

SECTION 6

CONCLUSION

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SECTION 6

CONCLUSION

"It's a no-brainer. If you care about yourself and your family, this is a chance to see about your condition, to prevent a condition from worsening or find out if anything has popped up."

Capt. Bill Butler

"This is a good program; I highly recommend it to other retirees. The evaluation was very extensive, thorough. For retirees with concerns about their future health, they should come down for this medical evaluation for their piece of mind and for their families, too. There may be unknowns popping up or some problems may show accelerated rate, so it's important to know what is going on. Everyone at BHS treated us professionally and in a caring manner."

Lt. Dennis O'Berg

The World Trade Center Medical Monitoring and Treatment Program is committed to monitoring, assessing and treating the immediate health effects that became evident shortly after the disaster; the long-term health effects that have become prevalent in the years since 9/11; and late-emerging diseases that may occur in the years that follow. This belief is shared by Mayor Bloomberg and the members of his WTC Health Panel, who have been strong advocates of federal resources to fully fund not only the FDNY WTC Program, but the Mount Sinai Consortium's WTC Medical Monitoring and Treatment Program for non-FDNY responders and the Bellevue Hospital Environmental Health Center Treatment Program.

This report has presented information on the health effects of 9/11, which confirms that the WTC exposure was unique and its effects are far-reaching and widespread among FDNY rescue workers. It is clear that exposures of FDNY personnel require a continued commitment to health monitoring and treatment.

Thankfully, for many, time and treatment have allowed medical and psychological problems to resolve or diminish in severity since that fateful day. Unfortunately, for others, illness persists. Some of these issues continue to present them-

selves throughout our work force (Fire and EMS, active and retired). Pulmonary function tests demonstrated an unprecedented decline in lung function in the year following September 11, 2001. Follow-up studies are in progress to determine the extent to which these declines have continued. Given the nature of the job, respiratory symptoms, such as shortness of breath, which may occur as a result of lung function loss, can impair our members' ability to function at work. Similarly, PTSD, depression and anxiety can cause serious problems, both at work and home.

The FDNY WTC Program has performed monitoring evaluations on more than 14,245 active and retired FDNY rescue workers. Identifying these problems through regular monitoring evaluations and providing treatment when needed, provide the best chance for preventing emphysema and pulmonary fibrosis and fighting cancer and other late-emerging diseases.

Treatment options can take different paths, including specialized procedures, such as chest CAT scans, cardiac stress tests and endoscopies. "Tobacco Free with FDNY" is a nationally renowned tobacco cessation program that can help those members who wish to "kick the habit." We urge our members to take advantage of this program. Although we did not find tobacco use

to be associated with WTC-related declines in pulmonary function or with increases in sarcoid, it is well-known that smoking increases the future risk of developing cardiopulmonary diseases and cancer. As of December 1, 2006, the FDNY WTC Program began to offer a free medication program for WTC-related illnesses. We believe that this is an indispensable part of our Treatment Program, as many of our members and union security benefits funds (prescription plans) have been burdened financially by paying for WTC medications. By offering medications at no cost, a barrier to care is removed so that health outcomes can be improved.

We advise all members who worked at any of the WTC sites to remain active in the FDNY Monitoring and Treatment Program. Only with early diagnosis and treatment can there be improvement in health outcomes and demonstrated need for continued funding of this vital program. Member participation does not begin and end with a visit to BHS; we will be periodically contacting members for case management follow-ups and we urge members to contact us if any new or additional medical or psychological issues arise. You are the best source of information about your own well-being and active participation in this program will help us continue to

work as a team in maintaining your health.

This report has presented the information and data that we have gathered during the past five years. It is a reflection of how the FDNY has responded to meet the needs of our members. It is clear that we continue to see members who are still suffering from a variety of ailments that can be attributed to this event. It is also clear that only with long-term health monitoring and treatment will we learn how this exposure correlates with the onset of serious long-term diseases, such as emphysema, pulmonary fibrosis and cancer.

We wish to thank all those who served so selflessly at the WTC on and after September 11, 2001. The WTC Monitoring and Treatment Program has been a successful joint labor/management initiative that has served as a model for New York City. Health and fitness are of paramount importance in fulfilling the mission of protecting life and property in New York City. Our shared goal continues to be to maximize the physical and mental health of our work force, both now and in the future. Working together, we will continue to make progress toward that goal. Our health is a gift that deserves our close attention. Be well and stay safe.

APPENDIX A • PUBLICATION LIST

Acute Eosinophilic Pneumonia in a New York City Firefighter Exposed to World Trade Center Dust. By Rom WN, Weiden M, Garcia R, Ting AY, Vathesatogkit P, Tse DB, McGuinness G, Roggli V, Prezant DJ, published in *American Journal of Respiratory and Critical Care Medicine*, July 2002; 166:797-800.

Cough and Bronchial Responsiveness in Firefighters at the World Trade Center Site. By Prezant DJ, Weiden M, Banauch GI, McGuinness G, Rom WN, Aldrich TK and Kelly KJ, published in *New England Journal of Medicine*, September 12, 2002; 347:806-15.

