UNITED STATES DISTRICT COURT DISTRICT OF MASSACHUSETTS EASTERN DISTRICT

JOSEPH MARCHETTI, WILLIAM BERNHARD, PAUL BERUBE, MICHAEL CARR, MICHAEL CLARK, PAUL COTTER, DAVID FORD, KEVIN HARTIGAN, ONSLOW JAMES, STEPHEN LYDON, MICHAEL O'REAGAN, ROBERT PASTOR, DANIEL RANAHAN, MARK WHALEN, STEPHEN WILDER AND JESSICA RANAHAN

Plaintiffs,

vs.

3M COMPANY; AGC CHEMICALS AMERICAS, INC.; AMEREX CORPORATION; ARCHROMA U.S., INC., ARKEMA, INC.; BUCKEYE FIRE EQUIPMENT; CARRIER GLOBAL CORPORATION; CHEMGUARD, INC.; DYNAX CORPORATION; E. I. DU PONT DE NEMOURS & CO.; FIRE-DEX, LLC; FIRE SERVICE PLUS, INC.; GLOBE MANUFACTURING COMPANY LLC; HONEYWELL SAFETY PRODUCTS USA, INC.; JOHNSON CONTROLS, INC.; LION GROUP, INC.: MINE SAFETY APPLIANCE COMPANY LLC; NATIONAL FOAM, INC.; PBI PERFORMANCE PRODUCTS. INC., PERIMETER SOLUTIONS, LP; STEDFAST **USA. INC.: TENCATE PROTECTIVE** FABRICS USA D/B/A SOUTHERN MILLS INC.; THE CHEMOURS COMPANY L.L.C.; TYCO FIRE PRODUCTS, L.P.; W. L. GORE & ASSOCIATES, INC.,

Defendants,

Civil Action No:

COMPLAINT FOR DAMAGES AND INJUNCTIVE RELIEF

DEMAND FOR JURY TRIAL

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Plaintiffs William Bernhard, Paul Berube, Michael Carr, Michael Clark, Paul Cotter, David Ford, Kevin Hartigan, Onslow James, Stephen Lydon, Joseph Marchetti, Michael O'Reagan, Robert Pastor, Daniel Ranahan, Mark Whalen, Stephen Wilder, and Jessica Ranahan by and through their attorneys of record, allege as follows:

INTRODUCTION

1. Plaintiffs are 15 current and retired firefighters who have served the cities of Worcester, Norwood, Brockton, Fall River and Boston, Massachusetts as firefighters and worked in various fire stations, engine, truck, and specialized companies in those communities for decades (collectively, the "Firefighter Plaintiffs") and one spouse ("Spouse Plaintiff").

2. Plaintiffs bring this action for monetary damages and appropriate equitable and injunctive relief for harm resulting from exposure to per- and polyfluoroalkyl substances ("PFAS") that were manufactured, designed, sold, supplied, distributed and/or contained in products manufactured, designed, sold, supplied and/or distributed by each of the Defendants, individually or through their predecessors or subsidiaries

3. PFAS are human-made chemicals consisting of a chain of carbon and fluorine atoms used in manufactured products to, *inter alia*, resist and repel oil, stains, heat and water. PFAS include "long-chain" PFAS made up of seven or more carbon atoms ("long-chain PFAS") as well as "short-chain" PFAS made up of six or fewer carbon atoms ("short-chain PFAS").

4. PFAS are known as "forever chemicals" because they are immune to degradation, bio-accumulate in individual organisms and humans, and increase in concentration up the food chain. PFAS exposure to humans can occur through inhalation, ingestion and dermal contact.¹

5. PFAS have been associated with multiple and serious adverse health effects in humans including cancer, tumors, liver damage, immune system and endocrine disorders, high cholesterol, thyroid disease, ulcerative colitis, birth defects, decreased fertility, and pregnancyinduced hypertension. PFAS have also been found to concentrate in human blood, bones and

¹ Suzanne E. Fenton, MS, PhD, *PFAS Collection*, Environmental Health Perspectives (February 22, 2019), <u>https://ehp.niehs.nih.gov/curated-collections/pfas</u>.

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organs and, most recently, to reduce the effectiveness of vaccines, a significant concern in light of COVID-19.

