



* Series 300 Administration	Effective Date 10/13/2022	Review Date Annually	Directive Number 307.8
Chapter 307 – Information System			
Reviewing Office Crime Intelligence Unit			<input type="checkbox"/> New Directive <input checked="" type="checkbox"/> Revised Revisions are in <i>italics</i>
References:			

GUNSHOT DETECTION SYSTEM

307.8 - 1 PURPOSE

The purpose of this policy is to detail how members shall properly utilize the gunshot detection system in order to enhance the Department’s ability to respond to and investigate violent crimes and incidents involving gunfire, while safeguarding all civil liberties.

307.8 - 2 Definitions

307.8 - 2.1 Coverage Area

A defined perimeter where the gunshot detection system sensors can reliably triangulate incidents of gunfire.

307.8 - 2.2 Curtilage

The land immediately surrounding a house or dwelling including any closely associated buildings or structures.

307.8 - 2.3 Detailed Forensic Report

A report produced by the gunshot detection system at the request of the Crime Intelligence Unit that includes detailed information of the gunshot detection incident, including the number of rounds fired, the number of shooters involved, and the direction and speed of a shooter-in-motion.

307.8 - 2.4 Enhanced Incident Report

Investigative reports that may be produced through Insight or by contacting support@Shotspotter.com [vs1] within 72 hours of an incident that includes a map with the location of the alert, location information, and audio from the sensors that created the alert.

307.8 - 2.5 Gunshot Detection System

Technology that detects outdoor audible gunfire within the coverage area using acoustic sensors capable of pinpointing the accurate location of a gunfire event.

307.8 - 2.6 Incident Review Center (IRC)

When a sound triggers the sensor, audio data is sent to the Incident Review Center for verification. Once qualified as a firearms discharge, the event is pushed to the

307.8 Gunshot Detection System

~~ShotSpotter-SoundThinking~~ Respond Application (on browser and mobile devices) and the ~~ShotSpotter-SoundThinking~~ Dispatch Application for member dispatch and investigation.

307.8 - 2.7 *Insight*

This application can be used to generate custom reports and support gunfire investigations. Data and information for all activations of the ~~ShotSpotter-SoundThinking~~ system are archived for up to seven (7) years.

307.8 - 2.8 Respond to the Dot

~~ShotSpotter-SoundThinking~~ directs members to respond to incidents of gunfire, which are represented on the ~~ShotSpotter-SoundThinking~~ Respond Application as a dot. The dot is a precise location, with corresponding latitude and longitude coordinates, and will include an 82-foot radius for locating victims, evidence, witnesses, and crime scene management.

307.8 - 2.9 ~~ShotSpotter-SoundThinking~~ Dispatch Application

The ~~ShotSpotter-SoundThinking~~ Dispatch Application is available on web browsers via URL. This tool provides real-time gunshot alerts to the Communications Operations and the Crime Intelligence Unit. The application allows members to acknowledge and close alerts, assign CAD numbers and add details to incidents.

307.8 - 2.10 ~~ShotSpotter-SoundThinking~~ Flex Alerts Console

A mobile password protected console available to designated members that provides a visual map representation and address of a gunfire alert.

307.8 - 2.11 ~~ShotSpotter-SoundThinking~~ Gunshot Detection Service

~~Technology that detects outdoor audible gunfire within the Coverage Area using acoustic sensors capable of pinpointing a gunfire event.~~^[vs2] The current Gunshot Detection System procured by The Detroit Police Department.

307.8 - 2.12 ShotSpotter Respond Application

A phone application and web-based tool accessible via <https://respond.shotspotter.com>^[vs3]. This tool provides real-time gunshot alerts to patrol and investigative personnel in a mobile device format.