Injuries and Illnesses Among New York City Fire Department Rescue Workers After Responding to the World Trade Center Attacks. By Banauch GI, McLaughlin M, Hirschhorn R, Corrigan M, Kelly KJ, Prezant DJ, published in *MMWR*, September 11, 2002; 51:1-5.

Use of Respiratory Protection Among Responders at the World Trade Center Site--New York City, September 2001. By Prezant DJ, Kelly KJ, Jackson B, Peterson D, Feldman D, Baron S, Mueller CA, Bernard B, Lushniak B, Smith L, BerryAnn R, Hoffman B, published in *MMWR*, September 11, 2002; 51:6-8.

Persistent Hyperreactivity and Reactive Airway Dysfunction in Firefighters at the World Trade Center. By Banauch GI, Alleyne D, Sanchez R, Olender K, Weiden M, Kelly KJ, Prezant DJ, published in *Am. J. Resp. Crit. Care Med.*, February 2003; 168:54-62.

Biomonitoring of Chemical Exposure Among New York City Firefighters Responding to the World Trade Center Fire and Collapse. By Edelman P, Osterloh J, Pirkle J, Grainger J, Jones R, Blount B, Calafat A, Turner W, Caudill S, Feldman DM, Baron S, Bernard BP, Lushniak BD, Kelly KJ, Prezant DJ, published in *Environmental Health Perspectives*, September 2003; 111:1906-1911.

Rising to the Challenge: The Counseling Service Unit of the Fire Department of New York Moves Forward After September 11, 2001. By Corrigan MP, Kelly KJ, Prezant DJ, Hart M, Crawford L, published by FDNY, 2003.

Symptoms, Respirator Use, and Pulmonary Function Changes Among New York City Firefighters Responding to the World Trade Center Disaster. By Feldman DM, Baron S, Mueller CA, Bernard BP, Lushniak BD, Kelly KJ, Prezant DJ, published in *Chest*, April 2004; 125:1256-64.

Induced Sputum Assessment in New York City Firefighters Exposed to World Trade Center Dust. By Fireman E, Lerman Y, Ganor E, Greif J, Fireman Shores S, Oppenheim E, Flash R, Miller A, Banauch GI, Weiden M, Kelly KJ, Prezant DJ, published in *Environmental Health Perspectives*, November 2004; 112:1564-1569.

Bronchial Hyperreactivity and Other Inhalation Lung Injuries in Rescue/Recovery Workers After the World Trade Center Collapse. By Banauch GI, Dhala A, Alleyne D, Alva R, Santhyadka G, Krasko A, Weiden M, Kelly KJ, Prezant DJ, published in *Am. J. Resp. Crit. Care Med.*, 2005; 33:S102-S106.

Pulmonary Disease in Rescue Workers at the World Trade Center Site. By Banauch GI, Dhala A, Prezant DJ, published in *Curr. Opin. Pulm. Med.*, 2005; 11:160-8.

“Tobacco Free with FDNY” The New York City Fire Department World Trade Center Tobacco Cessation Study. By Bars MP, Banauch GI, Appel DW, Andreaci M, Mouren P, Kelly KJ, Prezant DJ, published in *Chest*, April 2006; 129:979-987.

Pulmonary Function After Exposure to the World Trade Center in the New York City Fire Department. By Banauch GI, Hall C, Weiden M, Cohen HW, Aldrich TK, Christodoulou V, Arcentales N, Kelly KJ, Prezant DJ, published in *Am. J. Resp. Crit. Care Med.*, August 2006; 174:312-319.

FDNY Crisis Counseling: Innovative Responses to 9/11 Firefighters, Families, and Communities. By Greene P, Kane D, Christ G, Lynch S, Corrigan M, published by John Wiley & Sons Inc., Hoboken; 2006.

World Trade Center Sarcoid-Like Granulomatous Pulmonary Disease in NYC Fire Rescue Workers. By Izbicki G, Chauko R, Banauch GI, Weiden M, Berger K, Kelly KJ, Aldrich TK, Prezant DJ, published in *Chest*, April 2007; 131:1414-1423.

PLEASE TAKE THIS PERSONAL HEALTH QUIZ

We are very concerned about your health as WTC responders. These health quizzes are for your personal use and may be able to help you identify WTC-related illness. We hope this information will facilitate your decision on whether self-referral to FDNY-BHS or your own physician is necessary.

Have you experienced any upper respiratory conditions? **NOT COUNTING WHEN YOU HAVE A COLD**, please put a check in the box next to any problems you have had in **THE PAST 4 WEEKS OR REPEATEDLY IN THE PAST 12 MONTHS**.

- Nose irritation, soreness or burning
- Runny nose or postnasal drip
- Frequent nosebleeds
- Nasal or sinus congestion
- Sinus or face pain or pressure
- Frequent headaches

Have you experienced any gastro-intestinal conditions? Please put a check in the box next to any problems you have had in **THE PAST 4 WEEKS OR REPEATEDLY IN THE PAST 12 MONTHS**.

- Difficulty swallowing (feels like food gets stuck)
- Coughing after you lie down or eat
- Frequent nausea (at least 2 times per week)
- Frequent sour or acid taste in the mouth (at least 2 times per week)
- Frequent acid reflux/regurgitation into mouth (at least 2 times per week)
- Frequent heartburn/indigestion (at least 2 times per week)

Have you experienced any lower respiratory conditions? Please put a check in the box next to any problems you have had in **THE PAST 4 WEEKS OR REPEATEDLY IN THE PAST 12 MONTHS**.

