UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK		
THE CIVIC ASSOCIATION OF THE DEAF OF	:X	
NEW YORK CITY, INC. (also known as		
the New York City Civic Association	:	
of the Deaf) and STEVEN G. YOUNGER II,		
on behalf of themselves and all	:	•
others similarly situated,		
Plaintiffs,	•	05 Civ. 9501 (DWC)
1 idillillis,		95 Civ. 8591 (RWS)
V.	•	
·	•	e de la companya de
RUDOLPH GIULIANI, as Mayor of the	•	
City of New York, HOWARD SAFIR, as	:	CORRECTED
	•	DECLARATION OF
Commissioner of the Fire Department		ROBERT B. STULBERG
of the City of New York, CARLOS	:	IN SUPPORT OF
CUEVAS, as City Clerk and Clerk of		PLAINTIFFS'
The New York City Council, PETER	:	OPPOSITION TO
VALLONE, as Speaker and Majority	•	DEFENDANTS' MOTION
Leader of the New York City Council,	:	TO VACATE OR
THOMAS OGNIBENE, as minority Leader		MODIFY INJUNCTION
of the New York City Council, and	•	
the CITY OF NEW YORK,		
Dofondanta	:	
Defendants.		
	; v	
·	A	

EXHIBIT 3

UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK

. 6

THE CIVIC ASSOCIATION OF THE DEAF OF NEW YORK CITY, INC. (also known as the New York City Civic Association of the Deaf) and STEVEN G. YOUNGER II, on behalf of themselves and all others similarly situated,

Plaintiffs,

95-CV-8591 (RWS)

RUDOLPH GIULIANI, as Mayor of the City of New York, HOWARD SAFIR, as Commissioner of the Fire Department of the City of New York, CARLOS CUEVAS, as City Clerk and Clerk of The New York City Council, PETER VALLONE, as Speaker and Majority Leader of the New York City Council, THOMAS OGNIBENE, as Minority Leader of the New York City Council, and THE CITY OF NEW YORK,

Defendants.

March 15, 2011 2:15 p.m.

 Deposition of PAUL LIVINGSTON, pursuant to subpoena, at the United States Courthouse, 500 Pearl Street, New York, New York, before Samuel Mauro, Jr., a Registered Merit Reporter and Notary Public of the State of New York.

APPEARANCES: 3 4 BROACH & STULBERG, LLP Attorneys for Plaintiffs One Penn Plaza, Suite 206 New York, NY 10119 BY: AMY F. SHULMAN, ESQ. NEW YORK CITY LAW DEPARTMENT OFFICE OF THE CORPORATION COUNSEL For Defendants 100 Church Street, Room 2-178 New York, NY 10007 BY: JONATHAN PINES, ESQ. 10 Assistant Corporation Counsel 11 12 DAVIDOFF MALITO & HUTCHER 12 Attorneys for Paul Livingston 13 605 Third Avenue 13 New York, New York 10158 14 BY: MARK E. SPUND, ESO. 15 16 17 18 19 20 21 22 23

24 25

9.

IT IS HEREBY STIPULATED AND AGREED, by and between counsel for the respective parties hereto, that the sealing and filing of the within deposition be waived; that such deposition may be signed and sworn to before any officer authorized to administer an oath; that all objections, except as to form, are reserved to the time of trial.

13fnlivd Livingston 2 PAUL LIVINGSTON, called as a witness by the Plaintiffs, having been duly sworn, testified as follows: DIRECT EXAMINATION 6 BY MS. SCHULMAN: Q. Good afternoon, Mr. Livingston. My έ٠ name is Amy Schulman. We met a few minutes ago. 9 I am one of the attorneys for the plaintiffs in 10 this case in which you have been subpoensed to 11 testify during the deposition. 12 I am going to be asking you some 13 questions today, and if at any point you don't 14 understand my question, please let me know, and 15 I will try to clarify it for you. If at any 16 point you need a question repeated or read back, 17 just let me know, and either I or the court 18 reporter will read it back. 19 If at any point you need a break just let me know, and as long as there is no question 20 21 pending, we will be able to take a break. 22 Δ. 23 Q. Would you please state your business 24 address.

