

DAMAGE ASSESSMENT, REPAIR AND START-UP TEAM - WASTEWATER TREATMENT FACILITIES

DESCRIPTION	This team assesses, repairs, and conducts start-up of all wastewater treatment facilities.		
RESOURCE CATEGORY	Public Works	RESOURCE KIND	Team with personnel and equipment components
OVERALL FUNCTION	<p>This team is responsible for the assessment and repair of all types of wastewater treatment facilities, regardless of size, with various treatment systems, conveyance facilities, and treatment plants.</p> <p>Degree and type of repair and start-up capability are physical/chemical and biological treatment, activated sludge, nutrient removal, tertiary filtration, gaseous chlorination, membranes, ultra violet (UV), dewatering, and bio solids handling.</p> <p>Excluded are pump and lift station repairs, structural and similar scale repairs.</p>	COMPOSITION AND ORDERING SPECIFICATIONS	<p>Requestor to supply licensed operator familiar with the treatment process, plant shut down and startup, and schematics of pipes and valves.</p> <p>Requestor should specify treatment processes used, as well as any materials that should be provided by the responders.</p> <p>Requestor should specify personnel based on incident needs.</p> <p>Types of facilities and processes in need of assessment and repair: _____</p> <p>Materials that should be provided by responders: _____</p> <p>Specific control systems used: Electronic _____ Pneumatic _____ Hydraulic _____</p> <p>Facility capacity, Millions of Gallons Per Day(MGD): _____</p> <p>Ordering Specifications: Security requirements should be determined by the requesting agency based upon actual field conditions and intelligence, and provided to the responding team.</p>

RESOURCE TYPES			TYPE 1	NO TYPE 2	NO TYPE 3	NO TYPE 4
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Personnel	Hours of operation per shift		12 Hours	Not Applicable	Not Applicable	Not Applicable
			NOTES: Not Specified			
Personnel	Duration of self-sustained operation		72 hours	Not Applicable	Not Applicable	Not Applicable
			NOTES: The requestor will provide support to the team such as security, fuel, and power for recharging of phones, computers and other rechargeable devices.			
Equipment	Duration of sustained operation		Up to 14 days	Not Applicable	Not Applicable	Not Applicable
			NOTES: Not Specified			

INTERIM GUIDANCE

Superseded

RESOURCE TYPES			TYPE 1	NO TYPE 2	NO TYPE 3	NO TYPE 4
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Personnel	Positions per team	Team member capabilities for assessments and repairs of processes indicated	Total = 7 1 Mechanic 1 Electrician 2 Licensed operators 1 Instrumentation technician 2 Repair technicians	Not Applicable	Not Applicable	Not Applicable
			NOTES: All team members will have completed the Occupational Safety and Health Administration - Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) required coursework.			
Equipment (Vehicle and Specialized Equipment)	Number and kind of per team		2 Heavy-duty pick-up trucks 1 with equipment boom Other equipment and supplies as needed based on ordering specifications	Not Applicable	Not Applicable	Not Applicable
			NOTES: Examples of tools and equipment include flashlights, insulated rubber gloves, measuring tape, screw drivers, and bolt cutters			
Equipment (Communications)	Quantity and kind based on mission assignments		Cell phones Portable radios Satellite phone	Not Applicable	Not Applicable	Not Applicable
			NOTES: Not Specified			
Supplies (Logistics)	Quantity and kind based on mission assignments		Water and other potable fluids Food Shelter Sanitation	Not Applicable	Not Applicable	Not Applicable
			NOTES: Not Specified			

INTERIM GUIDANCE

Superseded

COMMENTS

1. Basic safety equipment for team members should include hard hats, reflective vests, and other appropriate equipment based on ordering specifications and conditions.

REFERENCES

1. This document is U.S. Government work and is not copyright protected in the United States. This publication was created with individual input and expertise provided by several state and local government entities. While the Federal Emergency Management Agency does not endorse any non-U.S. Government organizations or publications, several documents were referenced in the creation of this document, including, for example, the "American Water Works Association (AWWA), c 2008. Water & Wastewater Mutual Aid and Assistance Resource Typing Manual. Denver, Colorado."

NOTES

Nationally typed resources represent the minimum criteria for the associated component and capability.