

## DAMAGE ASSESSMENT, REPAIR AND START-UP TEAM - WASTEWATER LIFT AND PUMP STATION

<b>DESCRIPTION</b>	This team assesses and repairs all types of wastewater lift and pump stations.		
<b>RESOURCE CATEGORY</b>	Public Works	<b>RESOURCE KIND</b>	Team with personnel and equipment components.
<b>OVERALL FUNCTION</b>	<p>This team is responsible for the assessment and repairs of all types of wastewater lift station and pump facilities, regardless of size, including conveyance facilities, treatment plants, and pump stations.</p> <p>Degree and type of repair and start-up capabilities include screw, submersible, wet well or drywell, and vertical-turbine solids-handling pumps.</p> <p>Excluded are structural and similar scale repairs.</p>	<b>COMPOSITION AND ORDERING SPECIFICATIONS</b>	<p>Requestor should specify types of pump facilities in need of assessment and repair, as well as any materials that should be provided by the responder:</p> <p>Types of pump facilities 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>Maximum pump voltages: 4160 _____ 480 _____</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	TYPE 2	NO TYPE 3	NO TYPE 4
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Personnel	Hours of operation per shift		Same as Type 2	12 hours	Not Applicable	Not Applicable
			<b>NOTES:</b> None			
Personnel	Duration of self-sustained operation		Same as Type 2	72 hours	Not Applicable	Not Applicable
			<b>NOTES:</b> The requestor will provide support to the team, such as security, fuel, power for recharging of phones, computers and other devices with rechargeable batteries.			
Personnel	Positions per team		Same as Type 2	Total = 4 1 Mechanic 1 Electrician 2 Repair technicians (mechanic or electrician serves as team leader)	Not Applicable	Not Applicable
			<b>NOTES:</b> All team members will have completed the Occupational Safety and Health Administration - Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) required coursework.			
Equipment	Duration of sustained operation		Same as Type 2	Up to 14 days	Not Applicable	Not Applicable
			<b>NOTES:</b> None			

### INTERIM GUIDANCE



RESOURCE TYPES			TYPE 1	TYPE 2	NO TYPE 3	NO TYPE 4
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Equipment (Vehicle and Specialized Equipment)	Number and kind per team		Same as Type 2, PLUS 1 thirty ton crane	2 Heavy-duty pick-up trucks 1 with equipment boom Other equipment and supplies as needed based on ordering specifications	Not Applicable	Not Applicable
			NOTES: None			
Equipment (Communications)	Quantity and kind per team based on mission assignments		Same as Type 2	Cell phones Portable radios Satellite phone	Not Applicable	Not Applicable
			NOTES: None			
Supplies (Logistics)	Quantity and kind per team based on mission assignments		Same as Type 2	Water and other potable fluids Food Shelter Sanitation	Not Applicable	Not Applicable
			NOTES: None			
Equipment	Horsepower		400+	Less than 400	Not Applicable	Not Applicable
			NOTES: Not Specified			



## 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.