

Investigation Report

Case

SPFD211020045888	Blank, Jo	oseph	Closed		N/A
Case Number	Lead Inve	estigator	Status		Name
Confidential		Accidental		Electrica	l System
Confidentiality		Disposition		Fire Caus	e
10/20/2021	12:15				
Start Date	Start Tim	ne	End Date	_	End Time
Saint Paul Fire Department				Saint Pau	ıl Police Department
Primary Fire Department		Secondary Fire	Denartment	Law Enfo	rcement
		Secondary Fire	Separement	Luw Linio	
se Narrative The fire department was ca fire burning in a garage and batteries on chargers and the garage. There were numerous Study of the area of origins interior east wall near the semagazines in this immediate.	l quickly exti he air condit ous lightning showed a V- ervice door.	eport of a fire in a inguished the fire. ioner was not bei g strikes in the are pattern of fire dar Firefighters state	detached garage. F The occupant state ng used. The owner a at the time of the nage below the leve d that there were n	Firefighters arri es that in the ar does admit to fire with a thur el of a duplex el umerous ignita	ved to find a small interior ea of origin there were no occasionally smoking in the nderstorm rolling through. lectrical outlet on the ble paper items such as
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Fire

	Vehicle storage area; garage, carport		
Fire Cause A	rea of Origin	Equipment Power Source	Equipment Portability
Area of Origin Comments		1.1	
Electrical arcing		Fiberboard, particleboa	rd, and hardboard
Heat Source		Material Ignited	
Equipment Involved In Ignition	 Equipment Make	Equipment Model	Equipment Serial Number
Confined to building of original Fire Spread Material	y···	Fire Spread Avenue	
Smoke Spread Material		Smoke Spread Avenue	
		Smoke Spread Avenue	
Fire Comments			
eather	1.1	1.1	11
		23	ENE
Visibility	Relative Humidity (%)	Wind Speed (Mph)	Wind Direction
55.0	0.0	Yes	
	Precipitation	Lightning	Information Obtained From Weather
Temperature (Fahrenheit)			

Property Details (1 of 1)

N/A			
Name		1.1	
1015 Churchill Street			
Address		Apt/Suite/Roo	m
Saint Paul	Ramsey County	Minnesota	55103
City	County	State	Postal Code
\$30,000.00	\$3,000.00	\$10,000.00	
Pre Fire Value	Content Loss Value	Structure Los	ss Value
Property Description			
ea			
Structure	Urban	П	
	1 1		

Structure Parking garage, general vehicle Property Use Structure Occupancy No Alarm Type **Smoke Detector Present** Smoke Detector Performance None Sprinkler Standpipes Performance Sprinkler Standpipes 20 25 Structure Length (Ft) Structure Height (Ft) Structure Width (Ft) Number Of Stories Number Of Units Wood Frame Type V StructureMaterial Wood Structure Type Construction Type Structure Material Asphalt Slab Wood Pitched Foundation Exterior Covering Roof Type Roof Material

The interior study of the structure started on the south elevation. A large amount of personal belongings were stored along the interior surface of the overhead garage door. Entrance to the interior of the structure was made on the east elevation, through the service door.

Study of the interior showed increasing smoke and fire damage along the east wall. An electrical sub panel, on the north side of the doorframe showed no signs of smoke or fire damage and appeared in good condition. The main circuit breaker was found in the off position and it was learned that firefighters turned this circuit breaker off during fire suppression activities. A circuit breaker on the right side of the panel was not numbered but it was the third and last circuit breaker on that side of the panel. According to the index label this circuit breaker serviced the air conditioner which is in the area of greatest fire damage.

Approximately two feet to the north of the electrical sub panel, along the east wall was A "V"-shaped pattern. This pattern was in the area of greatest fire damage. The fire dynamics from around the "V"-shaped pattern indicated that the fire traveled upward along the east wall to the exposed roof beams and rafters of garage roof. The beams and rafters showed greater damage closest to the area of the "V"-shaped pattern below.

Potential fuel sources in this area included magazines, cardboard boxes and a wooden bed frame. Ignition sources in the area of the "V"-shaped pattern included a duplex outlet, a blue extension cord and an air conditioner plugged into the duplex outlet.

Study of the area of origin, around the "V"-shaped pattern revealed the following potential ignition sources: a duplex outlet, a blue extension cord, and a plugged in air conditioner window unit.

Study of the duplex outlet showed that the air conditioner unit was plugged in but not in the on position. There is no damage to the air conditioner plug prongs. The blue extension cord was reportedly found by firefighters on the floor but not plugged into the outlet. The blue extension cord also shows no signs of arcing or damage to the plug prongs and there is fire and heat damage to the face of the plug that was not protected during the fire.

Study of the duplex outlet showed fire damage to the interior of the plastic junction box and possible arcing and melting on the black wire connection that was not making good contact with the screw head of the outlet. Study of the black wire showed signs of melting closest to the screw head and possible metal on the surfaces around the screw terminal connection.

Interior Exam

Study of the south elevation shows that firefighters cut a large opening to the overhead door during fire suppression activities. The wood siding was removed above the garage door toward the peak of the roof by firefighters during firefighting. Smoke and fire damage is visible on the western peak of the roof. Study of the west and north elevations did not show any signs of smoke or fire damage. Study of the east elevation revealed minor smoke damage around the

upper portion of the service door frame. The service door was removed by firefighters during firefighting operations.
An air conditioner was on the east wall to the north of the service door. The window type air conditioner showed signs
of moderate smoke damage to the exterior of the unit. A weather proof exterior duplex outlet, to the mounted to the
wall to the south of the service door revealed no signs of smoke or fire damage.

