Sustainability for Wastewater Treatment Technology
NSF 375 Sustainability Assessment for Water contact products

• **New NSF standards development for sustainable manufacture of water contact products.**
  – Wastewater treatment technology, components, filters, piping, etc.

• **Methodology includes inventory of energy, water, waste, and material use as well as efficiency in all these areas.**

• **In process of balloting to Joint Committee**

• **Anticipated publication late 2014 or early 2015.**
Product types covered in NSF 375

- Drinking Water treatment
- Boilers/cooling towers
- Wastewater treatment
- Fittings and components
- Reuse technology
- Fire hydrants
- Storm water piping

Scope of NSF 375
“In order to achieve a sustainable product rating, a product shall provide environmental, economic, and social benefits while protecting public health and welfare, and the environment over its full commercial cycle, from raw materials extraction to final disposition.”
Purpose of NSF 375

• To provide a consistent framework of sustainability attributes for product manufacturers

• To reward companies working toward mitigating their negative impacts through certification

• To promote continuous improvement of companies in their future state of sustainable manufacturing
Sustainable steps

- Inventory
- Efficiency
- Innovation
PROGRAM

DOCUMENTED AND DEMONSTRATED

ANNUAL REVIEW FOR UPDATES

PLAN

IMPLEMENTATION

TRACKING AND SETTING NEW GOALS

SPECIFIC GOALS

MISSION POLICY FOR FOCUS AREA

SPECIFIC TO A FOCUS AREA

COMMUNICATED TO EMPLOYEES

POLICY

MISSION POLICY FOR FOCUS AREA

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NSF 375 – Assessment Categories

Product Design
Product MFG
Durability
End of Life
Corporate Governance
Innovation
Product Life Cycle Considerations

- Human health and safety
- Waste disposal/reuse
- Energy and GHG and air emissions
- Water management
- Material and chemical inputs
- Packaging
- Suppliers

Life cycle
Encourage corporate social responsibility by providing an incentive for companies to engage in practices such as, but not limited to: providing a safe and desirable workplace, engaging with the communities in which their operations are located and, operating in a transparent manner.

- Child and forced labor, foreign corruption, human right protection
- Transparency and accountability
- Health and safety program
- Working hours
- Disciplinary practices
- Employee dispute resolution
- Prevention of discrimination
- Ethics policy
Conformance shall be achieved when the manufacturer meets all prerequisites and requisite criteria as well as 30% of optional criteria. This allows the manufacturer to make the product declaration:
Need and Benefits

• Sustainability compliance
• Transparency of materials in products
• Other countries requiring some form of sustainability
• Loan programs requiring sustainability
• Sustainable infrastructure of utilities