



PELLET FUELS INSTITUTE

PFI Standards Program Update: *PFI Membership Luncheon*

Chris Wiberg, Co-Chair, PFI Standards Committee
HPBExpo 2011
Salt Lake City, Utah

www.pelletheat.org



March 2010 – EPA Presents Implications of NSPS

- Pellet fuel standards will be required
- EPA will put federal rules in place if PFI does not develop an acceptable program
- Must include third party auditing, sampling, testing
- No chemically treated or contaminated materials
- Tailored QA/QC plans – verified by audit
- Deadline - October 2010



Standards Re-Development Key Dates

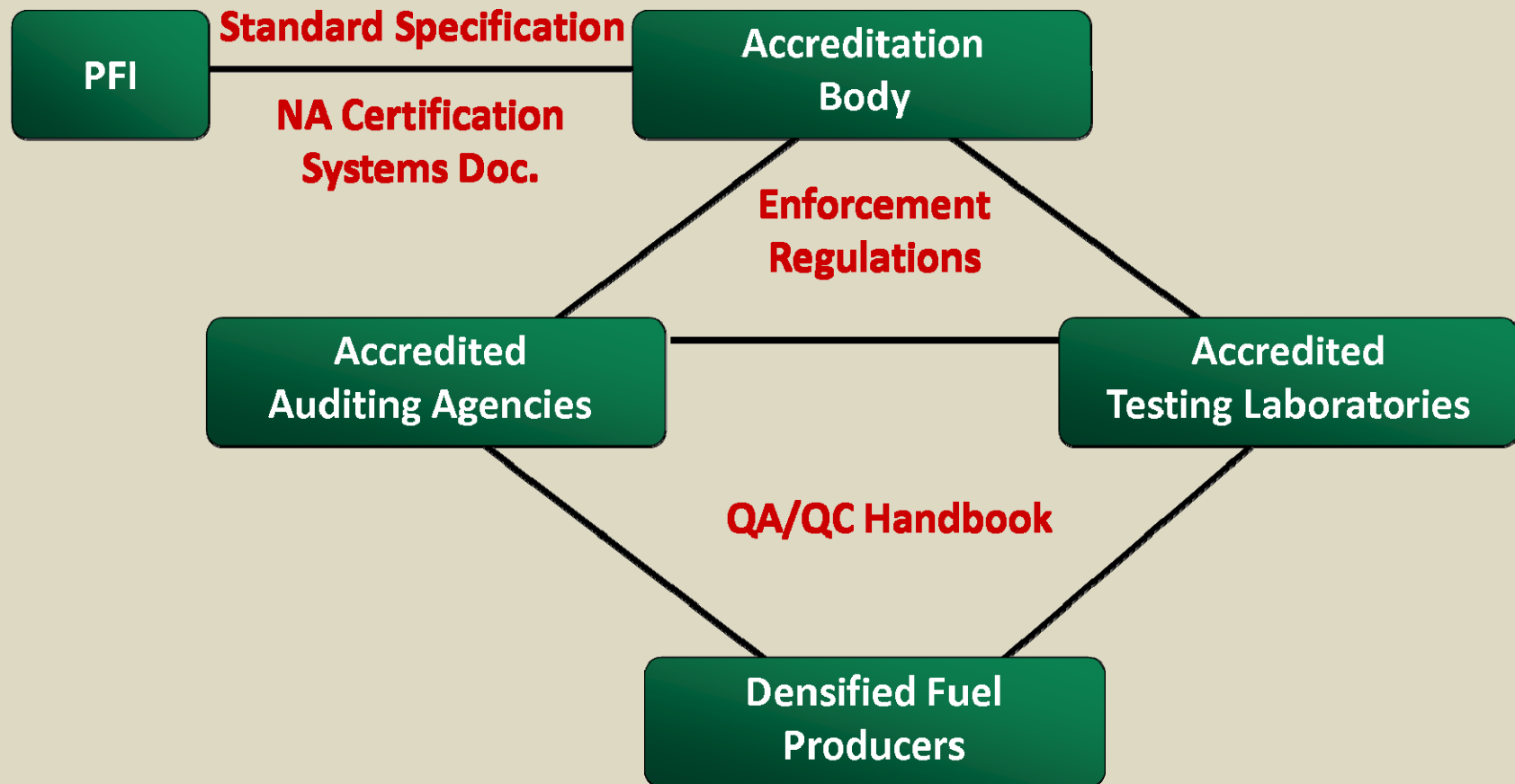
- July 2010 – PFI Standards Committee presents first draft of program; PFI BOD unanimously approves the program in concept
- October 2010 – PFI Standards Committee presents final draft of program documents to PFI BOD; PFI BOD unanimously approves all four program documents