- Wheezing or whistling in your chest
- Difficulty taking in a full breath
- Shortness of breath
- Frequent or usual cough (at least 4 times per day, 4 days per week, 4 consecutive weeks per year)

Have you experienced these symptoms when exposed to **IRRITANTS**? Please put a check in the box next to anything that has provoked your lower respiratory symptoms in **THE PAST 4 WEEKS OR REPEATEDLY IN THE PAST 12 MONTHS**.

- Exercise or physical activity
- Strong odors
- Dust
- Allergens
- Temperature or humidity extremes
- Smoke or fumes

The checklist above is not a formal diagnostic tool. It is simply a list of symptoms associated with WTC-related illnesses. If you put a check in the box next to **MORE THAN ONE** of these problems and you were present at one of the WTC sites, you may have a WTC-related illness. Only a health care professional can formally diagnose this condition. Please contact your doctor or call the FDNY-WTC Medical Monitoring and Treatment Program at 718-999-1858 to make a treatment appointment.



FDNY-CSU Locations

Manhattan Counseling Unit

251 Lafayette Street, 3rd Fl, NYC 10012
(212) 570-1693 (24-Hour Line)

Staten Island Counseling Unit

1688 Victory Boulevard
Staten Island, NY 10314
(718) 815-4111

Fort Totten Counseling Unit

Fort Totten Building 413A
Bayside, NY 11364
(718) 352-2140

Brentwood Counseling Unit

Liberty Project Center
Suffolk County Community College
Crooked Hill Road,
Brentwood, NY 11717
(631) 851-6888

Orange County Counseling Unit

2279 Goshen Turnpike
Middletown, NY 10941
(845) 695-1029

Substance Abuse Day-Treatment Program

594 Broadway, Suite 500
(212) 925-6671

FDNY Headquarters

9 MetroTech Center
Brooklyn, NY 11201-3857
(718) 999-1858
(718) 999-0088 (fax)

Medical Monitoring Examinations

FDNY Headquarters

9 MetroTech Center
Brooklyn, NY 11201-3857
(718) 999-1858
(718) 999-0088 (fax)

Tobacco Cessation Program

9 MetroTech Center
Brooklyn, NY 11201-3857
Fort Totten Building 413B
Bayside, NY 11364
(718) 999-1942

APPENDIX B • WELLNESS SELF-TESTS AND TIPS

PLEASE TAKE THIS PERSONAL HEALTH QUIZ

During the past 2 weeks, have you been bothered by any of the following problems? Please put a check in the box next to any problems you have.

- Little interest or pleasure in doing things
- Feeling down, depressed or hopeless
- Sleep difficulties
- Fatigue or lack of energy
- Change in appetite
- Feeling worthless or that you are a failure
- Difficulty concentrating
- Lack of motivation
- Feeling restless or fidgety
- Suicidal thoughts

Do these symptoms affect your ability to function, either at home or work?

- Yes
- No

The checklist above is not a formal diagnostic tool. It is simply a list of symptoms associated with depression. If you put a check in the box next to MORE THAN ONE of these problems, you may have depression. Only a health care professional can formally diagnose this condition. Please contact your doctor or the FDNY Counseling Services Unit to find out what treatment options are available. A list of CSU locations and phone numbers can be found on this page. If you put a check in the box next to suicidal thoughts, you should call your doctor or the FDNY counseling unit 24-hour phone line immediately at 212-570-1693.

Have you lived through a scary and dangerous life-threatening event? Please put a check in the box next to any problems you have had in THE PAST MONTH.

- I feel like the terrible event is happening all over again. This feeling often comes without warning.
- I have nightmares and scary memories of the event.
- I stay away from places that remind me of the event.
- I jump and feel very upset when something happens without warning.
- I have a hard time trusting or feeling close to other people.
- I get mad very easily.
- I feel guilty because others died and I lived.
- I have trouble sleeping and my muscles are tense.

Do these symptoms affect your ability to function, either at home or work?

- Yes
- No

The checklist above is not a formal diagnostic tool. It is simply a list of symptoms associated with Post-Traumatic Stress Disorder (PTSD). If you put a check in the box to MORE THAN ONE of these problems, you may have PTSD. Only a health care professional can formally diagnose this condition. Please contact your doctor or the FDNY Counseling Services Unit to find out what treatment options are available. A list of CSU locations and phone numbers can be found on this page.

Wellness Tips

WHAT YOU CAN DO TO START THE HEALING PROCESS

We are all concerned about WTC-related respiratory and mental health diseases. Cancer and heart disease are concerns for all Firefighters and many of us are concerned that WTC exposures will have a further negative impact. Although none of us can take back our past exposures, there are many steps we can take to reduce our risk for developing illness in the future.

