

## Exhibit 1.

**Emergency Response - Event Chronology (“Timeline”) of the Event – August 10-11, 2016**<sup>1</sup>Abbreviations / acronym nomenclature used in this tabulation

~	approximate, or approximately
00:00:00	hours:minutes:seconds (time references are denoted in military time, EDT <sup>2</sup> )
00:00	hours:minutes
BC	Battalion Chief
CAD	computer aided dispatch [event report documentation]
comm	communications (principally service radio transmissions)
ECC	Emergency Communications Center
EMS	Emergency Medical Service
FD	fire department (generic)
MAB	mobile ambulance bus
MC	Montgomery County
MCFRS	Montgomery County Fire Rescue Service; response activity data as sourced to the MCFRS Party to the Investigation representative, and the noted MCFRS supporting CAD documentation <sup>3</sup>
MCPD	Montgomery County Police Department; response activity data as sourced to the MCPD Party to the Investigation representative, and supporting documentation of MCPD <sup>4</sup>
OD	Operations Dispatch (of WG)
PD	police department (generic)
PG	Prince Georges County
RID	Rapid Intervention Dispatch (of the MCFRS)
WG	Washington Gas; response activity data as sourced to the WG Party to the Investigation representative, and supporting documentation <sup>5</sup> , with certain activity

<sup>1</sup> Data of this document, as compiled by the SF Group Chairperson, was sourced (to the extent possible) from Party to the Investigation data, and other sources as noted, and also as supported and/or corroborated by review of available telephone and/or service radio [dispatch] recordings as supplied by the various noted organizations, and interviews by NTSB. Timeline may not cite all of the ensuing activities / operations of the emergency response to the event (i.e. peripherally significant activities are omitted). Communications cited are generally by telephone and/or service radio of the identified agency or organization, unless noted otherwise. The timestamp data of the responding emergency services agencies (i.e., MCFRS / MCPD), and the pipeline owner / operator (WG), were verified, and documented, by the investigation to be accurate relative to an official, US Government-sourced, recognized time standard (e.g., <http://www.time.gov/>). Names of individuals, and select other personally identifiable information, are omitted due to considerations of privacy.

<sup>2</sup> Eastern Daylight Time

<sup>3</sup> Source: MCFRS ECC CAD reports for Event # F160099450, # F160099456, and # F160099470, and associated agency-sourced documentation.

<sup>4</sup> Source: ref case # 16040680 8-10-16 2935, and associated agency-sourced documentation.

<sup>5</sup> Source: WG CAD report data (of the incident), ref Work Request No. 3029679, 3029680, and associated WG company-sourced documentation.

data of the WG Service Technician (who responded to the accident site) also sourced to a debriefing interview conducted (in December 2016) by the SF Technical Working Group (see Interview Transcript, to be available in the NTSB public docket)