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1272 West Main Road in Middletown,

1	13fnlivd	
2		Livingston
3	Rhode Isl	•
4	Q.	Are you on any medication that would
	interfere	With your ability to testify
5	cruthrull	y today?
6	A.	No.
7	. Q.	Are you on any medication that
8	· interfere	s with your memory?
9	A.	No.
10	Q.	Where, if anywhere, are you currently
11	employed?	, and are you carrenery
12	A.	PURVIS Systems, Incorporated.
13	Q.	Since when have you been employed
14	there?	mane make You peem embroked
15	Α.	Since 2001.
16	Q.	What is your title?
17	Ä.	Engineering department manager.
18	٥.	Have you had any different titles at
19	PURVIS?	for had any different titles at
20		T was a handeren
21	previous.	I was a hardware engineering manager just prior to that. And I was
22	previously	with province I am I was
23	left, and	with PURVIS. I was with PURVIS, I
24	that I was	then I came back in 2001. Prior to
25	Q.	an electrical engineer.
	Q.	What are your current duties at

.1	13fnlivd	Livingston	6
2	PURVIS?		
3	A.	I oversee the day-to-day operations	- A
4	the engin	eering department.	> O.
5	Q.	Has that been your duty since, the	
6	entire ti	me you have been in your current tit	-1-2
7	Α.	My current title, yes.	
. 8	Q.	When did you assume your current	
9	position?		
10	Α.	About four years ago.	
11	Ω.	Do you have a functional title or	
12	additiona:	I title other than the one that you	
13	mentioned	earlier?	
14		No.	
15	Q.	What were your duties in the previo	115
16	title you	held at PURVIS?	
17	A.	Hydroengineering manager. I oversa	W
18	the hydro	engineering group. That is a hardwa	re
19	design fur	nction.	
20	Q.	Have you had any positions at PURVI	S
21	that you h	laven't mentioned?	
22	Α.	No.	
23	Q.	During what period of time did you	
24	work at PC	JRVIS before 2001?	
25	Α.	I was employed there between 1988 at	nd

•		7
	13fnlivd	Livingston
. 2	1995.	
3	Q.	What titles did you have during that
4	period?	
5	A.	That was electrical engineer.
6	Q.	For the whole time?
7	A.	Yes.
. 8	Q.	Where did you work between 1995 and
9	2001?	2 333 8114
10	A.	At the Naval Undersea Warfare Center.
11	Q.	That sounds interesting. What was
12	your posi	tion there?
13	Α.	
14	Q.	You were at the Naval Undersea Warfare
15	Center fr	om '88 to 95?
16	A.	No, '95 to 2001.
17	Q.	I'm sorry, '95 to 2001.
18		Have you ever heard of or are you
19	familiar y	with street alarm boxes in New York
20	City?	Description of the second seco
21	Α.	Yes.
22	Q.	Do you have any responsibilities
23	regarding	street alarm boxes in New York City?
24	Α.	I oversaw the modernization of the
25	Emergency	Reporting System, otherwise known as

13fnlivd Livingston ERS and the design of a modernized callbox. 3 When did you oversee the modernization Q. of ERS? 5 Α. That would have been 2001, and really 6 it still goes on today. You referred to a modernized callbox. Q. Α. Correct. What did you mean by that? Q. 10 A. The City purchased a thousand modern callboxes approximately a couple of years ago. 11 12 What were your responsibilities, if Q. 13 any, regarding the purchase of modern callboxes? 14 Really more of a program manager, to 15 oversee the effort. 16 I should say what were your responsibilities regarding the modern callboxes 17 18 that were purchased by the City? 19 Yes. It was project manager, program A. 20 manager. 21 Q. What did you do as program manager? 22 Just oversee the day-to-day design A. 23 effort and production of those boxes. 24 The callboxes that you were referring Q. 25. to before the modern callboxes were sold, are

Livingston 2 you familiar with the mechanics of how those 3 boxes work? A. Yes. 5 Can you describe how those boxes work. Q. б A. Sure. The boxes are essentially for voice communications between a citizen on the 8 street and a dispatcher, either a fire 9 dispatcher or a police dispatcher. There are two buttons; one is for fire, one is for police. 10 If you depress the police button, you are routed 11 to a 911 dispatcher essentially. If you press 12 13 the fire button, you are routed, your voice is routed to a fire dispatcher in one of the five 14 15 boroughs. 16 Does PURVIS have any responsibilities Q. 17 regarding maintenance of alarm boxes, whether 18 modern or premodern? 19 Not the maintenance, no. Α. 20 Does PURVIS have any responsibilities 21 regarding repair of any alarm boxes used by the 22 City? 23 A. Yes. We repair the boxes. 24 If you know, has that been the case Q. 25 since 2001?