Wellness involves the health of the whole person. The body must be kept strong, fit and well-nourished, so it's able to resist disease and overcome injury. This is a team effort, combining mind, body and spirit. Wellness is more than just not being sick--it's a positive state of health. Wellness means taking responsibility for your own health by:

1. *Learn how to stay healthy*
 - Have an annual medical examination.
 - Respond to your body's warning signs and visit your health-care provider--before something serious happens.
 - Get an annual influenza vaccination.
 - Get a pneumococcal vaccination, especially recommended for those with pulmonary disease.
2. *Practice good health habits and give up harmful ones*
 - Quit smoking now! Eliminate exposure to second-hand smoke. For help quitting, please call the FDNY Tobacco Cessation Program at 718-999-1942.
 - Avoid alcohol abuse and drug use.
 - Avoid occupational or recreational exposures that are known to exacerbate illness. Always wear your mask.
 - Get enough exercise. Adults need at least 30 minutes of physical activity on most days of the week.
 - Practice safe sex with a loved one.
 - Eat right. Make smart choices from each food group every day. If you have gastroesophageal reflux disease (GERD), diet modification and weight control are integral to the management of this disease. Don't eat for 2 hours before lying down and

avoid caffeine, carbonated beverages, chocolate, alcohol, spices, tomatoes and citrus fruits/juice.

3. *Learn how to manage stress*
 - Try to relax. Go to a movie, a ball game or participate in religious, social or other activities that may make you feel better.
 - Improve your environment. Small changes around your home or office help you feel in control.
 - Plan your work to make efficient use of your time and energy.
 - Be realistic. Set practical goals for yourself.
 - Try to be with other people and confide in someone. It is usually better than being alone and secretive.
 - Seek professional help. Don't ignore symptoms of stress.

Focus on your own wellness. You can be healthier, feel better, look better and live longer!

In August 2006, the New York City Department of Health and Mental Hygiene released Clinical Guidelines for Adults Exposed to the World Trade Center Disaster. Due to the fact that many New Yorkers have health problems that may be associated with WTC exposure, it is essential that primary care physicians know how to identify, evaluate, treat and possibly refer these individuals to specialists. The publication suggests how clinicians can determine a patient's exposure history and identifies many health problems that may have been caused or made worse by WTC exposure. It also offers algorithms to help clinicians diagnose, treat and manage WTC-related conditions. The guidelines are included with this book. You can give them to your personal doctor if you so desire. Your doctor also can download them from the NYC Department of Health and Mental Hygiene website at:

<http://www.nyc.gov/html/doh/downloads/pdf/chi/chi25-7.pdf>.

"I think if you have no symptoms at rest, exercise, stress or work and you have been in our monitoring program, then you are fine, but need to continue monitoring in case late-emerging diseases occur. However, if you have symptoms or abnormal findings from the monitoring program, then you should be evaluated for treatment."

Dr. David Prezant

POSTSCRIPT • A SALUTE TO THE RESCUE WORKERS FROM THOSE WHO MADE THE SUPREME SACRIFICE ON 9/11/01



The 9/11 Memorial Waterford Crystal

The sculpture, which depicts the recovery of FDNY Chaplain Father Mychal Judge, took more than 200 hours to create. It was presented to FDNY at the quarters of Engine 1/Ladder 24. The firehouse is located directly across the street from the friary at St. Francis of Assisi Church, where Father Mychal Judge resided.

"When you have a Department whose men and women are expected to be ready at any moment to put their lives on the line, to go to the aid of a stranger, even when it means that you may put yourself in dire peril, I don't think you can pay people to do that job. There has to be something beyond money that makes them do that."

William M. Feehan
First Deputy Fire Commissioner & Former Chief of Department
Made the Supreme Sacrifice on 9/11/01

"I am proud of this Department. But, I am most proud of the men and women-- Firefighters, Officers, Fire Marshals, Paramedics/EMTs, Inspectors and all the dedicated support staff--who so selflessly perform their jobs, often placing themselves at risk, to ensure the health and safety of all New Yorkers and the millions who visit this great City each year."

Peter J. Ganci, Jr., Chief of Department
Made the Supreme Sacrifice on 9/11/01

"You'll have good days and bad days, up days and down days, sad days and happy days, but never a boring day on this job. You'll love this job. What a blessing that is! A difficult job and God calls you to it and gives you a love for it, so that a difficult job will be well-done."

Father Mychal Judge, OFM, FDNY Chaplain
Made the Supreme Sacrifice on 9/11/01

**New York City Fire Department Members
Who Made The Supreme Sacrifice
In The Performance of Duty
At The World Trade Center
September 11, 2001
Manhattan Box 5-5-8087**

