

Mechanical Insulation is a Heavy Hitter for Industrial Efficiency

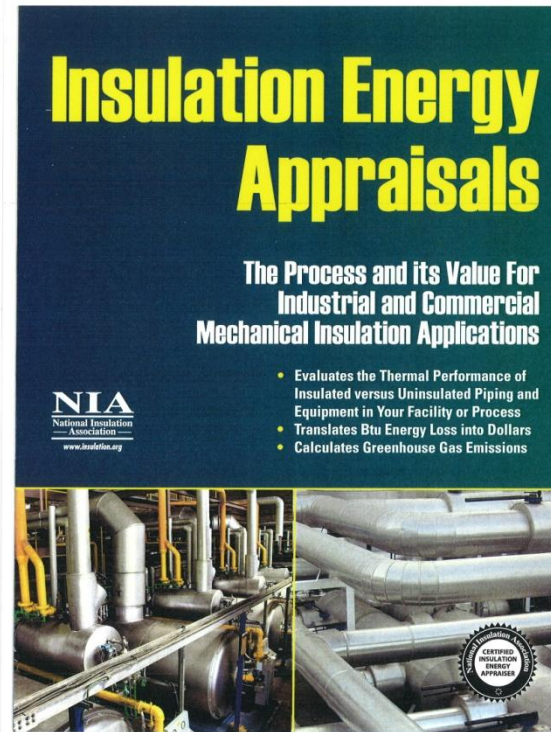


- *Darrell Bunting is the President of Iowa Insulation, a mechanical insulation company he started in 1989. Darrell is a graduate of Iowa State and lives nearby in Nevada. Iowa Insulation is a member of the National Insulation Association and the Associated Builders and Contractors of Iowa. In 2001, Darrell was certified as an Insulation Energy Appraiser. This program is recognized as an Allied Partner of the Department of Energy, who promotes its use.*

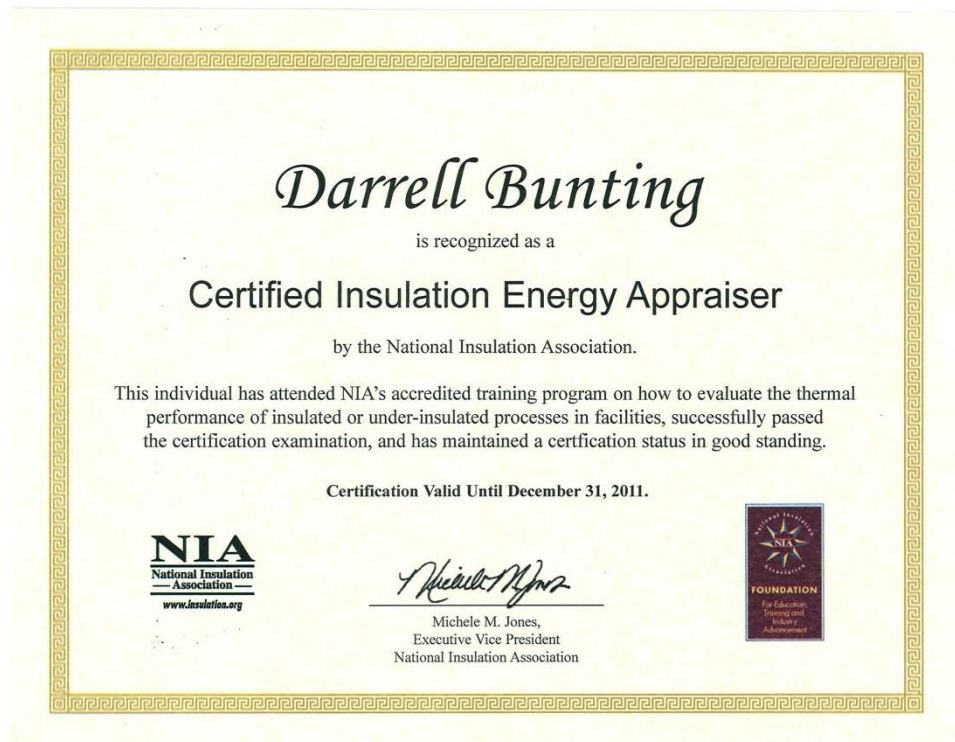
Mechanical Insulation Audits and Appraisals

There is great potential for energy savings by adding more mechanical insulation to your existing mechanical systems

What is a Mechanical Insulation Appraisal and Audit?