### Timeline of the Event

#### Time      Activity Summary

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#### August 10

- ~23:50:57 An explosion occurred in a multiple family, residential structure, containing 14 apartments, located at 8701 Arliss Street, in the unincorporated community of Silver Spring, in Montgomery County (MC), Maryland. A major fire ensued, which spread through much of the structure, and resulted in the collapse of the northern end of the structure. A similarly constructed, multiple family, residential structure, located at 8703 Arliss Street, which partially shared a common wall with the 8701 Arliss Street structure, also sustained substantial explosion / fire damage.<sup>6</sup>
- ~23:52 A “boom” was heard by two MC Police Department (PD) Officers who were located near the accident site (one of whom was off-duty working private security in the area). The two MCPD Officers responded to the site, to observe a building collapsed and a fully involved structure fire; one of the Officers placed a radio call to report the event to the MCPD Dispatch (see subsequent 23:52:43 timestamp), where the two Officers then initiated an evacuation of the subject fire-involved structures (to the extent possible).
- 23:52:09 A 9-1-1 call was received by the MC 9-1-1 ECC, from a civilian who was located near the scene, reporting the event. This 9-1-1 call was followed by several additional 9-1-1 calls reporting the event.
- 23:52:43 An MCPD Officer, located near 8701 Arliss Street, made a radio call to the MCPD Dispatch, providing notification of a building collapse and fire at their location.
- 23:54:34 Responsive the [described] radio-call by the MCPD Officer, and the 9-1-1 call (from the civilian at the scene), a 1<sup>st</sup> Alarm for a response by the MCFRS was issued (for this event), in the report of a building/structure fire [in a] high-rise [structure] located at 8644 Piney Branch Road (the address of which was later amended / corrected), resulting in the “full assignment” dispatch of multiple fire department (FD) apparatus and personnel to the scene. Additional alarms were further issued (as described, below), and additional FD apparatus and personnel were dispatched to the scene (as described).
- ~23:54 An MCPD Officer arrived at 8703 Arliss Street; he entered that structure, along with another MCPD Officer, and pulled multiple fire alarms in that structure. The structure at 8701 Arliss Street was observed by the MCPD Officers to be engulfed in flames.

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<sup>6</sup> Timestamp source: data of images recovered (by ATF) from a security camera of a retail store located near the accident site, as suggested by a distinctive “flash” image observed in the video images (see SF Factual report, § 2.4).

- 23:54:34 The first responding ambulance unit (A712), after clearing from a previously dispatched nearby response call, and upon hearing the radio call for the MCFRS to respond resources to the scene, traveled the short distance to, and arrived at the scene.
- ~23:55 Several other MCPD Officers arrived at the 8701 and 8703 Arliss Street site; self-evacuating residents, along with other MCPD Officers assisting in the evacuation of residents are observed, with a blueish/green flame observed coming from the ground and a high-pitched hissing sound is heard coming from the structure at 8701 Arliss Street. The arriving PD officers execute multiple evacuations and rescues.
- 23:56:18 A Rapid Intervention Dispatch (RID) is sounded by MCFRS ECC, consisting of the dispatch of a Truck, a Rescue Squad, and a Medic Unit [M701].
- 23:58 [Radio call indicating] on-scene arrival of the first MCFRS fire / rescue apparatus and a Battalion Chief (PE716 and BC701, respectively). Fire suppression, and an evacuation of the subject fire-involved structure, and the adjacent structure, was immediately initiated.
- 23:58 [Radio call indicating] the arriving Battalion Chief [BC701] initiated a “Level 2” command at the scene (which formally established the Incident Command process), in which the BC was the Incident Commander, with the incident command post [located in the BC vehicle] established in front of the 8701 Arliss Street structure.
- 23:58:12 On-scene arrival of the 2<sup>nd</sup> ambulance unit (A716), which was followed by additionally responding EMS units.
- 23:58:35 A “Task Force Alarm” is sounded, comprised of a paramedic engine, air [SCBA] unit (AR716), “canteen” (705), engine 754B [a US Government unit; Walter Reed Medical Center, Bethesda, MD], aerial tower (AT 718).

### August 11

- 00:00:51 A 2<sup>nd</sup> Alarm was sounded, with additional apparatus / personnel dispatched to the scene.
- 00:01:24 M701 [a medic unit, as an element of the RID] arrived on-scene.
- 00:02:57 A 3<sup>rd</sup> Alarm was sounded, with additional apparatus / personnel dispatched to the scene.
- 00:04:00 Unit RS742 [rescue squad] arrived at the scene, which was immediately followed by additionally arriving FD apparatus / personnel. Rescue efforts and fire suppression immediately ensue by the arriving FD resources. As noted in MCFRS Event History documentation, arriving FD resources observed a fully involved, working structure fire, involving 2 buildings, which [appeared to be] a “gas fed fire”, and that a collapse of one of the burning structures had occurred, also involving entrapments.
- 00:07:55 WG-OD (desk) received a notification [call] and request from Montgomery County 911 ECC to respond to the accident scene, to which WG further responded resources to the scene (as further described).

