Clean Air is consolidated in the Clean Air Act 1993 (c11). This Act lays down legislative requirements regarding emissions from solid fuels and solid fuel fired appliances in the UK which are more stringent than those in prEN 303-5. The UK Government at this time does not envisage a change to its current legislation or to a lowering of its standards in this respect. The UK therefore requires an A-deviation for Clause 4.2.6 of this standard.

The emission requirements stated in prEN 303-5 conflict with UK law in that Section 1 (1) of the UK 1993 Clean Air Act states "Dark smoke shall not be emitted from a chimney of any building, and if, on any day, dark smoke is so emitted, the occupier of the building shall be guilty of an offence." In applying this general regulation to domestic dwellings the Clean Air Act 1993 (c11) gives local authorities the power to designate Smoke Control Areas within which it is an offence to emit dark smoke. The 1993 Act in Section 20(4) (prohibition of smoke emissions in smoke control area) states "... it shall be a defence to prove that the alleged emission of smoke was not caused by the use of any fuel other than an authorised fuel."

In assessing an Authorised Fuel the Minister has stated that one of the conditions to be satisfied is that the fuel when tested in an open fire in accordance with BS 3841 shall not emit more than 5 g/h of solid particle matter. Once authorised by The Secretary of State the fuel may then be burned in any domestic heating appliance without further assessment of its use on a specified appliance.

Additionally, Section 21 of the 1993 Act states "The Secretary of State may by order exempt any class of fireplace, upon such conditions as he may specify in the order, from the provisions of Section 20 (prohibition of smoke emissions in smoke control area), if he is satisfied that such fireplaces can be used for burning fuel other than authorised fuels without producing any smoke or a substantial quantity of smoke".

In assessing a domestic fireplace (i.e. stove, roomheater or boiler etc.) for exemption (an Exempted Fireplace) the tests and emission guidelines of BS PD 6434 (covering domestic appliances of up to 45 kW nominal output) are employed and cover the measurement and evaluation of the desirable limits of emissions of solid particles at high, intermediate and low output and under conditions of misuse to ensure compliance under all possible continuously operating conditions and outputs.

When assessing commercial and industrial appliances (generally having nominal outputs greater than 25 kW) the smoke requirements stated in Schedule 1 of The Clean Air Act (Emissions of Grit and Dust from Furnaces) Regulations 1971 is employed to show compliance with the 1993 Act. Section 4(2) of the 1993 Act also states "No furnace shall be installed in a building or in any fixed boiler or industrial plant unless the furnace is so far as is practicable capable of being operated continuously without emitting smoke when burning fuel of a type for which the furnace was designed".

Clause 4.2.6 of prEN 303-5 document does not require testing or lay down particulate measurements with maximum limits for an appliance at low and intermediate output or under misuse conditions and therefore compliance with UK legislation in respect of all possible continuously operating conditions and outputs cannot be guaranteed for either domestic or commercial/industrial boilers.

#### A.4 Deviations from Sweden:

Basically this European Standard is in conflict with the general provisions of the Swedish Ordinance for Pressure Equipments.

Materials of the pressure-retaining parts and safety accessories do not fulfil the requirements in Chapter 3, Section 1, in the Ordinance AFS 1994 39.

The design criteria in general and weld joints No. 1.7 and 1.8 in particular are not in accordance with Chapter 8, Section 1.

Clause 4.2.6

Table 7

As the allowable emission Sweden can accept class 3 with the following addition:

- when automatic stoking emission of CO must fulfil the requirements of BFS 1995:17 and BBR 94 chapter 6:73.

For thermal insulation the requirements of BFS 1995:17 and BBR 94 chapter 9:234 must be fulfilled.

BFS and BBR are issued by national Board of House Building and Planning.

#### A.5 Deviations from Switzerland:

Clause 4.2.6

Table 7

The emission limits are regulated in the Swiss Ordinance on Air Pollution Control of 1985-12-16. Therefore, for boilers with natural state wood only class 3 of table 7 is acceptable.

