



NHDES Wastewater Engineering Operations and Maintenance Manuals Review Checklist for Pump Stations

Directions for the Preparation of Pump Station Operation and Maintenance (O&M) Manuals

Any upgrades or new facility construction to pump stations or treatment works require that an Operation and Maintenance manual be provided as part of the project and approved by the Department of Environmental Services according to the following rules. This checklist is specific to pump stations only.

The New Hampshire Code of Administrative Rules, [Chapter Env-Wq 700](#) Standards of Design and Construction for Sewerage and Wastewater Treatment Facilities, Part Env-Wq 706.07(k), requires that *“Operation and Maintenance Manuals providing information and guidance for day-to-day operation of the WWTP and pump stations shall be submitted within 60 days following completion of construction of the WWTP or sewage pumping station(s).”* Part Env-Wq 706.07(l) lists, at a minimum, what should be included in an O&M manual. These rules apply to all projects, regardless of funding source.

The standard **Engineering Construction Phase Contract** for Professional Services for Treatment Works, Part I.A.2.c, requires the *“Preparation of an Operation and Maintenance Manual for approval by the DIVISION. After DIVISION approval, the ENGINEER agrees to supply four (4) sets of the completed manual to the OWNER, and an electronic version of the document for the DIVISION.”*

Manual Format

The attached Pump Station checklist provides a preferred format in terms of chapter arrangement and structure. Consultants are encouraged to follow this format as much as possible and are directed to contact DES to suggest an alternative format, if needed, to accommodate unique pump station requirements. Consultants should provide draft copies to the owner as well as DES for review.

The following items address the preferred format for both draft manuals and final copies:

- The manual should be assembled using a three ring binder for ease of updating.
- Chapters should be separated with numbered tabs for ease of identification.
- Double sided pages where feasible.
- Drafts for review and approval may be submitted in paper or electronically.
- A copy of the final approved manual shall be submitted electronically. The following conditions can be used as guidelines to determine how extensive the manual must be:
- For **new pump stations**, the manual must address all pertinent items in the checklist.
- For **significant pump station upgrades** involving an increase in capacity, new pumps, control systems, alarms, etc., a new manual is warranted and must address all pertinent items in the checklist.
- For **minor pump station upgrades** such as pump replacement, screening, or grinding improvements, SCADA, VFDs, odor control, emergency power, air handling improvements, etc., the manual may be developed as a stand-alone manual or may be incorporated as an addendum into the existing O&M manual. At a minimum, the manual or addendum must include the project description, design criteria of the upgraded equipment, system operation and control as it relates to the upgraded equipment, drawings or schematics, maintenance, alarm & notification system, and safety as it applies to the upgraded equipment. The manual must describe the upgraded equipment’s relationship to other unit processes currently being used in the pump station. References should be made to the existing O&M manual where appropriate.
- In all cases, an up-to-date Emergency Operating Plans & Procedures section as outlined in Chapter 8 of the checklist must be included in its entirety.
- For any upgrades to a pump station that does not already have an approved O&M manual on file, regardless of significance, a new O&M manual will need to be developed incorporating all of the pertinent elements listed in the checklist.



Yes	No	n/a	Item
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Table of Contents
			Chapter 1: Introduction
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Purpose of Manual
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Use and Updating Information for this Manual
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Project Description
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Type, capacity and unit processes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	New or Upgrade
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If upgrade, describe work done and identify equipment upgraded
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Collection system work, if any
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source of construction funding
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Site location map
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. Service area
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Text description
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residential, industrial and commercial contributions
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Service area map showing force mains, gravity sewers and related pump stations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Design Criteria
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Average daily flow in MGD
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Peak flow in MGD
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pump sizing and capacities, operating heads/inlet and outlet pressures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wet well dimensions and capacities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow storage capabilities, if any in volume (i.e. gallons)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. Chain of Command Structure
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Organizational chart
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. Managerial Responsibilities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Providing and preparing adequate budgeting
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ensuring adequate staffing and preparing job descriptions
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Providing good and safe working conditions
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Implementing an ongoing operator training program
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Providing incentives for employees
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Maintaining efficient facility operation and maintenance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Maintaining adequate records
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Provide proper equipment and tools
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Maintaining good public relations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Planning for future facility financial or Capital Replacement Fund (CRF)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Developing standard operating procedures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other areas of managerial or supervisory responsibilities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. Operator Responsibilities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Using proper operational and maintenance procedures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keeping accurate records
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Managing operating funds properly

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Yes	No	n/a	Item
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keeping supervisors informed
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keeping informed of current operation and maintenance practices
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Observing all safety procedures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ensure cleanliness of the facility
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other areas of operational importance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. Designer & Engineer's Responsibilities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coordination with operating and maintenance personnel
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Training & start-up support
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preparation of O&M manual and record drawings
Chapter 2: System Operation and Control			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Identification, location and detailed description of each unit process and their relationship to each other, including photos of equipment and controls.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Screening, automatic and /or manual, bypass channel
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grinding
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grit removal
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flow measurement and calibration
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pumps
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Motors
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VFD's
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standby power (include a comprehensive list of what equipment is powered or not powered by stand-by power)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HVAC (air changes, controls, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Continuous monitoring for oxygen deficiency and combustible gas (include locations of sensors and readouts)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sump pumps
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SCADA or other instrumentation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Level control system (description, diagram and set points)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alarm conditions and set points for all equipment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hoisting equipment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Odor control
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Detailed operating procedures for each unit process under normal and alternate operation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Start-up and shut-down procedures/draining (include control panel graphics or pictures to illustrate)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bypassing procedures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency operation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Expected unit process performance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manual and automatic operation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Control settings
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Controller locations (remote and local HOA switches, MCC panels, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Operational Problems
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mechanical problems
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Troubleshooting guides
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	High flow procedures