First Deputy Commissioner William M. Feehan
Office of Fire Commissioner
Chief of Department Peter J. Ganci, Jr., COD
Assistant Chief Gerard A. Barbara, Operations
Assistant Chief Donald J. Burns, Operations
Deputy Chief Dennis A. Cross, Battalion 57
Deputy Chief Raymond M. Downey, SOC
Deputy Chief Edward F. Geraghty, Battalion 9
Department Chaplain Mychal F. Judge, OFM
Deputy Chief Charles L. Kasper, JRC
Deputy Chief Joseph R. Marchbanks, Jr., Battalion 12
Deputy Chief Orio J. Palmer, Battalion 7
Deputy Chief John M. Paolillo, SOC
Battalion Chief James M. Amato, Squad Co. 1
Battalion Chief Thomas P. DeAngelis, Battalion 8
Battalion Chief Dennis L. Devlin, Division 3
Battalion Chief John J. Fanning, Haz-Mat Operations
Battalion Chief Thomas J. Farino, Engine Co. 26
Battalion Chief Joseph D. Farrelly, Engine Co. 4
Battalion Chief Joseph Grzelak, Battalion 48
Battalion Chief Thomas T. Haskell, Jr., Ladder Co. 132
Battalion Chief Brian C. Hickey, Rescue Co. 4
Battalion Chief William J. McGovern, Battalion 2
Battalion Chief Louis J. Modafferi, Rescue Co. 5
Battalion Chief John M. Moran, SOC
Battalion Chief Richard A. Prunty, Battalion 2
Battalion Chief Matthew L. Ryan, Battalion 42
Battalion Chief Fred C. Scheffold, Battalion 12
Battalion Chief Lawrence T. Stack, Safety Battalion 1
Battalion Chief John P. Williamson, Battalion 6
Captain Daniel J. Brethel, Ladder Co. 24
Captain Patrick J. Brown, Ladder Co. 3
Captain Vincent E. Brunton, Ladder Co. 105
Captain William F. Burke, Jr., Engine Co. 21
Captain Frank J. Callahan, Ladder Co. 35
Captain Martin J. Egan, Jr., Ladder Co. 118
Captain Michael A. Esposito, Squad Co. 1
Captain John R. Fischer, Ladder Co. 20
Captain Vincent F. Giammona, Ladder Co. 5
Captain Terence S. Hatton, Rescue Co. 1
Captain Walter G. Hynes, Ladder Co. 13
Captain Frederick J. Illi, Jr., Ladder Co. 2
Captain William E. McGinn, Squad Co. 18
Captain Thomas C. Moody, Engine Co. 310
Captain Daniel O'Callaghan, Ladder Co. 4
Captain William S. O'Keefe, Engine Co. 154
Captain Vernon A. Richard, Ladder Co. 7
Captain Timothy M. Stackpole, Ladder Co. 103
Captain Patrick J. Waters, Haz-Mat Co. 1
Captain David T. Wooley, Ladder Co. 4
Lieutenant Joseph Agnello, Ladder Co. 118
Lieutenant Brian G. Ahearn, Engine Co. 230
Lieutenant Gregg Atlas, Engine Co. 10

Lieutenant Steven J. Bates, Engine Co. 235
Lieutenant Carl J. Bedigian, Engine Co. 214
Lieutenant John A. Crisci, Haz-Mat Co. 1
Lieutenant Edward A. D'Atri, Squad Co. 1
Lieutenant Manuel Del Valle, Jr., Engine Co. 5
Lieutenant Andrew J. Desperito, Engine Co. 3
Lieutenant Kevin W. Donnelly, Ladder Co. 1
Lieutenant Kevin C. Dowdell, Rescue Co. 4
Lieutenant Michael N. Fodor, Ladder Co. 21
Lieutenant David J. Fontana, Squad Co. 1
Lieutenant Andrew A. Fredericks, Squad Co. 18
Lieutenant Peter L. Freund, Engine Co. 55
Lieutenant Charles W. Garbarini, Ladder Co. 61
Lieutenant Ronnie E. Gies, Squad Co. 288
Lieutenant John F. Ginley, Engine Co. 40
Lieutenant Geoffrey E. Guja, Engine Co. 82
Lieutenant Joseph P. Gullickson, Ladder Co. 101
Lieutenant David Halderman, Squad Co. 18
Lieutenant Vincent G. Halloran, Ladder Co. 8
Lieutenant Harvey L. Harrell, Rescue Co. 5
Lieutenant Stephen G. Harrell, Ladder Co. 157
Lieutenant Michael K. Healey, Squad Co. 41
Lieutenant Timothy B. Higgins, Squad Co. 252
Lieutenant Anthony M. Jovic, Ladder Co. 34
Lieutenant Thomas R. Kelly, Ladder Co. 105
Lieutenant Ronald T. Kerwin, Squad Co. 288
Lieutenant Joseph G. Leavey, Ladder Co. 15
Lieutenant Michael F. Lynch, Ladder Co. 4
Lieutenant Patrick J. Lyons, Squad Co. 252
Lieutenant Charles J. Margotta, Ladder Co. 85
Lieutenant Peter C. Martin, Rescue Co. 2
Lieutenant Paul R. Martini, Engine Co. 201
Lieutenant Paul T. Mitchell, Ladder Co. 110
Lieutenant Dennis Mojica, Rescue Co. 1
Lieutenant Raymond E. Murphy, Ladder Co. 16
Lieutenant Robert B. Nagel, Engine Co. 58
Lieutenant John P. Napolitano, Rescue Co. 2
Lieutenant Thomas G. O'Hagan, Engine Co. 52
Lieutenant Glenn C. Perry, Ladder Co. 34
Lieutenant Philip S. Petti, Ladder Co. 148
Lieutenant Kevin J. Pfeifer, Engine Co. 33
Lieutenant Kenneth J. Phelan, Engine Co. 217
Lieutenant Michael T. Quilty, Ladder Co. 11
Lieutenant Robert M. Regan, Ladder Co. 118
Lieutenant Michael T. Russo, Squad Co. 1
Lieutenant Christopher P. Sullivan, Ladder Co. 111
Lieutenant Robert F. Wallace, Engine Co. 205
Lieutenant Jeffrey P. Walz, Ladder Co. 9
Lieutenant Michael P. Warchola, Ladder Co. 5
Lieutenant Glenn E. Wilkinson, Engine Co. 238
Fire Marshal Ronald P. Bucca, Manhattan Base
Fire Marshal Andre G. Fletcher, Rescue Co. 5
Fire Marshal Vincent D. Kane, Engine Co. 22
Fire Marshal Kenneth B. Kumpel, Ladder Co. 25
Fire Marshal Paul J. Pansini, Engine Co. 10
Firefighter Eric T. Allen, Squad Co. 18
Firefighter Richard D. Allen, Ladder Co. 15
Firefighter Calixto Anaya, Jr., Engine Co. 4
Firefighter Joseph J. Angelini, Sr., Rescue Co. 1
Firefighter Joseph J. Angelini, Jr., Ladder Co. 4