307.8 - 3 Civil Liberty Protections

307.8 - 3.1 Strict Limitations on Access to Audio from Acoustic Sensors

1. Gunshot Detection Technology must be used in a manner consistent with the legal interpretation and court rulings of U.S. Constitution, state laws, and local ordinances applicable to the use of the technology.^[vs4]
- ~~2.~~ Members shall only have access to recorded audio from confirmed gunshot incidents.
- ~~3.~~ Members shall not be able to monitor live audio from acoustic sensors.
4. The recorded audio shall only be reviewable when pertinent to an active investigation involving a firearm discharge.
5. Members shall be strictly prohibited from requesting audio in situations not involving a shotsfired investigation without having first obtained a valid search warrant.

6. Pursuant the Biased-Based Policing Directive, members are strictly prohibited from using Gunshot Detection technology as an unlawful pretext for stopping individuals based on their personal characteristics or mere presence in the area.^{[vs5][vs6]}
- 3.7. It is prohibited for Gunshot Detection Systems to be used to covertly listen to conversations, street-noise, or any noise that is not gunfire. DPD will not procure Gunshot Detection Systems that use biometric measurement technologies.
- 4.8. Any violations of this section of the ^[vs7]directive shall be deemed egregious conduct and members shall be subject to discipline up to and including termination.

307.8 - 3.2 Private Residence and Buildings

A ~~ShotSpotter~~ Gunshot Detection alert, by itself, does not give responding Department member(s) the legal authority to enter private residence, private buildings, and the constitutional curtilage

307.8 Gunshot Detection System

surrounding those properties.

307.8 - 3.3 ~~ShotSpotter~~ Gunshot Detection as Investigative Lead

Members shall not arrest or stop individuals or groups of people solely on a ~~ShotSpotter~~ Gunshot Detection notification. ~~As~~ it is a lead only. ~~Any~~ possible connection or involvement of any subject to the ~~ShotSpotter~~ Gunshot Detection notification must be determined through further investigation and investigative resources. An arrest must be based upon the totality of circumstances gathered from a thorough investigation.

307.8 - 4 Procedure

1. When a gunshot is fired within the coverage area, multiple mounted sensors located in that area will detect the shot's precise location and number of rounds that have been fired. This data will be sent to ~~ShotSpotter~~ Gunshot Detection Technology's Incident Review Center for authentication.
2. Once the activation has been confirmed as gunfire, this information shall be sent simultaneously to the ~~ShotSpotter~~ Gunshot Detection Unit logged into the ~~ShotSpotter~~ Gunshot Detection Respond Application and the Precinct Intelligence Unit.
3. The Precinct Intelligence Unit shall notify the ~~ShotSpotter~~ Gunshot Detection Unit and Dispatch of the gunshot and all pertinent details. Communications Operations shall create the ticket and update it accordingly. The run shall be dispatched as follows:
 - a. Should the ~~ShotSpotter~~ Gunshot Detection Unit be available, they shall respond to the incident
 - b. Should the ~~ShotSpotter~~ Gunshot Detection Unit be unavailable due to a lower priority incident (e.g. recanvassing from a previous day's notification), they shall respond to the gunshot incident;
 - c. Should the ~~ShotSpotter~~ Gunshot Detection Unit be unavailable due to another gunshot incident and the incident be a confirmed multiple shots incident, the Precinct Intelligence Unit shall notify Dispatch and Communications Operation shall dispatch the run as a Priority 1 run; or
 - d. For any other incident, the ~~ShotSpotter~~ Gunshot Detection Unit shall canvas the area at the next available time.
4. The responding unit shall canvas within 82 feet of the precise location identified via the ~~Gunshot Detection~~ ShotSpotter system for victims, evidence, and witnesses; and only enter private residences, private buildings, and the constitutional curtilage surrounding those properties under the conditions outlined in the Search and Seizure and or the Search Warrants and Execution Directives. ~~Any casings or firearms recovered on the scene of a ShotSpotter incident shall be considered evidentiary.~~^[vs8]^[vs9]
5. The responding unit shall notify Dispatch for additional resources and document all relevant information within their reports.
6. The responding unit shall notify Dispatch that they have cleared the run.