6. Unbeknownst to Plaintiffs, Defendants have manufactured, marketed, distributed, sold, or used PFAS and PFAS-containing materials in protective clothing specifically designed for firefighters ("turnouts") and in Class B firefighting foams ("Class B foam").²

7. For decades, Defendants were aware of the toxic nature of PFAS and the harmful impact these substances have on human health. Yet, Defendants manufactured, designed, marketed, sold, supplied, or distributed PFAS and PFAS chemical feedstock,³ as well PFAS-containing turnouts and Class B foam, to firefighting training facilities and fire departments nationally, including in Massachusetts and in the Worcester, Norwood, Brockton, Fall River and Boston fire departments. Defendants did so, moreover, without ever informing firefighters or the public that turnouts and Class B foams contained PFAS, and without warning firefighters or the public of the substantial and serious health injuries that can result from exposure to PFAS or PFAS-containing materials.

8. The Firefighter Plaintiffs wore turnouts and used and/or were exposed to Class B foam in the usual and normal course of performing their firefighting duties and training and were repeatedly exposed to PFAS in their workplace. They did not know and, in the exercise of reasonable diligence, could not have known that these products contained PFAS or PFAS-containing materials. They also did not know that PFAS was in their bodies and blood.

9. At all relevant times and continuing to the present, Defendants have represented that their turnouts and Class B foams are safe.

10. The Firefighter Plaintiffs did not learn of their PFAS exposure until December

² Class B foams are synthetic "soap-like" foams that spread rapidly across the surface of a fuel or chemical fire to stop the formation of flammable vapors. The most common Class B foam is aqueous film-forming foam (or "AFFF").

³ Chemical feedstock refers to a chemical used to support a large-scale chemical reaction. The PFAS chemicals utilized to manufacture products containing PFAS are generally referred to herein as "chemical feedstock."

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2021, at the earliest, when blood serum tests revealed that they had significantly elevated levels of PFAS in their blood.

11. The Firefighter Plaintiffs used the turnouts and Class B foam as they were intended and in a foreseeable manner which exposed them to PFAS in the course of their firefighting activities. This repeated and extensive exposure to PFAS resulted in cancers and other serious and life-threatening diseases to the Firefighter Plaintiffs. Their PFAS exposures continue to pose a significant threat to their personal health due to PFAS' persistence, pervasiveness, toxicity and bioaccumulation.

12. Defendants knowingly and willfully manufactured, designed, marketed, sold, and distributed chemicals and/or products containing PFAS for use within the State of Massachusetts when they knew or reasonably should have known that the Firefighter Plaintiffs would repeatedly inhale, ingest and/or have dermal contact with these harmful compounds during firefighting training exercises and in firefighting emergencies, and that such exposure would threaten the health and welfare of firefighters exposed to these dangerous and hazardous chemicals.

13. Plaintiffs bring this action against Defendants and seek damages, together with any appropriate injunctive or other equitable relief.

PARTIES TO THE ACTION

A. <u>The Firefighter Plaintiffs</u>

14. Joseph Marchetti has been a firefighter for 24 years for the Brockton Fire Department and was promoted through the ranks to his current position as Deputy Chief. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. One of his most memorable calls was when he and his crew rescued two teenage sisters with severe, lower extremity injuries, trapped in a motor vehicle accident. Both girls survived and are able to walk today. In the course of firefighting training and fire suppression activities, Joseph routinely wore turnouts and has used and/or been exposed to Class B foam.

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Blood serum testing results received in December 2021 show his PFAS levels are significantly elevated. Joseph has been diagnosed with and treated for prostate cancer.

15. William Bernhard was in the fire service for 29 years in the Worcester Fire Department. William's firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. One of his most gratifying experiences was working as a team leader for Critical Incident Stress Management program. In the course of firefighting training and fire suppression activities, William routinely wore turnouts and has used and/or been exposed to Class B foam. Blood serum testing results received in December of 2021 show his PFAS levels are significantly elevated. William has been diagnosed with and treated for prostate cancer.

16. Paul Berube was in the fire service for 36 years in the Worcester Fire Department, following in his father's and uncle's footsteps into the fire service. He worked as a firefighter, lieutenant, and fire captain. Paul's firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. One of his most memorable experiences was working with researchers at Worcester Polytechnic Institute to test a GPS tracker during a fire. In the course of firefighting training and fire suppression activities, Paul routinely wore turnouts and has used and/or been exposed to Class B foam. Blood serum testing results received in December of 2021 show his PFAS levels are significantly elevated. He has been diagnosed with and treated for prostate cancer.