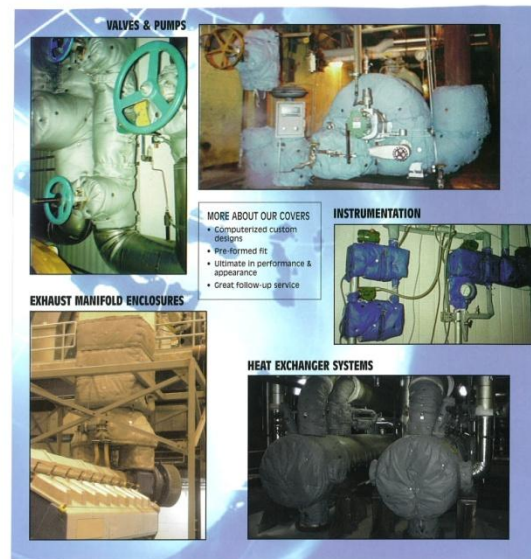
How does the Audit/Appraisal Work?



How Accurate are the Reports?



New Developments in Mechanical Insulation



How Does an Insulation Contractor Help?

- Repairing Existing Insulation Systems to Match
- Advice to determine best product solutions
- Skilled craft personnel / full-time employees

Management will have an accurate financial tool

- 1. You will know the one-time project cost
- 2). You will know the energy savings
- 3). Payback and ROI Calculations

- What is your corporate payback goal?

How are Energy Savings Verified?

NAIMA 3E Plus 4.0

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Item Description =
Calculation Type = Heat Loss Per Hour Report
Geometry Description = Steel Tank Shell - Vertical
System Units = ASTM C585
Bare Surface Emittance = 0.8
Nominal Pipe Size =
Process Temperature = 60 °F
Ave. Ambient Temperature = 29 °F
Ave. Wind Speed = 11 mph
Relative Humidity = N/A
Dew Point = N/A
Condensation Control Thickness = N/A

Outer Jacket Material = Aluminum, new, bright
Outer Surface Emittance = 0.04
Insulation Layer 1 = 650F Min. Fiber Pipe and Tank, Type II, C1393-00a,

Varied

Variable Insulation Thickness	Surface Temp (°F)	Heat Loss (BTU/hr/ft ²)	Efficiency (%)
Bare	60.0	85.99	
0.5	35.1	13.08	84.80
1.0	32.3	7.23	91.59
1.5	31.3	5.00	94.19
2.0	30.8	3.82	95.56
2.5	30.4	3.09	96.41
3.0	30.2	2.59	96.91
3.5	30.0	2.24	97.40
4.0	29.9	1.96	97.72
4.5	29.8	1.75	97.96
5.0	29.7	1.58	98.16
5.5	29.7	1.44	98.33
6.0	29.6	1.32	98.46
6.5	29.6	1.22	98.58
7.0	29.5	1.14	98.68
7.5	29.5	1.06	98.77
8.0	29.5	1.00	98.84
8.5	29.4	0.94	98.91
9.0	29.4	0.89	98.97
9.5	29.4	0.84	99.02
10.0	29.4	0.80	99.07

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> November - April Average is Pt. Budget

What are the next steps?

- A. Schedule a walk-through
- B. Develop a project scope/ computer inputs
- C. Calculate project costs/ energy savings
- D. Pre-approval on Rebate (if applicable)
- E. Review results
- F. Move forward with project

Additional Benefits

- Burn protection for employees
- Lower ambient temperatures
- Improves appearance of mechanical spaces
- Extends equipment life
- Emissions reduced—less energy needed
- Sound attenuation
- Protection from higher future fuel costs

Summary

- There is great potential for energy savings by adding more mechanical insulation
- Energy savings will cash flow the project
- Typical savings are 5%-12% of your annual bill
- Select a certified / experienced appraiser
- Put the Power of Mechanical Insulation to Work for Your Company!



IOWA INSULATION

"Award Winning Mechanical Insulation Systems"