Firefighter Faustino Apostol, Jr., Battalion 2
Firefighter David G. Arce, Engine Co. 33
Firefighter Louis Arena, Ladder Co. 5
Firefighter Carl F. Asaro, Battalion 9
Firefighter Gerald T. Atwood, Ladder Co. 21
Firefighter Gerard Baptiste, Ladder Co. 9
Firefighter Matthew E. Barnes, Ladder Co. 25
Firefighter Arthur T. Barry, Ladder Co. 15
Firefighter Stephen E. Belson, Ladder Co. 24
Firefighter John P. Bergin, Rescue Co. 5
Firefighter Andrew A. Beyer, Engine Co. 6
Firefighter Peter A. Bielfeld, Ladder Co. 42
Firefighter Brian E. Blicher, Engine Co. 33
Firefighter Carl V. Bini, Rescue Co. 5
Firefighter Christopher J. Blackwell, Rescue Co. 3
Firefighter Michael L. Bocchino, Battalion 48
Firefighter Frank J. Bonomo, Engine Co. 230
Firefighter Gary R. Box, Squad Co. 1
Firefighter Michael Boyle, Engine Co. 33
Firefighter Kevin H. Bracken, Engine Co. 40
Firefighter Michael E. Brennan, Ladder Co. 4
Firefighter Peter Brennan, Squad Co. 288
Firefighter Andrew C. Brunn, Ladder Co. 5
Firefighter Gregory J. Buck, Engine Co. 201
Firefighter John P. Burnside, Ladder Co. 20
Firefighter Thomas M. Butler, Squad Co. 1
Firefighter Patrick D. Byrne, Ladder Co. 101
Firefighter George C. Cain, Ladder Co. 7
Firefighter Salvatore B. Calabro, Ladder Co. 101
Firefighter Michael F. Cammarata, Ladder Co. 11
Firefighter Brian Cannizzaro, Ladder Co. 101
Firefighter Dennis M. Carey, Haz-Mat Co. 1
Firefighter Michael S. Carlo, Engine Co. 230
Firefighter Michael T. Carroll, Ladder Co. 3
Firefighter Peter J. Carroll, Squad Co. 1
Firefighter Thomas A. Casoria, Engine Co. 22
Firefighter Michael J. Cawley, Ladder Co. 136
Firefighter Vernon P. Cherry, Ladder Co. 118
Firefighter Nicholas P. Chiofalo, Engine Co. 235
Firefighter John G. Chipura, Engine Co. 219
Firefighter Michael J. Clarke, Ladder Co. 2
Firefighter Steven Coakley, Engine Co. 217
Firefighter Michael T. Coleman, Squad Co. 252
Firefighter John M. Collins, Ladder Co. 25
Firefighter Robert J. Cordice, Engine Co. 152
Firefighter Ruben D. Correa, Engine Co. 74
Firefighter James R. Coyle, Ladder Co. 3
Firefighter Robert J. Crawford, Safety Battalion 1
Firefighter Thomas P. Cullen, III, Squad Co. 41
Firefighter Robert Curatolo, Ladder Co. 16
Firefighter Michael D. D'Auria, Engine Co. 40
Firefighter Scott M. Davidson, Ladder Co. 118
Firefighter Edward J. Day, Ladder Co. 11
Firefighter Martin N. DeMeo, Haz-Mat Co. 1
Firefighter David P. DeRubbio, Engine Co. 226
Firefighter Gerard P. Dewan, Ladder Co. 3
Firefighter George DiPasquale, Ladder Co. 2
Firefighter Gerard J. Duffy, Ladder Co. 21
Firefighter Joseph J. Eiferis, Engine Co. 22
Firefighter Francis Esposito, Engine Co. 235