Heat input $Q_N$ in kW (natural state wood)	CO in mg/m <sup>3</sup> at 13 %vol O <sub>2</sub>	dust in mg/m <sup>3</sup> at 13 %vol O <sub>2</sub>
$Q_N \leq 70$	4000	-
$70 < Q_N \leq 200$	2000	150
$200 < Q_N \leq 500$	1000	150
$500 < Q_N \leq 1000$	500	150

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Furthermore, the emission limits for boilers with fossil types of fuels are as follows:

Heat Input $Q_N$ in kW (fossil types of fuel)	CO in mg/m <sup>3</sup> at 7 %vol O <sub>2</sub>	dust in mg/m <sup>3</sup> at 7 %vol O <sub>2</sub>
$Q_N \leq 70$	4000	-
$70 < Q_N \leq 1000$	1000	150

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The use of coal, coal briquettes and coke with a sulphur content > 1 % (mass) is not allowed.

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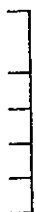
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# Voting Sheets

HOUSE COMMITTEE ON EXECUTIVE DEPARTMENTS AND ADMINISTRATION

EXECUTIVE SESSION on HB 1688

**BILL TITLE:** relative to the regulation of the installation and operation of boiler and pressure vessels.

**DATE:** February 16, 2010

**LOB ROOM:** 306

**Amendments:**

Sponsor: Rep. McGuire	OLS Document #:	2010	0561h
Sponsor: Rep.	OLS Document #:		
Sponsor: Rep.	OLS Document #:		

**Motions:** OTP, OTP/A, ITL, Interim Study (Please circle one.)

Moved by Rep. McGuire

Seconded by Rep. Flurey

Vote: 15-1 (Please attach record of roll call vote.)

**Motions:** ~~OTP~~, OTP/A, ITL, Interim Study (Please circle one.)

Moved by Rep. McGuire

Seconded by Rep. Hawkins

Vote: 15-1 (Please attach record of roll call vote.)

**CONSENT CALENDAR VOTE: NO**

(Vote to place on Consent Calendar must be unanimous.)

**Statement of Intent:** Refer to Committee Report

Respectfully submitted,

Rep. Maurice L. Pilotte, Clerk

HOUSE COMMITTEE ON EXECUTIVE DEPARTMENTS AND ADMINISTRATION

EXECUTIVE SESSION on HB 1688

**BILL TITLE:** relative to the regulation of the installation and operation of boiler and pressure vessels.

**DATE:** February 16, 2010

**LOB ROOM:** 306

Amendments:

Sponsor: Rep.

*McGuire*

OLS Document #:

*2010-05614.*

Sponsor: Rep.

OLS Document #:

Sponsor: Rep.

OLS Document #:

Motions:  OTP,  OTP/A,  ITL, Interim Study (Please circle one.)

Moved by Rep.

*McGuire*

Seconded by Rep.

*Flurey*

Vote: *15-1* (Please attach record of roll call vote.)

Motions:  OTP,  OTP/A,  ITL, Interim Study (Please circle one.)

Moved by Rep.

*McGuire*

Seconded by Rep.

*Hawkins*

Vote: *15-1* (Please attach record of roll call vote.)

CONSENT CALENDAR VOTE:

(Vote to place on Consent Calendar must be unanimous.)

Statement of Intent: Refer to Committee Report

Respectfully submitted,

Rep. Maurice L. Pilotte, Clerk

*Maurice L. Pilotte*

EXECUTIVE DEPARTMENTS AND ADMINISTRATION

Bill #: H.B. 1688 Title: rel to the regulation of the installation and operation of boilers and pressure vessels  
 PH Date: 2 / 2 / 10 Exec Session Date: 2 / 16 / 10  
 Motion: Amendment - OTP Amendment #: 2010-05614.

MEMBER	YEAS	NAYS
Harding, Laurie, Chairman	✓	
Houde-Quimby, Charlotte, V Chairman	✓	
Pilotte, Maurice L, Clerk		✓
McMahon, Patricia M	<i>Absent</i>	
Jeudy, Jean L	✓	
Schmidt, Peter B	✓	
Beck, Catriona D	✓	
Sullivan, Daniel J	✓	
Petterson, Don	✓	
Flurey, Joan S	✓	
Hawkins, Ken	✓	
Day, Russell C	<i>Absent</i>	
Reagan, John M	✓	
Gould, Kenneth H	✓	
Scamman, Stella	✓	
McGuire, Carol M	✓	
Pratt, Calvin D	✓	
Ryder, Donald F	✓	
Vita, Carol M	<i>Absent</i>	