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Yes	No	n/a	Item
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Diagrams and illustrations (no larger than 11 x 17)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Piping, valve and pump layout
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wet well layout, plans and elevations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alternate flow paths
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dry well layout
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Valve identification and normal operational settings
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Digital pictures of MCC panels and actual equipment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Instrumentation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. Lab tests, if applicable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Service area collection system, if new
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Layout
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cleanouts, air relief valves
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operation and maintenance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inspection and cleaning schedule
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cleaning procedure
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Identification of low lying manholes or other areas subject to flooding or overflowing
			Chapter 3 Maintenance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Provide summaries of routine preventative maintenance activities based upon manufacturer's recommendations for each specific major piece of equipment (simply referring to the manufacturer's O&M manual will not suffice)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lubrication schedule and type of lubricant
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Special tools
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Valve and equipment exercising
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Belt and packing replacement
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mechanical seals
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Generator
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exercise under load & provide an exercise schedule
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check transfer switch
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil and coolant specifications
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Generator log with O&M records
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Spare parts list (simply referring to the manufacturer's O&M manual will not suffice)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are spare parts interchangeable with other pump stations?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Preventative maintenance program
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Existing system
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recommended system
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Equipment numbering system
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Maintenance record system
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Computerized maintenance management
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Planning and scheduling
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. General maintenance practices and procedures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mechanical maintenance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electrical maintenance

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Yes	No	n/a	Item
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Inventory system
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. Housekeeping
			Chapter 4 Personnel
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Personnel requirements
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Staffing plan
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Estimate of operational time
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Frequency of visits
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Job titles, job descriptions, qualifications and experience for required positions
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Training & certification
			Chapter 5 Alarm & Notification System
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Summary of all alarms
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Where are alarms displayed?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Transmission of alarm signal to operations personnel
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Periodic testing of alarm conditions and transmission devices
			Chapter 6 Recordkeeping
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Importance of recordkeeping
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Location of records
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Review of recording keeping procedure
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Types of records and example forms
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Daily logs or station checklists
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Maintenance records
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities records i.e. Fuel, gas, chemical, etc. usage
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unusual events or emergency conditions
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Accident reports
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. Reporting procedures
			Chapter 7 Safety
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Management and operator responsibilities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Sewer hazards
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common gases with acceptable and harmful concentrations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Mechanical hazards
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Electrical hazards
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. Chemical hazards and proper handling and storage
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Tripping and falling hazards/improper lifting
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. Personal hygiene
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Infections
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Health hazards
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Immunization programs & recommended shots
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. Explosion and fire hazards
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. Road hazards & traffic control
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. Confined space entry procedures (one must be provided, either existing or an example)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. Lock-out /tag-out procedures and program

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Yes	No	n/a	Item
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12. Proper housekeeping
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13. MSDS sheets for bulk chemicals
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14. List of recommended and existing safety equipment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15. Training
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. Safety reference library
Chapter 8 Emergency Operating Plans and Procedures			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Vulnerability analysis for the following emergency conditions
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power failure
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Equipment failure
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural disasters
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Flooding
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Hurricane or strong winds
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Earthquake
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Freezing conditions
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hydraulic overloading
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Identify low lying manholes or other areas of concern and provide elevations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Provide locations of nearby wells or surface waters
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ruptures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bypassing options
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Upstream/downstream manholes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Emergency pumping connections
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sewer blockages
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Spills of oils, toxics, or hazardous materials into the sewer system or at the pump station
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Explosion
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Failure of emergency warning system
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Labor strikes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Personnel injury
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other emergency situations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Methods to reduce vulnerability
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Emergency response plan and procedure for each condition
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Follow-up investigation and prevention plan
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. EPA/DES Sewer Overflow Reporting Procedure (provided by DES)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Emergency notification system
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. Notification of downstream water users
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. Complete emergency contact telephone list
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	State agencies
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Town or city officials
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	State Police
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chemical spill response units
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hazardous waste/oil spill cleanup firms

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Yes	No	n/a	Item
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Local hospitals
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire department
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency pumping equipment suppliers
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency power equipment suppliers
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utility providers
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	General contractors
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Septage hauling firms
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electricians
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SCADA technicians
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Downstream water users
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. Emergency equipment inventory and location of equipment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. Personnel training & interaction with local emergency response entities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mutual Aid Agreements or WARN System Member
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Authority Structure for Emergency Response
Chapter 9 Utilities			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Suppliers and contact information for all utilities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electrical
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gas, propane, fuel oil
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Telephone
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alarm communications/SCADA
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Provide exact locations of emergency shut-off valves, backflow preventers, etc.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Provide sizes and locations of bulk storage tanks
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Provide a Spill Prevention Containment and Control Plan for bulk storage tanks
Chapter 10 Electrical and Control Systems			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. General description of electrical and control system
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Describe MCC panels including schematics or simple drawings
Chapter 11 SCADA (if applicable)			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Detailed description including SCADA graphics
Appendices			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Schematics and flow diagrams showing all pertinent equipment and major piping (11x17max)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Sample forms including daily operational checklists
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Piping color codes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Equipment suppliers information
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. List of all manufacturers manuals
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Other pertinent information
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. SCADA graphics overview