

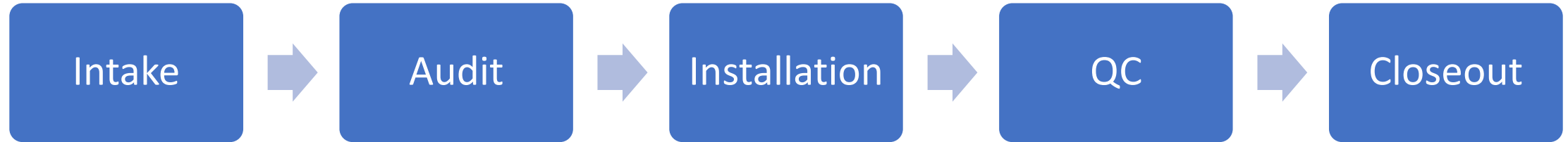
Technical Best Practices

Peer Exchange for Effectiveness and Efficiency

Where can we make progress?

- What do we do well?
- Where can we improve?
- Where are there efficiency bottlenecks?
- Any Inter-agency agreements?

Weatherization Process



Eligibility	Scheduling	Scheduling	scheduling	Fund selection
Energy use review?		Material order		
		Schedule subcontractors		

Priority List

- Showerheads, Aerators
- Lighting Upgrade (CFL or LED)
- Advanced Power Strips
- Heat Pump, Solar Water Heater
- Room AC
- Refrigerators

Potential new technologies, methods

- [Thermostatic Tub Valve](#)
- [GFX Drain](#)
- Shower Timer/Client Education
- Ventilation hack – Have electrician pre-wire pig tails on exhaust fans!
- Clothes lines
- [Heat Pump Dryer](#)
- Non-Energy Impacts per [WPN 22-10](#)
 - [NEI Water Savings Calculator](#)
- Approval needed for non-appendix A approved materials: [WPN 19-4](#)

Values in Green MUST be input for each household being assessed			
# of Occupants:	5		
Water Heater Fuel:	Natural Gas		
Water Source:	Municipal Water		
Values in Orange may be altered if local values are known and differ from typical/average values			
Fuel Costs			
Fuel	Unit Cost	In Units Of	Heat Content (BTU)
Electricity	\$0.132	per KWh	3412
Natural Gas	\$10.84	per MCF	1037000
Propane	\$2.23	per gallon	91452
Oil	\$2.80	per gallon	138500
Measure Life Expectancy (years)	Aerator	Low-Flow Toilet	Low-flow showerhead
	10	20	15
Combined water & wastewater charges (per 1000 gallon)	\$13.11		
Discount Rate:	3.00%		
Water Heater Energy Factor:		Note: Energy Factor (EF) should be input only if the water heater will be replaced with a new unit with a known Energy Factor. Otherwise leave this cell blank.	

Non-Energy Impacts

Water savings could be advantageous!

[WPN 22-10](#)



Non-Energy Impacts

Social Cost of Carbon

- Allows for a fuel price modifier in energy model
 - Electric emissions add 1.99 cents/kilowatt hour (kwh)
 - Natural Gas (NG) emissions add 28.04 cents/therm
 - Liquid Propane (LP) emissions add 30.48 cents/gallon
 - Heating Oil emissions add 54.01 cents/gallon

Client Education

- What are our goals?
- How do we define success?
- How do we ensure/track success?
- What are your 'hacks'?
- What tools/forms are used?
How many?





Thank you!