TOTAL VOTE: 15-1  
 Printed: 2/12/2010



EXECUTIVE DEPARTMENTS AND ADMINISTRATION

Bill #: FB-1688 Title: rel. to the regulation of the installation and operation of boiler and pressure vessels  
 PH Date: 2/2/10 Exec Session Date: 2/16/10  
 Motion: OTP/A Amendment #: 2010-05614

MEMBER	YEAS	NAYS
Harding, Laurie, Chairman	✓	
Houde-Quimby, Charlotte, V Chairman	✓	
Pilotte, Maurice L, Clerk		✓
McMahon, Patricia M	<i>Absent</i>	
Jeudy, Jean L	✓	
Schmidt, Peter B	✓	
Beck, Catriona D	✓	
Sullivan, Daniel J	✓	
Petterson, Don	✓	
Flurey, Joan S	✓	
Hawkins, Ken	✓	
Day, Russell C	<i>Absent</i>	
Reagan, John M	✓	
Gould, Kenneth H	✓	
Scamman, Stella	✓	
McGuire, Carol M	✓	
Pratt, Calvin D	✓	
Ryder, Donald F	✓	
Vita, Carol M	<i>Absent</i>	

TOTAL VOTE: 15-1  
 Printed: 2/12/2010

# Committee Report

**REGULAR CALENDAR**

**February 17, 2010**

**HOUSE OF REPRESENTATIVES**

**REPORT OF COMMITTEE**

**The Committee on EXECUTIVE DEPARTMENTS AND  
ADMINISTRATION to which was referred HB1688,**

**AN ACT relative to the regulation of the installation  
and operation of boiler and pressure vessels. Having  
considered the same, report the same with the following  
amendment, and the recommendation that the bill  
OUGHT TO PASS WITH AMENDMENT.**

**Rep. Carol M McGuire**

**FOR THE COMMITTEE**

## COMMITTEE REPORT

Committee:	<b>EXECUTIVE DEPARTMENTS AND ADMINISTRATION</b>
Bill Number:	<b>HB1688</b>
Title:	<b>relative to the regulation of the installation and operation of boiler and pressure vessels.</b>
Date:	<b>February 17, 2010</b>
Consent Calendar:	<b>NO</b>
Recommendation:	<b>OUGHT TO PASS WITH AMENDMENT</b>

### STATEMENT OF INTENT

This bill was developed by the study committee created by SB98, and addresses the building code obstacles to using biomass boilers built under European codes in commercial or government properties. These boilers are more efficient and have lower emissions than most current biomass boilers, and are currently used in single family homes. The amendment tightens the language to ensure that only the specific code the committee considered is adopted.

Vote 15-1.

Rep. Carol M McGuire  
FOR THE COMMITTEE

Original: House Clerk  
Cc: Committee Bill File

## REGULAR CALENDAR

### EXECUTIVE DEPARTMENTS AND ADMINISTRATION

**HB1688**, relative to the regulation of the installation and operation of boiler and pressure vessels.  
**OUGHT TO PASS WITH AMENDMENT.**

Rep. Carol M McGuire for EXECUTIVE DEPARTMENTS AND ADMINISTRATION. This bill was developed by the study committee created by SB98, and addresses the building code obstacles to using biomass boilers built under European codes in commercial or government properties. These boilers are more efficient and have lower emissions than most current biomass boilers, and are currently used in single family homes. The amendment tightens the language to ensure that only the specific code the committee considered is adopted.

**Vote 15-1.**

**Welch, Gail**

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**From:** Carol McGuire [mcguire4house@gmail.com]  
**Sent:** Wednesday, February 17, 2010 8:58 AM  
**To:** Houde-Quimby, Charlotte; Welch, Gail  
**Subject:** HB1688 blurb

Gail, Charlotte hasn't seen this yet - I'll bring her a hard copy to session.

Carol

HB1688, relative to the regulation of the installation and operation of boiler and pressure vessels. OTP/A

This bill was developed by the study committee created by SB98, and addresses the building code obstacles to using biomass boilers built under European codes in commercial or government properties. These boilers are more efficient and have lower emissions than most current biomass boilers, and are currently used in single family homes. The amendment tightens the language to ensure that only the specific code the committee considered is adopted.

This is OK.  
Rep. L. Harding

For:  
Gail Welch