10 13fnlivd Livingston A. I don't know. I don't know the 3 inception. Q. Do you have any responsibilities 5 regarding repair of any city boxes? 6 Α. I do not. How is it that the callbox signals the Police or Fire Department, depending on the which of the two buttons is pressed by a caller? 9 10 Sure. In each of the Fire Department 11 borough communications offices, there is a 12 system that receives the signaling within each 13 borough. The signaling from the box to that 14 central system carries a code that identifies it 15 a fire or police call. 16 Q. How, if at all, does the central 17 office know which box has been activated? 18 The boxes are on circuits throughout 19 each borough. So there is a circuit number, and 20 then each box has an identification code built 21 into the box. So as the central system decodes 22 the box number, it knows what circuit it came in on, so it knows the circuit and box ID, and then 24 there is a lookup table that says it is at this 25 address or this box number.

11 13fnlivd Livingston 2 Q. How is information transmitted from 3 the callbox to the central office via the circuits to notify the department of the box 5 number? 6 A. It is a two-frequency communication protocol. And it is 100 hertz and 140 hertz. 7 8 They're essentially used as digital bits, which encode the box number and whether it is a police 10 or fire call. 11 What, if anything, does the box do in Q. 12 response to being activated by the caller to let 13 the caller know that the box is working? Sure. When you push the button, it 14 15 will play, the speaker in the callbox will play 16 what's called a ringback tone. 17 How is that ringback tone activated? Q. 18 The electronics in the box itself. As soon as the button is pressed, there's sort of a .19 20 state machine that says, OK, a button is 21 pressed, I'm ringing the central office, I'm 22 ringing the central tone. 23 If the box is working, the tone will Q. 24 always play back? 25

That's correct.

Α.

12 13fnlivd Livingston Q. Is the ringback tone on a particular frequency? A. 400 hertz. Q. And for how long does the ringback 6 tone play? 7 I believe it's on for 3.2 seconds. It A. 8 is a sequence, 3.2 seconds on, 3.2 seconds off, 9 and that will be repeated until the dispatcher 10 picks up. 11 Once a dispatcher picks up, how is the Q. dispatcher's voice communicated, if at all, to 12 13 the person using the box? 14 Whenever the dispatcher talks, the A. 15 audio will come to the speaker on the box. 16 Does the ringback tone that you 17 mentioned also generate any vibration on the 18 box? 19 Α. Yes. I mean sound in and of itself is a vibration, so if you hold your hand up to the 20 speaker grill you can feel the 400 hertz on your 21 22 The button flaps will vibrate as well. fingers. 23 That's I'm talking about, the ringback Q. 24 tone. 25 Α. Correct. Yes.

13 13fnlivd Livingston Is that what's known as a mechanical Q. vibration? 4 The button flaps, because the speaker is mounted to, you know, it's mechanically 6 attached to the metal frame of the box. It's a mechanical vibration. 8 Q. So a caller would know that a box is working either by hearing the ring tone or by 9 feeling the vibration of the ring tone? 10 11 A. Sure. 12 Is there also a way to feel the Q. vibration of the dispatcher's voice coming . 13 14 through the box? 15 Yes. It is the same principle. Sound 16 is just a vibration, so as long as that voice is 17 there, you should be able to feel it. 18 Where on the box, just to make sure Q. 19 we're clear, where on the box would a caller 20 feel vibration of the ring tone? 21 Right on the speaker grill. There are 22 holes in the front panel where the speaker is 23 behind, so right there is the optimum place. 24 MS. SCHULMAN: I said I am not going 25 to mark exhibits but --