- 00:08:31 MAB 726 (mobile ambulance bus) was dispatched to the scene.
- 00:09:11 An EMS duty-officer (EMS701) self-dispatched; reported [to Dispatch] was enroute to the scene.
- 00:10:00 Responsive to the notification from Montgomery County 911 ECC, a WG CAD system “Emergency [work] Order” notification was transmitted to the service vehicle of a WG service technician, who was assigned to / working out of the WG Rockville, MD, field service office (referred to as the “Northwest” field service office), who was closest to the accident site.
- 00:12:04 The WG CAD transmission [to the service technician’s vehicle] was followed by a phone call by WG Operations Dispatch to the service technician (a routine step of the response procedure), to confirm that the dispatch notification was received, to which the service technician indicated that it was. As preparation for departure to the incident site, the service technician engaged in several [pre-departure] preparatory steps (i.e., a phone call to his supervisor alerting him to the report received, data entry [keypunch site address] into a mapping support device [to provide a driving route to the scene], a call back to Operations Dispatch reporting his estimated time of arrival [ETA] at the site).
- 00:18:20 EMS duty-officer (EMS701) arrived at the scene.
- 00:23 [Radio call indicating] EMS duty-officer (EMS701) established a “Triage Division” (a triage area), which was located at the BestWay (retail store) parking lot, a short distance west of the entrance to the 8701 Arliss Street property.
- 00:21:00 The WG service technician’s vehicle departed the Rockville field service office, enroute to the scene.
- 00:28:30 MAB 722 (mobile ambulance bus) dispatched to the scene.
- 00:38:23 WG service technician’s vehicle arrived proximate to the accident site. The service technician, upon ‘staging’ the van (parking at an appropriate location), then proceeded, on foot, to make contact with the MCFRS command officer(s); he was requested to shut-off the natural gas flow to the burning structures (the properties located at 8701 and 8703 Arliss Street).
- 00:42:52 WG field supervisor arrived at the accident scene, to join-up with (and support) the responding service technician already at the scene.
- 00:46 [Radio call indicating] a firefighter was down (unconscious at the scene).
- 00:48 [Radio call indicating] another firefighter was down; both firefighters were subsequently treated at a medical facility and released.
- 00:52:42 The first ambulance departs the scene with a patient, enroute to a medical facility.

- 00:51 [Radio tone indicating] a command to evacuate the 8701 and 8703 structures.
- ~00:51 MCFRS reports [in a radio call] “Wash Gas just found gas shut off, will be controlled momentarily”.
- 00:53 [Radio tone indicating] evacuation of the 8703 structure completed.
- 00:54 [Radio call indicating] MAB 830 [PG Co mobile ambulance bus] arrived at the scene; was placed in staging.
- 00:56 MCFRS reports [in a radio call] “Wash Gas shutting off gas now”.
- 01:06 MCFRS reports [in a radio call] “Gas has been secured”, and “Gas fed flame has dissipated”. Fire suppression efforts continued.
- 01:06:10 WG field supervisor reported to WG - OD, closure of the 2-inch mainline valve in the natural gas service pipeline that leads to the two burning structures. The flames that had engulfed the subject fire-involved structures were observed by the WG on-scene personnel to immediately subside. Fire suppression by the responding MCFRS resources continued.
- 02:11 MCFRS reports [in a radio call] “Master Streams are shut down”.
- 02:16 MCFRS reports [in a radio call] “No visible fire in 8701”. Subsequent to this, the MCFRS remained at the scene throughout the night and the following day.
- 03:13 [Radio call indicating] a firefighter with a hand injury; the individual was subsequently treated at a medical facility and released.
- 06:25:11 The final ambulance departs the scene with a patient, enroute to a medical facility.
- 21:54:19 MCFRS conclude (fire response) operations at the scene.

-- End of Exhibit --