TECHNICAL SPECIALIST - SMALL UNMANNED AIRCRAFT SYSTEM

RESOURCE CATEGORY	Incident Management
RESOURCE KIND	Personnel
OVERALL FUNCTION	The Technical Specialist – small Unmanned Aircraft System (sUAS) provides technical support to the sUAS Team, including managing the data recording payload and software, managing communications systems and frequencies, and maintaining documentation in the appropriate chain of custody.
COMPOSITION AND ORDERING SPECIFICATIONS	1. This position can be ordered as a single resource or in conjunction with a NIMS typed team (Small Unmanned Aircraft System Team). 2. Discuss logistics for deploying this position, such as working conditions, length of deployment, security, lodging, transportation, and meals, prior to deployment. 3. This position typically works 12 hours per shift, is self-sustainable for 72 hours, and is deployable for up to 14 days.

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
DESCRIPTION	The Technical Specialist: 1. Ensures that data recording and streaming payload is operational preflight, during flight, and post-flight to achieve the mission objectives 2. Communicates safety, hazards, needs, and concerns relating to data gathering and streaming payload to the flight observer 3. Maintains the flow of streamed data to the receiver while the aircraft is in flight 4. Ensures that backup recording payload are operational before launch 5. Checks that data is recorded, creates a backup copy, and forwards the original to designated operations, public information, and planning authorities 6. Documents the chain of custody for information gathered from the aircraft	Not Specified
EDUCATION	Not Specified	Not Specified
TRAINING	Completion of the following: 1. IS-100: Introduction to the Incident Command System, ICS-100 2. IS-200: Basic Incident Command System for Initial Response 3. IS-700: An Introduction to the National Incident Management System 4. IS-800: National Response Framework, An Introduction 5. Hazardous materials awareness training or equivalent, such as: a. Training in accordance with the Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Materials Awareness, OR b. IS-5.A: An Introduction to Hazardous Materials 6. Overview of Crew Resource Management (CRM)	Not Specified

COMPONENT	SINGLE TYPE	NOTES
EXPERIENCE	Knowledge: Competency with remote sensing technologies such as photogrammetry, live video, lidar, and thermal imaging Experience: Provides the Authority Having Jurisdiction (AHJ) with documentation of successful participation in a drill, functional or full-scale exercise, or incident within the past two years	The AHJ may accept documentation of equivalent military experience.
PHYSICAL/MEDICAL FITNESS	Performs duties under moderate circumstances characterized by working consecutive 12-hour days under physical and emotional stress for sustained periods of time	Not Specified
CURRENCY	Functions in this position during an operational incident, exercise, drill, or simulation at least once every two years	Not Specified
PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS	Not Specified	Not Specified

NOTES

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

REFERENCES

1. FEMA, NIMS 508: Unmanned Aircraft System Team
2. FEMA, NIMS 509: Remote Pilot in Command
3. FEMA, NIMS Guideline for the National Qualification System, November 2017
4. Federal Aviation Administration (FAA) Joint Order (JO) 7200.23: Air Traffic Organization Policy, October 2016
5. Title 14 Code of Federal Regulations (CFR) Part 107: Small Unmanned Aircraft Systems, latest edition adopted
6. Occupational Safety and Health Administration (OSHA) 29 CFR Part 1910.120: Hazardous Materials Awareness, latest edition adopted