17. Michael Carr also followed his father into fire service, and served for 32 years as a firefighter in the Norwood Fire Department. Michael's firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. Michael delivered three babies during his career. One of his most memorable moments was rescuing a woman from a two-story house fire at night. In the course of firefighting training and fire

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suppression activities, Michael routinely wore turnouts and has used and/or been exposed to Class B foam. Blood serum testing results received in December of 2021 show his PFAS levels are significantly elevated. He has been diagnosed with and treated for prostate cancer.

18. Michael Clark was in the fire service for 34 years in the Worcester Fire Department as a firefighter and lieutenant. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. Michael's most memorable experience occurred when he and his crew rescued five people from a burning triple decker and all survived. In the course of firefighting training and fire suppression activities, he routinely wore turnouts and has used and/or been exposed to Class B foam. Michael has been diagnosed with and treated for prostate cancer.

19. Paul Cotter was in the fire service for 27 years in the Worcester Fire Department. He worked as a firefighter and was promoted to lieutenant, spending many years with Rescue 1. Paul's firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. One of his most memorable experiences was the rescue of a man from a three-decker fire. In the course of firefighting training and fire suppression activities, Paul routinely wore turnouts and has used and/or been exposed to Class B foam. Blood serum testing results received in December 2021 show his PFAS levels are significantly elevated. He was diagnosed with and treated for prostate cancer.

20. David Ford was in the fire service for 34 years in the Worcester Fire Department as a firefighter and fire lieutenant. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. David's most memorable experience was his volunteer work with Worcester Firefighters Ramp Gang. The group built over 200 ramps for disabled people living in Worcester. In the course of firefighting training and fire suppression activities, David routinely wore turnouts and has used and/or been exposed to Class

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B foam. Blood serum testing conducted results received in December 2021 show his PFAS levels are significantly elevated. David has been diagnosed with and treated for prostate cancer.

21. Kevin Hartigan was in the fire service for 37 years, serving 25 years in the Worcester Fire Department as a firefighter. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. Kevin delivered one baby during the course of his career. One of his most memorable moments occurred when he and his crew saved a toddler who was choking and not breathing. In the course of firefighting training and fire suppression activities, Kevin routinely wore turnouts and has used and/or been exposed to Class B foam. Kevin has been diagnosed with prostate cancer.

22. Onslow James was in the fire service for 31 years in the Worcester Fire Department as a firefighter. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. Onslow's most memorable experience was a rescue of a man in an industrial accident who later became a friend. In the course of firefighting training and fire suppression activities, Onslow routinely wore turnouts and has used and/or been exposed to Class B foam. Onslow has been diagnosed with and treated for prostate cancer.

23. Stephen Lydon was in the fire service working as a firefighter for 38 years in Norwood Fire Department. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. One of Stephen's most gratifying experiences was the resuscitation of a man using a newly-acquired defibrillator. In the course of firefighting training and fire suppression activities, Stephen routinely wore turnouts and has used and/or been exposed to Class B foam. Blood serum testing results received in December 2021 show his PFAS levels are significantly elevated. Stephen has been diagnosed with and treated for malignant melanoma and prostate cancer.

24. Michael O'Reagan has worked as an active-duty firefighter and on medical rescue

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for over 28 years in the Fall River Fire Department, following, along with his brother, in the footsteps of his firefighter father. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. Michael has delivered six babies. One of his most memorable moments was a call for a motor vehicle accident in which Michael stabilized a severely injured young man while the rescue team worked to extricate him from the vehicle. The young man survived. In the course of firefighting training and fire suppression activities, Michael routinely wears turnouts and uses and/or is exposed to Class B foam. Blood serum testing results received in December 2021 show his PFAS levels are significantly elevated. Michael has been diagnosed with and treated for non-Hodgkin's lymphoma cancer.