Exterior Exam

None	No	
Sprinkler Standpipes	Smoke Detectors Present Sm	noke Detector Locations Fire Suppression
Closed And Unlocked	Closed And Locked	
Doors	Windows	Other Entrances
ilities		
ilities		
ilities Electrical Status	L_	ectrical Entrance
	Ele	ectrical Entrance
Electrical Status	1.1	1.1
	Natural Fuel Type	Xcel Energy
Electrical Status	Natural Fuel Type	Xcel Energy Fuel Company
Electrical Status Fuel Status	Natural Fuel Type	Xcel Energy Fuel Company City of Saint Paul Municipal Water

Witness Statement (1 of 3)

ness Statement			
ast Name	First Name		Middle Name
911 Caller			
Гуре		Employer	
	[
nterviewed Date	Interviewed By		Interviewed By Other
Street 1		Street 2	
City	State		PostalCode
			П
Orllandid van Garb baara	anna af tha fina?		
Q: How did you first become		vos to Doshallak	s gasage and these was smake
Q: Did you come out the bac		ver to Rochette :	s garage and there was smoke.
A: Yeah.	kside or your nouse:		
Q: Where was the smoke cor	mina from?		
	_	called 911 And	right after I called 911, I pounded on
Rochelle's side door.	rom the apper part. And them	called 711. And	right dicer reduced 511,1 podificed on
Q: Was there anything else y	ou noticed when you walked o	ver; could you s	ee where the fire was?
A: Right away I knew it was o	going on inside the garage.		
Q: Did the doors appear to b	e closed at that time?		
A: Yes.			

Witness Statement					
Stariha	Rochelle		A		
Last Name	First Name		Middle Name		
Owner/Occupant					
Туре		Employer			
Interviewed Date	Interviewed By		Interviewed By Other		
1015 Churchill St					
Street 1		Street 2			
Saint Paul	Minnesota		55103		
City	State		PostalCode		
White	05/14/1968				
Race	Date of Birth		Driver's Liscense Number		
A: I don't know, my mother sold it to passed away four years ago. Q: Is your house insured? A: Yes, State Farm. Q: Were the doors to the garage clo. A: The side door was closed but unlo house. Q: Was the overhead door locked? A: Yeah. Q: Any problems with the garage or	sed and locked? ocked because I had be	en going in and out ol			
extension cords to plug it in inside the over a third 100 foot extension cord Q: Were there any lightning strikes i	ne garage by the sub p with my mower but I f n your neighborhood?	anel. I ran over two ex	ectric mower into it but now was using ktension cords and my daughter ran		
	A: I heard thunder in the neighborhood.				
	Q: Was the air conditioner running at all? A: No. It's heated too but that wasn't on either.				
Q: Were any of the extension cords					
		e that I would plug in a	and run it to the door and then plug one		
Q: Any other problems in the garage	. mechanical or electri	cal?			
A: None that I'm aware of.	,caramed or electri				
. a realized in aware on					

Q: What was along the east wall of the garage interior by the duplex outlet?

A: I had a couple of bunkbeds, a crib.

Q: Any ignition sources like batteries on charge?

A: No, in fact we got some of the tools we were going to need, some old Ryobi's, and took them in the house. There are some still on a work bench in the back of the garage that I don't know how to use [referring to the north side of the garage].

Q: Any candles in the garage?

A: No.

Q: Does anyone smoke in the garage?

A: You know, I work in the garage; I'm a smoker, I'll admit that. I don't usually smoke while I'm working because it's kind of hard to move things and do things. I'm not going to say I've never smoked in there but I don't when I'm working.

Q: Do you dispose of cigarettes on the floor of the garage?

A: You know what? I had a friend that I let put some of his, he's an electrician, and I let him and he really pissed me off because he would.

Q: Like stamp them out on the floor? [referring to the cigarette butts]

A: Yes.

Q: How long ago had someone smoked in the garage?

A: I probably did it just to look at it or show my kids cause they came to help me yesterday to winterize it. But like I said, normally I don't smoke out there at all when I'm working.

Witness Statement Comments

Witness Statement (3 of 3)

itness Statement		
Captain Engine #22		
Last Name	First Name	Middle Name
Fire Department		
Туре	Employ	ver .
Interviewed Date	Interviewed By	Interviewed By Other
Street 1	Street 2	2
Saint Paul	Minnesota	
City	State	PostalCode
Race	Date of Birth	Driver's Liscense Number
paperwork on fire and on fur panel in the garage and we s didn't use it; a light water pu Q: It was all buttoned up? A: The door was shut but unl	ther investigation it looked like an obvic hut off the main and there's also a circui t it out.	vere in there first. It looked like there was a box of ous V-pattern coming from an outlet. There's a sub it breaker tripped. We pulled a preconnect but

Conclusion

_	_	
(ase	(onc	lusion

After examination of the fire scene, observation of fire patterns of both movement and intensity and interviews conducted, it is my opinion the fire began within the interior of the garage along the east wall at a duplex electrical outlet. The ignition source was probably an electrical arc either from a power surge from a lightning strike or from a high resistance electrical connection. The first fuel ignited was plastic and fiberboard. The oxidant was atmospheric air. The action that brought these items together was either due to a lightning strike from a passing thunderstorm or from a high resistance connection at the duplex outlet. The classification of fire cause is accidental. This concludes my investigation and report.

Si	gnature			
	Blank, Joseph			
	Lead Investigator	Signature	Date Submitted	

Document Attachment List

Photo Log