

Residential Wood Combustion Workshop

EPA's Past, Present and Future
Wood Smoke Reduction Efforts

U.S. EPA Office of Air Quality Planning and Standards

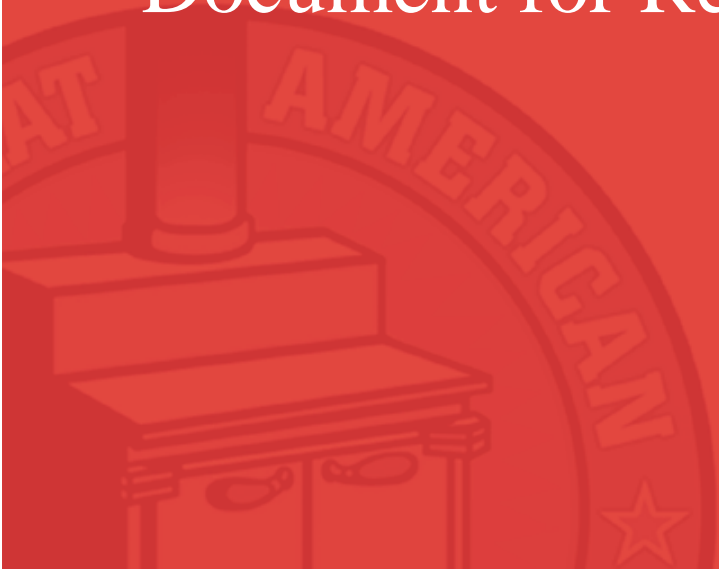
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Past Efforts

- 1988: Issued Wood Heater/Stove New Source Performance Standard (NSPS)
- 1992: Issued Best Available Control Measures Document for Residential Wood Combustion



Recent Past

2004: Created Partnership with HPBA

- Focus on changing out old wood stoves
 - “Great American Wood Stove Changeout”
- Test method for manufactured fireplaces
 - Fireplace voluntary test method
 - HBPA approached EPA about developing the method

2005: States & NESCAUM petitioned EPA to set NSPS for outdoor wood-fired boilers

- June 2006 kicked off meeting for Model Rule & Incentivized Voluntary Program

Present/Future: EPA Fireplace Program

Goals:

- Reduce emissions from all newly manufactured fireplaces
- Develop voluntary partnership program by Fall 2007 for implementation Fall 2008
- Develop SIP guidance by September 2008

Future: EPA Fireplace Program

- Develop and implement Phase 1 Voluntary Program by 2008
 - Develop Partnership Agreement
 - Emissions level, certification, labeling requirements
 - Address workgroup issues: testing, third-party certification, modeling

What is The Great American Wood Stove Changeout?



A voluntary effort to encourage people to replace or “changeout” their inefficient wood stoves with cleaner-burning technologies.



Great American Wood Stove Changeout



- June 2005, Libby, MT Wood Stove Changeout Pilot Initiated
 - Whole town changeout, before and after studies
- September, 2005 SW Pennsylvania Wood Stove Changeout
 - Focused on Low-income households

Libby, Montana Changeout



- Goal: replace all old wood stoves
- 82% of PM2.5 emissions from wood stoves
- \$1M donated by Industry
- \$100K from EPA
- \$1M from Congress
- Monitor air quality and health impacts before and after changeout

Past: What has EPA been doing?



- Wood Stove Changeout “How To” Guide
 - Example brochures, posters, fact sheets, video footage available, case studies & website
- Strong Partnerships (e.g., hearth industry, American Lung Association)
- Options for securing funds, (e.g., grants, industry rebates, SEPs, DOE weatherization)
- Training/Technical assistance/Focus Groups
 - Sponsoring Workshops, State/local benefits modeling
- Wood Stove Changeout Guidance
 - State Implementation Plan (SIP)
 - Supplemental Environmental Projects (SEP)

Past: Growing the Program, EPA Woodstove Changeout Grants



- **FY 2005**
 - Libby, MT - \$100K
 - SW PA Air Quality Partnership - \$100K
- **FY 2006**
 - Stephens and Ferry Co., Washington - \$52K
 - Cached Valley, ID - \$60K
 - Pinehurst, ID - \$60K
 - Nez Perce Tribe - \$105K, (Indoor Air Quality Study)
 - Oakridge, OR - \$125K
 - Vermont - \$100K
 - Klamath Falls, OR - \$100K
 - Spokane, WA - \$100K
- **FY 2007**
 - EPA recommended funding for 3 grants during FY 2007

Past Success: Supplemental Environmental Projects (SEPs)



\$700,000 of Funds Negotiated for Clean Stoves

- 2 in Ohio: Dayton \$75K, Washington Co., \$245K
- 3 in Washington State: 2 in Bellingham, 1 in Spokane \$250K
- 1 in NM: Questa \$100K
- 1 in VA: Christiansburg \$45K

Past Success: Tribal Woodstove Changeouts



- **Swinomish Tribal Indian Community (WA)**
 - Changing out all old stoves

- **Nez Perce Tribe (Idaho)**
 - Before and after indoor air quality study

- **Oneida Indian Nation (Wisconsin)**
 - Used EPA indoor air grant funds to changeout stoves

Progress To Date, 2005-07



- 25 communities have implemented or are implementing woodstove changeouts
- \$6 million invested nationally, EPA has contributed ~\$800K (7 SEPs supporting woodstove changeouts)
- Over 3000 stoves and/or fireplaces changed out
- More than 125 tons of PM reduced/year from changeouts

Wood stove changeouts are happening: 2005-2007



CA - Sacramento
CA - Yolo-Solano
CA - Butte County
CA - Shasta County
CO - Delta County
ID - Pinehurst
ID - Cache Valley
ID - Nez Perce Tribe
MT - Libby
NM - Questa
NV - Washoe Co.
OH - Dayton area
OH - Marietta
OR - Oakridge

PA - Southwest counties
VA - Christiansburg
VT - Rutland
WA - Darrington
WA - Ferry County
WA - Yakima
WA - Bellingham
WA - Spokane
WA - Stevens County
WA - Swinomish Tribe
WI - Oneida Nation
WV - Parkersburg

Residential Wood Smoke: Future: What is next?



- Great American Wood Stove Changeout
 - Take advantage of existing funding mechanisms
 - USDA Rural Development Grants
 - HUD Grants for Tribes
 - Expand public information efforts
 - Continue to provide support to agencies and organizations who wish to begin changeouts
 - Ensure success of existing grants

Summary/Questions



We believe this voluntary effort:

- Is a very effective tool for addressing PM and toxics, indoors and out;
- Tools are available, but financial incentives are a challenge;
- We have willing partners;
- Questions?

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