

SEWER CLOSED CIRCUIT TELEVISION TEAM

DESCRIPTION	The Sewer Closed Circuit Television (CCTV) Team provides nondestructive CCTV services for inspection of sewer systems.
RESOURCE CATEGORY	Public Works
RESOURCE KIND	Team
OVERALL FUNCTION	The Sewer CCTV Team provides sewer mains CCTV inspections for identifying repair and rehabilitation
COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. Discuss logistics for deploying this team, such as security, lodging, transportation, and meals, prior to deployment 2. This team typically works 12 hours per shift, is self-sustainable for at least 72 hours, and is deployable for up to 14 days 3. The requestor provides external support to the team, such as fuel and power for recharging phones, computers, and other rechargeable devices 4. The requestor should provide system maps indicating sewer mains and manholes needing location or other resources for this team to locate the system, and if possible, a representative familiar with the location of affected sewer mains and manholes to accompany this team 5. The requestor should provide this team with Global Positioning System (GPS) coordinate information when possible 6. CCTV equipment for this team may vary based on environment

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

COMPONENT	SINGLE TYPE	NOTES
EQUIPMENT PER TEAM MEMBER COMMUNICATIONS	<ol style="list-style-type: none"> 1. Cell phone 2. Portable two-way radio 	Consider alternate forms of communication, such as satellite phones, based on the mission assignment and team needs.
EQUIPMENT PER TEAM MEMBER PERSONAL PROTECTIVE EQUIPMENT (PPE)	PPE is mission-specific and may include: <ol style="list-style-type: none"> 1. Hard hat 2. Reflective vests 3. Gloves 4. Respiratory devices 5. Protective clothing 6. Protective footwear 7. Protective shields 8. Flashlight 	The following regulation addresses PPE: OSHA 29 Code of Federal Regulations CFR Part 1910.132: Personal Protective Equipment.
EQUIPMENT PER TEAM SEWER CCTV	Necessary CCTV equipment, including: <ol style="list-style-type: none"> 1. CCTV equipment such as a push rod or robotic crawler 2. Minimum 400 feet of cable 3. System maps 4. Hand tools as necessary for the task and location 5. Gas detection device 6. Traffic management cones or other traffic control devices 	<ol style="list-style-type: none"> 1. Hand tools may include tape measure, screwdrivers, bolt cutters or other cutting tools, assorted wrenches, shovel, crowbar or lift tool, chainsaw, and garden trowel. 2. The following regulation addresses gas detection devices: Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.146: Permit-Required Confined Spaces.
EQUIPMENT PER TEAM VEHICLE	1 - Sewer CCTV Truck	Not Specified
PERSONNEL PER TEAM MANAGEMENT AND OVERSIGHT	1 - Sewer CCTV Lead Technician	The Sewer CCTV Lead Technician is not a National Incident Management System (NIMS) typed position.

COMPONENT	SINGLE TYPE	NOTES
PERSONNEL PER TEAM MINIMUM	2	Not Specified
PERSONNEL PER TEAM OPERATIONS AND SUPPORT	1 - Sewer CCTV Technician	The Sewer CCTV Technician is not a NIMS typed position.

Superseded

NOTES

1. Nationally typed resources represent the minimum criteria for the associated component and capability.
2. This document is US 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-US 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.”

REFERENCES

1. Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.132: Personal Protective Equipment, latest edition adopted
2. OSHA 29 CFR Part 1910.146: Permit-Required Confined Spaces, latest edition adopted

Superseded