13fnlivd Livingston (One-page document, entitled Callbox Usage, was marked Plaintiff's Exhibit PPPP for identification) The only reason we're using this is for the picture. Do you recognize this picture as an ERS box? A. Yes. 9 Can you point out where on this 10 picture a person could feel the vibration of the 11 ringback tone? 12 Α. The white area that's right in the middle, there is a series of dots, that's really 13 14 the speaker grill. That is what I was referring 15 to earlier. That's the best place. Could a person also feel the vibration Q. of the ringback tone on either of the flaps that 17 18 are below that speaker grill? 19 Yes. You can also feel it there. .20 Where, if anywhere, would a person feel the vibration of the dispatcher's voice 21 22 when it comes through? 23 A. In the same two locations. 24 You mentioned that you were, I think, 25 project manager for the modern callbox sale or

15 13fnlivd Livingston you were project manager in connection with the sale of what you referred to as modern callboxes? Α. Correct. 6 Q. How, if at all, do the modern callboxes differ from the callboxes that were 7 used by the City, the ERS callboxes that were used by the City before the modern callboxes? 10 Α. Could you state that question again. 11 Q. I'm just trying to ask -- sorry, it was a bad question -- how modern callboxes are 12 13 different than the callboxes that were, than the ERS boxes that were in place at the time or just 14 15 before the modern callboxes were sold. 16 They are a digital design, whereas the legacy box is an analog design primarily. The 17 18 modernized box provides for up to 64 box codes, 19 whereas legacy only had 32. And it's essentially a software-based design rather than 20 21 a hardware design. 22 Do you know whether the modern Q. 23 callboxes replaced all of the ERS boxes that were existing at the time just before the sale? 24 25 I don't know.

1	136.1.
1	13fnlivd Livingston
2	Q. Do the modern callboxes from the
3	caller's perspective work the same way as the
4	premodern callboxes?
5	A. Yes, they do.
6	Q. Is it accurate to say on the modern
7	callboxes that once a box is activated a
8	ringback tone is played?
9	A. Yes.
10	Q. The ringback tone is the same as the
11	ringback tone you mentioned earlier?
12	A. That's correct.
13	Q. On the modern callboxes the caller
14	would be able to feel the vibration of the
15	ringback tone on the speaker grill you pointed
16	to?
17	A. That's correct.
18	Q. As well as the police and fire button
19	flaps?
20	A. Yes.
21	Q. Do the modern callboxes allow for
22	two-way voice communication between a caller and
23	dispatcher?
24	A. Correct.
25	O. A caller on the modern call

17 13fnlivd Livingston be able to feel the vibration of the caller's voice on the speaker grill? Yes. Q. And on the police or fire flaps? Correct. A. MS. SCHULMAN: Let me see if I have anything else. I don't have anything else. 9 MR. PINES: No questions. 10 MS. SCHULMAN: Mark, do you have 11 anything? 12 MR. SPUND: Me? No. Off the record. MS. SCHULMAN: Thank you for coming 13 14 down. .15 (Time noted, 2:30 p.m.) 16 17 18 18 19 19 20 20 Subscribed and sworn to before me this / 4th day 21 21 of tsph April 2011. 22 22 23 any commision expires 4/3/15 24

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18 13fnlivd Livingston 3 CERTIFICATE STATE OF NEW YORK) 5 5 COUNTY OF NEW YORK) 6 7 I, Samuel Mauro, Jr., a Registered 8 Merit Reporter and Notary Public within and for . 9 the State of New York, do hereby certify: 10 That PAUL LIVINGSTON, the witness 11 whose deposition is hereinbefore set forth, was 12 duly sworn by me and that such deposition is a 13 true record of the testimony given by such 14 witness. 15 I further certify that I am not 16 related to any of the parties to this action by 17 blood or marriage and that I am in no way interested in the outcome of this matter. 18 19 In witness whereof, I have hereunto 20 set my hand this day of 21 22 23 24 25 SAMUEL G. MAURO, RMR

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Livingston

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2	INDEX OF EXAMINATION
3	Examination of:
4	PAUL LIVINGSTON
5	By Ms. Schulman
6	PLAINTIFF EXHIBITS
7	Exhibit
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EBT CORRECTION SHEET

DEPOSITION OF Paul Livingston

Page	Line	Corrections
6 17	6	Should state "Hardware Engineering Manager"
6	18	Should state "Hardware Engineering Group"
	,	
		- 11

Sworn to before me this // day of April, ,2011

commision expres 4/3/15

Paul Livingston

DM:80003450.1 80003450