Firefighter Robert E. Evans, Engine Co. 33
Firefighter Terrence P. Farrell, Rescue Co. 4
Firefighter Lee S. Fehling, Engine Co. 235
Firefighter Alan D. Feinberg, Battalion 9
Firefighter Michael C. Fiore, Rescue Co. 5
Firefighter John J. Florio, Engine Co. 214
Firefighter Thomas J. Foley, Engine Co. 3
Firefighter Robert J. Foti, Ladder Co. 7
Firefighter Thomas Gambino, Jr., Rescue Co. 3
Firefighter Thomas A. Gardner, Haz-Mat Co. 1
Firefighter Matthew D. Garvey, Squad Co. 1
Firefighter Bruce H. Gary, Engine Co. 40
Firefighter Gary P. Geidel, Rescue Co. 1
Firefighter Denis P. Germain, Ladder Co. 2
Firefighter James A. Gibson, Ladder Co. 35
Firefighter Paul J. Gill, Engine Co. 54
Firefighter Jeffrey J. Giordano, Ladder Co. 3
Firefighter John J. Giordano, Engine Co. 37
Firefighter Keith A. Glasco, Ladder Co. 21
Firefighter James M. Gray, Ladder Co. 20
Firefighter Jose A. Guadalupe, Engine Co. 54
Firefighter Robert W. Hamilton, Squad Co. 41
Firefighter Sean S. Hanley, Ladder Co. 20
Firefighter Thomas P. Hannafin, Ladder Co. 5
Firefighter Dana R. Hannon, Engine Co. 26
Firefighter Daniel E. Harlin, Ladder Co. 2
Firefighter Timothy S. Haskell, Squad Co. 18
Firefighter Michael H. Haub, Ladder Co. 4
Firefighter John F. Heffernan, Ladder Co. 11
Firefighter Ronnie L. Henderson, Engine Co. 279
Firefighter Brian Cannizzaro, Ladder Co. 21
Firefighter William L. Henry, Rescue Co. 1
Firefighter Thomas J. Hetzel, Ladder Co. 13
Firefighter Jonathan R. Hohmann, Haz-Mat Co. 1
Firefighter Thomas P. Holohan, Engine Co. 6
Firefighter Joseph G. Hunter, Squad Co. 288
Firefighter Jonathan L. Ielpi, Squad Co. 288
Firefighter William R. Johnston, Engine Co. 6
Firefighter Andrew B. Jordan, Ladder Co. 132
Firefighter Karl H. Joseph, Engine Co. 207
Firefighter Angel L. Juarbe, Jr., Ladder Co. 12
Firefighter Paul H. Keating, Ladder Co. 5
Firefighter Richard J. Kelly, Jr., Ladder Co. 11
Firefighter Thomas W. Kelly, Ladder Co. 15
Firefighter Thomas J. Kennedy, Ladder Co. 101
Firefighter Michael V. Kiefer, Ladder Co. 132
Firefighter Robert C. King, Jr., Engine Co. 33
Firefighter Scott M. Kopytko, Ladder Co. 15
Firefighter William E. Krukowski, Ladder Co. 21
Firefighter Thomas J. Kuevickis, Squad Co. 252
Firefighter David J. LaForge, Ladder Co. 20
Firefighter William D. Lake, Rescue Co. 2
Firefighter Robert T. Lane, Engine Co. 55
Firefighter Peter J. Langone, Squad Co. 252
Firefighter Scott A. Larsen, Ladder Co. 15
Firefighter Neil J. Leavy, Engine Co. 217
Firefighter Daniel F. Libretti, Rescue Co. 2
Firefighter Robert T. Linnane, Ladder Co. 20
Firefighter Michael F. Lynch, Engine Co. 40
Firefighter Michael J. Lyons, Squad Co. 41