25. Robert Pastor was in the fire service for 32 years in the Worcester Fire Department, following his grandfather, father, and brother into fire service. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. One of Robert's most memorable experiences was the rescue of a man from a fire in an apartment building. In the course of firefighting training and fire suppression activities, Robert routinely wore turnouts and has used and/or been exposed to Class B foam. Blood serum testing results received in December 2021 show his PFAS levels are significantly elevated. He has been diagnosed with and treated for prostate cancer.

26. Daniel Ranahan is an active-duty firefighter for the Boston Fire Department, where he has served the community for 7 years. Following in the footsteps of his firefighter father and brother, Daniel works at the Dudley Street station. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. Daniel's proudest accomplishment has been establishing the Boston Local 718 Firefighter and Family Cancer Foundation to provide emotional and financial support to firefighters diagnosed with

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occupational cancer. He started it shortly after learning of his own diagnosis and of other activeduty firefighters who had been diagnosed with cancer. In the course of firefighting training and fire suppression activities, routinely wears turnouts and has used and/or been exposed to Class B foam. Daniel has been diagnosed with and treated for Hodgkin's lymphoma cancer.

27. Mark Whalen was in the fire service for 32 years, serving in Worcester Fire Department as a firefighter. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. One of Mark's most significant experiences occurred when responding to a call from a frantic, young woman who was nine months pregnant. There was no time to transport her to the hospital so Mark safely delivered the baby in her home. In the course of firefighting training and fire suppression activities, Mark routinely wore turnouts and has used and/or been exposed to Class B foam. Blood serum testing results received in December 2021 show his PFAS levels are significantly elevated. Mark has been diagnosed with and treated for prostate cancer.

28. Stephen Wilder is an active-duty firefighter for the Worcester Fire Department, where he has served the community for 22 years. His firefighter training included building construction, fire appliances, pump operations, ladders, search and rescue, ventilation, utility control, salvage and overhaul, vehicle extrication, incident command, and basic first aid. Stephen has delivered two babies during his career. One of his most memorable moments was when he rescued a firefighter who had fallen three stories from a burning building into debris; the injured firefighter made a full recovery. In the course of firefighting training and fire suppression activities, Stephen routinely wore turnouts and has used and/or been exposed to Class B foam. Blood serum testing results received in December 2021 show his PFAS levels are significantly elevated. Stephen has been diagnosed with and treated for prostate cancer.

29. The Firefighter Plaintiffs, individually and collectively, allege that PFAS or PFAScontaining materials developed, manufactured, marketed distributed, released, sold, and/or used by Defendants in turnouts and Class B foam, as herein alleged, caused them to be exposed to PFAS

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and/or PFAS-containing materials. Such exposure was a substantial factor and proximate cause of the cancers, serious illnesses and bodily injuries suffered by the Firefighter Plaintiffs, as alleged herein.

B. <u>The Spouse Plaintiff</u>

30. Jessica Ranahan is the spouse of Firefighter Plaintiff Daniel Ranahan. Jessica and Daniel were lawfully married at all times relevant to this action, and are currently husband and wife.

C. <u>Defendants</u>

31. Defendant 3M Company (a/k/a Minnesota Mining and Manufacturing Company) ("3M") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. 3M has its principal place of business in St. Paul, Minnesota. 3M developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

32. Defendant AGC Chemicals Americas, Inc. ("AGC") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. AGC has its principal place of business in Exton, Pennsylvania. AGC developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

33. Defendant Amerex Corporation, also known as Alabama Amerex Corporation, ("Amerex") is an Alabama corporation that does business throughout the United States, including conducting business in Massachusetts. Amerex has its principal place of business in Trussville, Alabama. Amerex developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

34. Defendant Archroma U.S., Inc. ("Archroma") is a North Carolina corporation that does business throughout the United States, including conducting business in Massachusetts.

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Archroma has its principal place of business in Charlotte, North Carolina. Archroma developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

35. Defendant Arkema, Inc. ("Arkema") is a Pennsylvania corporation that does business throughout the United States, including conducting business in Massachusetts. Arkema has its principal place of business in King of Prussia, Pennsylvania. Arkema developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

36. Defendant Buckeye Fire Equipment ("Buckeye") is a North Carolina corporation that does business throughout the United States, including conducting business in Massachusetts. Buckeye has its principal place of business in Kings Mountain, North Carolina. Buckeye developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

37. Defendant Carrier Global Corporation ("Carrier") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. Carrier has its principal place of business in Palm Beach Gardens, Florida. Carrier developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