New Structure PFI's Program

Issuer / Maintainer / Promoter

Implementer / Enforcer





Major Changes Since July

- Audit frequency will be monthly with one audit sample collected per 1000 tons of pelletized fuel produced
- Inspection & re-inspection criteria (95% compliant with 10%/2% rule)
- Internal labs are optional
- Program costs approximately \$0.50/ton



Super Premium Is No Longer a Grade

Fuel Property	Residential/Commercial Densified Fuel Standards		
	See Notes 1 & 2		
	PFI Premium	PFI Standard	PFI Utility
Normative Information - Mandatory			
Bulk Density, lb./cubic foot	40.0 - 46.0	38.0 - 46.0	38.0 - 46.0
Diameter, inches	0.230 - 0.285	0.230 - 0.285	0.230 - 0.285
Diameter, mm	5.84 - 7.25	5.84 - 7.25	5.84 - 7.25
Pellet Durability Index	≥ 96.5	≥ 95.0	≥ 95.0
Fines, % (at the mill gate)	≤ 0.50	≤ 1.0	≤ 1.0
Inorganic Ash, %	≤ 1.0	≤ 2.0	≤ 6.0
Length, % greater than 1.50 inches	≤ 1.0	≤ 1.0	≤ 1.0
Moisture, %	≤ 8.0	≤ 10.0	≤ 10.0
Chloride, ppm	≤ 300	≤ 300	≤ 300
Informative Only - Not Mandatory			
Ash Fusion	NA	NA	NA
Heating Value	NA	NA	NA



PFI's Certification Mark

- Higher heating valued stated as-received and must reflect a minimum BTU guarantee – verified by audit
- Manufacturers may provide other guarantees as long as their claims are demonstrated through audit (e.g. Ash Content As-Received: <0.50%)

PFI CERTIFIED FUEL



PFI Densified Fuel Grade: Premium

Grade Requirements:

Reg. #1234

Bulk Density:	40–46 lbs/ft ³
Diameter:	.230–.285 in/5.84–7.25 mm
Durability:	≥96.5
Fines:	≤0.50%
Ash Content (as received):	≤1%
Length:	≤1% >1.5 in.
Moisture:	≤8.0%
Chlorides:	≤300 ppm

Manufacturers Guaranteed Analysis As Audited:

Type of Material:	Softwood fiber
Additives:	2.0% corn oil by weight
Minimum Higher Heating Value (as received):	8,000 BTU
Other Manufacturers Guarantees:	

© For more information, please visit the PFI website at www.pelletheat.org.



Chemically Treated and/or Contaminated Materials

6.7 Raw Material Control

“Chemically treated materials as defined in section 4.5 must not be accepted as raw material for PFI certified densified fuel. Construction waste debris and post consumer recycled wood may only be used if the materials are verified to be clean in accordance with the procedures outlined in Appendix A.”



Appendix A

PFI Residential/Commercial Densified Fuel QA/QC Handbook

Appendix A

Pellet Fuels Institute

Standard Operating Procedure for:

Sorting Construction Waste Debris & Post Consumer Recycled Wood

Content to be Determined:



Next Steps

- PFI is currently in negotiations with the American Lumber Standards Committee (ALSC) to perform the roll of Accreditation Body
- It will still take several months to put the necessary pieces in place
- It is currently anticipated that you should begin to see PFI's Certification Mark appear on bags in the latter part of 2011



PELLET FUELS INSTITUTE

Educating the Industry

Training Opportunity at HPBA Expo

PFI Pellet Fuel Standards:
What Retailers Need to Know

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Pledge Letter



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PFI Standards Program Pledge

My company is committed to participating in the PFI Standards Program. Based on the information we have and PFI's pledge to pursue an aggressive campaign to educate the public and all levels of the industry about the benefit of this program, we expect to begin the fuel certification process as soon as auditors are available in our region.

We support the use of consistent, third party audited standards, and the quality control which these standards represent, as a key component of the growth of the use of pelletized biomass in North America.

I am authorized to express my company's intention to participate in the PFI Standards Program as set forth herein.

Company _____
Name _____
Signed _____
Title _____
Date _____

*A North American trade association promoting energy independence through
the efficient use of clean, renewable, densified biomass fuel.*

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Thank You!

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