Firefighter Joseph Maffeo, Ladder Co. 101
Firefighter William J. Mahoney, Rescue Co. 4
Firefighter Joseph E. Maloney, Ladder Co. 3
Firefighter Kenneth J. Marino, Rescue Co. 1
Firefighter John D. Marshall, Engine Co. 23
Firefighter Joseph A. Mascali, Rescue Co. 5
Firefighter Keithroy M. Maynard, Engine Co. 33
Firefighter Brian G. McAleese, Engine Co. 226
Firefighter John K. McAvoy, Ladder Co. 3
Firefighter Thomas J. McCann, Engine Co. 65
Firefighter Dennis P. McHugh, Ladder Co. 13
Firefighter Robert D. McMahon, Ladder Co. 20
Firefighter Robert W. McPadden, Engine Co. 23
Firefighter Terence A. McShane, Ladder Co. 101
Firefighter Timothy P. McSweeney, Ladder Co. 1
Firefighter Martin E. McWilliams, Engine Co. 22
Firefighter Raymond M. Meisenheimer, Rescue Co. 3
Firefighter Charles R. Mendez, Ladder Co. 7
Firefighter Steve J. Mercado, Ladder Co. 40
Firefighter Douglas C. Miller, Rescue Co. 5
Firefighter Henry A. Miller, Jr., Ladder Co. 105
Firefighter Robert J. Minara, Ladder Co. 25
Firefighter Thomas Mingsione, Ladder Co. 132
Firefighter Manuel Mojica, Squad Co. 18
Firefighter Carl E. Molinaro, Ladder Co. 2
Firefighter Michael G. Montesi, Rescue Co. 1
Firefighter Vincent S. Morello, Ladder Co. 35
Firefighter Christopher M. Mozzillo, Engine Co. 55
Firefighter Richard T. Muldowney, Jr., Ladder Co. 7
Firefighter Michael D. Mullan, Ladder Co. 12
Firefighter Joseph P. Henry, Ladder Co. 21
Firefighter Peter A. Nelson, Rescue Co. 4
Firefighter Gerard T. Nevins, Rescue Co. 1
Firefighter Dennis P. O'Berg, Ladder Co. 105
Firefighter Douglas E. Oelschlagler, Ladder Co. 7
Firefighter Joseph J. Ogren, Ladder Co. 3
Firefighter Samuel P. Olice, Ladder Co. 4
Firefighter Patrick J. O'Keefe, Rescue Co. 1
Firefighter Eric T. Olsen, Ladder Co. 15
Firefighter Jeffrey J. Olsen, Engine Co. 10
Firefighter Steven J. Olson, Ladder Co. 3
Firefighter Kevin M. O'Rourke, Rescue Co. 2
Firefighter Michael J. Otten, Ladder Co. 35
Firefighter Jeffrey A. Palazzo, Rescue Co. 5
Firefighter Frank Palombo, Ladder Co. 105
Firefighter James N. Pappageorge, Engine Co. 23
Firefighter Robert E. Parro, Engine Co. 8
Firefighter Durrell V. Pearsall, Rescue Co. 4
Firefighter Christopher J. Pickford, Engine Co. 201
Firefighter Shawn E. Powell, Engine Co. 207
Firefighter Vincent A. Princiotta, Ladder Co. 7
Firefighter Kevin M. Prior, Squad Co. 252
Firefighter Lincoln Quappe, Rescue Co. 2
Firefighter Leonard J. Ragaglia, Engine Co. 54
Firefighter Michael P. Ragusa, Engine Co. 279
Firefighter Edward J. Rall, Rescue Co. 2
Firefighter Adam D. Rand, Squad Co. 288
Firefighter Donald J. Regan, Rescue Co. 3
Firefighter Christian Reegenhard, Ladder Co. 131
Firefighter Kevin O. Reilly, Engine Co. 207

Firefighter James C. Riches, Engine Co. 4
Firefighter Joseph R. Rivelli, Jr., Ladder Co. 25
Firefighter Michael E. Roberts, Engine Co. 214
Firefighter Michael E. Roberts, Ladder Co. 35
Firefighter Anthony Rodriguez, Engine Co. 279
Firefighter Matthew S. Rogan, Ladder Co. 11
Firefighter Nicholas P. Rossomando, Rescue Co. 5
Firefighter Paul G. Ruback, Ladder Co. 25
Firefighter Stephen Russell, Engine Co. 55
Firefighter Thomas E. Sabella, Ladder Co. 13
Firefighter Christopher A. Santora, Engine Co. 54
Firefighter John A. Santore, Ladder Co. 5
Firefighter Gregory T. Saucedo, Ladder Co. 5
Firefighter Dennis Scaudo, Haz-Mat Co. 1
Firefighter John A. Scharf, Engine Co. 201
Firefighter Thomas G. Schoales, Engine Co. 4
Firefighter Gerard P. Schrang, Rescue Co. 3
Firefighter Gregory R. Sikorsky, Squad Co. 41
Firefighter Stephen G. Siller, Squad Co. 1
Firefighter Stanley S. Smagala, Jr., Engine Co. 226
Firefighter Kevin J. Smith, Haz-Mat Co. 1
Firefighter Leon Smith, Jr., Ladder Co. 118
Firefighter Robert W. Spear, Jr., Engine Co. 26
Firefighter Joseph P. Spor, Rescue Co. 3
Firefighter Gregory M. Stajk, Ladder Co. 13
Firefighter Jeffrey Stark, Engine Co. 230
Firefighter Benjamin Suarez, Ladder Co. 21
Firefighter Daniel T. Suhr, Engine Co. 216
Firefighter Brian E. Sweeney, Rescue Co. 1
Firefighter Sean P. Tallon, Ladder Co. 10
Firefighter Allan Tarasiewicz, Rescue Co. 5
Firefighter Paul A. Tegtmeier, Engine Co. 4
Firefighter John P. Tierney, Ladder Co. 9
Firefighter John J. Tipping, II, Ladder Co. 4
Firefighter Hector L. Tirado, Jr., Engine Co. 23
Firefighter Richard B. Van Hine, Squad Co. 41
Firefighter Peter A. Vega, Ladder Co. 118
Firefighter Lawrence G. Veling, Engine Co. 235
Firefighter John T. Vigniano, II, Ladder Co. 132
Firefighter Sergio G. Villanueva, Ladder Co. 132
Firefighter Lawrence J. Virgilio, Squad Co. 18
Firefighter Kenneth T. Watson, Engine Co. 214
Firefighter Michael T. Weinberg, Engine Co. 1
Firefighter David M. Weiss, Rescue Co. 1
Firefighter Timothy M. Welty, Squad Co. 288
Firefighter Eugene M. Whelan, Engine Co. 230
Firefighter Edward J. White, Engine Co. 230
Firefighter Mark P. Whitford, Engine Co. 23
Firefighter Raymond R. York, Engine Co. 285
EMS Lieutenant Ricardo J. Quinn, EMS Battalion 57
Paramedic Carlos R. Lillo, EMS Battalion 49



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