307.8 - 5 Responsibilities

307.8 - 5.1 Crime Intelligence Unit

The Crime Intelligence Unit (*CIU*) shall coordinate the response within each Precinct Intelligence Unit and be responsible for the following:

1. Acknowledge and review information from ~~ShotSpotter~~ Gunshot Detection Technology in a timely manner;

307.8 Gunshot Detection System

2. Notify dispatchers and the ~~ShotSpotter~~ Gunshot Detection Unit of incoming ~~ShotSpotter~~ Gunshot Detection System information including the specific detailed location, time of the incident, and the severity of the incident (e.g. amount of shots being fired; at what speed and direction a possible offender may be moving);
3. Dispatch the ~~ShotSpotter~~ Gunshot Detection Unit when available. When the Gunshot Detection ~~ShotSpotter~~ Unit is unavailable and the incident is a confirmed multiple gunshot incident, provide all relevant information for Communications Operations to dispatch as a Priority 1 run;
4. Save all ~~ShotSpotter~~ Gunshot Detection System information for firearm discharge incidents involving Department members and immediately notify the commanding officer of Crime Intelligence Unit;
5. Notify ~~ShotSpotter~~ Gunshot Detection Technology of any deficiencies, including but not limited to:
 - a. That the location of an incident was inaccurate or
 - b. A confirmed firearm discharge within the coverage area was never reported by the gunshot detection system;
6. Create statistical analyses from information accumulated by the gunshot detection system to identify:
 - a. Potential gun violence related trends,
 - b. Crime patterns, and
 - c. Any specific locations which have a high amount of gunfire;
7. Disseminate relevant information to Precinct Commanders and Deputy Chiefs in order to implement appropriate strategic responses; and
8. Ensure that all members assigned to a Precinct Intelligence Unit whose respective precinct falls partially or completely within a Coverage Area is trained on the proper use of ~~ShotSpotter~~ the Gunshot Detection Technology and its relevant applications.

307.8 - 5.2 Communications Operations

Communications Operations shall be responsible for the following:

- a. Create a CAD ticket and update the ticket as necessary;
- b. Provide information of additional calls of the incident by citizens that are relevant;
- c. Dispatch confirmed multiple shot incidents as a Priority 1 run when Precinct Intelligence Unit identifies the ~~ShotSpotter~~ Gunshot Detection Unit as unavailable; and
- d. Dispatch appropriate additional resources (e.g. EMS, back up, etc.) as needed.

307.8 - 5.3 Precinct within a Coverage Area

Any Commanding officer whose precinct falls partially or fully within a Coverage Area shall designate a ~~ShotSpotter~~ Gunshot Detection Unit within their Daily Detail. The Gunshot Detection ~~ShotSpotter~~ Unit must have received training on the Gunshot Detection

DETROIT POLICE DEPARTMENT

MANUAL

TechnologyShotSpotter. This unit shall be responsible for the below duties:

- a. Log into the ShotSpotter-SoundThinking Respond Application at the beginning of the shift;
- b. Notify Precinct Intelligence Unit and Communications Operation when responding to the scene of a ShotSpotter-Gunshot Detection related incident;

307.8 Gunshot Detection System

- c. Take a safe and strategic approach while responding to the incident, being aware that an offender or multiple offenders may be on the scene;
- d. Immediately request any necessary resources to the scene (e.g. EMS, additional units) as relevant;
- e. Follow relevant procedures found in 203.1 Crime Scene Investigation and all other relevant policies;
- f. Canvas within 82 feet of the precise location identified via the ShotSpotter-Gunshot Detection System for victims, evidence, and witnesses. Any casings or firearms recovered on the scene of a ShotSpotter-Gunshot Detection incident shall be considered evidentiary;
- g. Notify the Crime Intelligence Unit should it become clear that the gunshot notification was false (e.g. individual and witnesses are shooting fireworks);
- h. Should the members write an Incident Report, members shall designate in their case report that the incident is ShotSpotter-Gunshot Detection-related; and
- i. Recanvass any confirmed ShotSpotter-Gunshot Detection incident the following day for additional evidence collection to process through NIBIN.

