

System Operation and Management Needs and Resources



Goals

- Why implement system management?
- What is Management - definitions?
- How do you set the Standards?
- How often should maintenance happen?

Why is an O&M Service Provider Program Important?

- Expansion of the industry
- Standardization of services
 - Define services to be performed – Operational checklists
 - Liability protection

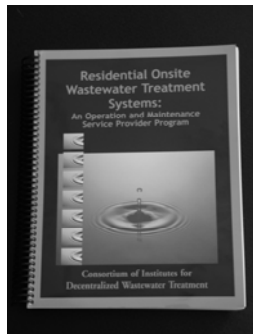


Why is an O&M Service Provider Program Important?

- Communication
 - Service provider
 - Facility owner
 - Permitting authority
- Service Contracts
 - What is included
 - What is extra
 - Define user and service provider responsibilities
- Costs

National practitioner training curriculum for system O&M

- Training Manual
 - Detailed description of technologies
 - Standardized O&M checklists
 - Description of checklist items
 - Math review
 - Tools for O&M
- Bank of examination questions



Definition of Terms

- Management describes all of the steps necessary to conduct operation and maintenance.
- Activities defined as a component of an O&M Program

• Service	• Monitoring
• Acceptable	• Contract
• Unacceptable	• Reporting
• Inspection	• Repair
• Operation	• Replacement
• Maintenance	• Upgrade

Service



- The action of performing activities such as, but not limited to, inspection, assessment, and maintenance of system components.

Acceptable

- Condition where a component is performing its intended purpose. Considered to be in an operable state.



Unacceptable

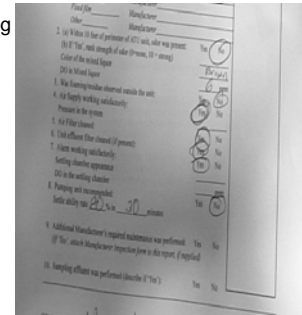
- Condition where components are not operational.
 - Defined by regulations
- Indicates the need for:
 - Maintenance
 - Upgrade
 - Repair
 - Further investigation

Soft failure

Hard failure

Reporting

- Is the action of submitting a detailed report of operation and maintenance activities performed on a system.
- Who gets the reports
 - System owner
 - Regulatory Authority
 - File copies – Service Provider
- Timely Fashion



Service Contract

- Is the official written relationship between the facility owner and service provider.
- Clearly define:
 - What you do
 - When you do it
 - How you do it
 - Cost of your service



System Management

- Management is a term describing all of the steps necessary to conduct operational inspections, maintenance, and monitoring,

Wastewater Treatment System

Role of Management

- Management describes all of the steps necessary to conduct operation and maintenance.
- Provides framework for maintaining the onsite wastewater treatment infrastructure.

What is the O&M Service Provider Program?

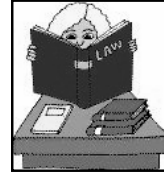
- Establishes operational checklists for evaluating systems
- Provides training for individuals to properly use the operational checklists and evaluate system performance
- Allows onsite wastewater treatment systems to become a permanent solution for our wastewater infrastructure.
- Gives credibility to the onsite industry

Why do this?

- O&M is needed for all systems
- Need O&M Service Providers to perform O&M
- Service Providers must be trained
- We developed this program to train more service providers

What is an O&M Service Provider?

- Professional providing a service to the public
 - Body of knowledge specifically related to performing O&M
 - Standards for admission (Certification Exam)
 - Standards for retention (Continuing Education)
 - Criteria for expulsion (Loss of License)



How do I function as an O&M Specialist?

- Perform operational inspections
- Collect and record information
 - Mechanical components
 - Component operational status
- Perform routine maintenance on systems
- Monitor system performance
- Report system status

Summary

- What is Management - definitions?
- Why is it important?
- How do you set the Standards?
- How often should maintenance happen?

Questions?