307.8 - 5.4 Detective Bureau

After a shooting incident is confirmed, the case shall be routed to the appropriate investigative unit (e.g. Homicide, Precinct Detective Unit, etc). The members assigned to the Detective Bureau shall be responsible for the following:

- a. Access the Gunshot Detection ShotSpotter System via the SoundThinking ShotSpotter Technology Insight.
- b. Replay any audio recording associated with a shooting incident to recreate the crime scene, including the timeline of rounds discharged, and determine the likely number of offenders;
- c. Compile the following information as necessary for investigation and prosecution purposes
 - Incident data,
 - Detailed forensic reports, and
 - Evaluate and present incident data in preparation for prosecution.

307.8 - 5.5 ShotSpotter-Gunshot Detection Technology Training

CIU shall be responsible for coordinating training on ShotSpotter-Gunshot Detection application use and on the ShotSpotter-Gunshot Detection response process, *as well as ensuring* that the following members are trained in Gunshot Detection ShotSpotter:

- a. Any sworn member assigned to a precinct where any part of a Coverage Area falls within their precinct;
- b. Detective Bureau personnel assigned to cases that could involve a firearm discharge incident;
- c. Any sworn member who indicate interest in receiving the ShotSpotter-Gunshot Detection training;

- d. Precinct Intelligence Unit members; and
- e. Communications Operations members.

In addition, all DPD Members trained on any Gunshot Detection System must complete the following:

- a. Training on data security policies and procedures;
- b. Sign and acknowledge receipt of all authorized and prohibited technology use and training;
- c. Sign and acknowledge that any violation of this directive of policy shall be deemed egregious conduct and members shall be subject to discipline up to and including termination.

307.8 Gunshot Detection System**307.8 - 6 Quarterly Oversight Reporting to the Board of the Police Commissioners**

The Crime Intelligence Unit shall submit a quarterly report [VS10][VS11][VS12] to the Board of Police Commissioners listing the gunshot detection incidents for the quarter with the following data elements summarizing key statistics including the following:

- Gunshot detection Incident unique identifier
- Date/Time of gunshot detection incident
- Number of shots fired for that incident
- Number of shooters
- Direction and speed of shooters in motion
- Confirmed or False
- For confirmed incidents, response time to scene
- Gun casings found?
- Gun(s) confiscated?
- Led to arrest(s) (in conjunction with other investigative elements)?

DPD will also establish an internal audit mechanism to mitigate risk, harm, or bias with the use of the technology. The audits shall be conducted on a quarterly basis; reported to the Board; and reviewed and evaluated for best practices and lessons learned.

An efficacy audit of Gunshot Detection System will be conducted annually by the Board of Police Commissioners. In addition to the quarterly report data above, DPD will provide any additional information necessary for BOPC to complete the audit, including but not limited to the following:

- Total number of sensors throughout the City
- Cost of each sensor, the service, and any other associated costs
 - a. ~~Number of confirmed gunshot detection incidents;~~
 - b. ~~Number of false gunshot detection incidents;~~
 - c. ~~Average response time for gunshot detection notifications; and~~
 - d. ~~Number of confiscated guns, gun casings, and arrests leading from a gunshot detection notification.~~

Related Policies and Procedures:

- Department Manual Directive 101.10, Supervision
- Department Manual Directive 101.11, Record Retention Schedule

DETROIT POLICE DEPARTMENT

MANUAL

- Department Manual Directive 101.12, Data Sharing, Retention, and Dissemination
- Department Manual Directive 201.1, Patrol
- Department Manual Directive 203.1, Crime Scene Investigations
- Department Manual Directive 203.2, Collection and Preservation of Evidence
- Department Manual Directive 203.14, Real Time Crime Center