38. Defendant Chemguard, Inc. ("Chemguard") is a Wisconsin corporation that does business throughout the United States, including conducting business in Massachusetts. Chemguard has its principal place of business in Marinette, Wisconsin. Chemguard developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

39. Defendant Dynax Corporation ("Dynax") is a New York corporation that does business throughout the United States, including conducting business in Massachusetts. Dynax has its principal place of business in Pound Ridge, New York. Dynax developed, manufactured,

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marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

40. Defendant E. I. du Pont de Nemours & Co. ("DuPont") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. DuPont has its principal place of business in Wilmington, Delaware. DuPont developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

41. Defendant Fire-Dex, LLC ("Fire-Dex") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. Fire-Dex has its principal place of business in Medina, Ohio. Fire-Dex developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

42. Defendant Fire Service Plus, Inc. ("Fire Service Plus") is a Georgia corporation that does business throughout the United States, including conducting business in Massachusetts. Fire Service Plus has its principal place of business in Simi Valley, California. Fire Service Plus developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

43. Defendant Globe Manufacturing Company, LLC ("Globe") is a New Hampshire corporation that does business throughout the United States, including conducting business in Massachusetts. Globe has its principal place of business in Pittsfield, New Hampshire. Globe developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts. Defendant Mine Safety Appliance Company acquired Globe Holding Company, LLC and its subsidiaries (collectively, "MSA/Globe") in 2017 and continues to do business under the Globe name.

44. Defendant Honeywell Safety Products USA, Inc. ("Honeywell") is a Delaware

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corporation that does business throughout the United States, including conducting business in Massachusetts. Honeywell has its principal place of business in Charlotte, North Carolina. Honeywell developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

45. Defendant Johnson Controls, Inc. ("Johnson Controls") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. Johnson Controls has its principal place of business in Milwaukee, Wisconsin. Johnson Controls is the parent of Defendants Tyco Fire Products, LP and Chemguard, Inc. Johnson Controls developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

46. Defendant Lion Group, Inc., ("Lion") is an Ohio corporation that does business throughout the United States, including conducting business in Massachusetts. Lion has its principal place of business in Dayton, Ohio. Lion developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

47. Defendant Mine Safety Appliance Company, LLC ("MSA/Globe") is a Pennsylvania corporation that does business throughout the United States, including conducting business in Massachusetts. MSA has its principal place of business in Cranberry Township, Pennsylvania. MSA acquired Globe Holding Company, LLC and its subsidiaries (collectively, "MSA/Globe") in 2017 and continues to do business under the Globe name. MSA developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

48. Defendant National Foam, Inc., ("National Foam") is a Pennsylvania corporation that does business throughout the United States, including conducting business in Massachusetts. National Foam has its principal place of business in West Chester, Pennsylvania. National Foam

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developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

49. Defendant PBI Performance Products, Inc., ("PBI") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. PBI has its principal place of business in Charlotte, North Carolina. PBI developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

50. Defendant Perimeter Solutions, LP, ("Perimeter Solutions") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. Perimeter Solutions has a principal place of business in Rancho Cucamonga, California. Perimeter developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

51. Defendant StedFast USA, Inc. ("StedFast") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. StedFast has its principal place of business in Piney Flats, Tennessee. StedFast developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

52. Defendant TenCate Protective Fabrics USA d/b/a Southern Mills, Inc. ("Tencate") is a Georgia corporation that does business throughout the United States, including conducting business in Massachusetts. Tencate has its principal place of business in Senoia, Georgia. Tencate developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

53. Defendant The Chemours Company, L.L.C. ("Chemours") is a Delaware corporation that does business throughout the United States, including conducting business in

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Massachusetts. Chemours has its principal place of business in Wilmington, Delaware. Chemours developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

54. Defendant Tyco Fire Products, L.P. ("Tyco") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. Tyco has its principal place of business in Exeter, New Hampshire. Tyco developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

55. Defendant W. L. Gore & Associates, Inc., ("Gore") is a Delaware corporation that does business throughout the United States, including conducting business in Massachusetts. Gore has its principal place of business in Newark, Delaware. Gore developed, manufactured, marketed, distributed, released, sold, and/or used PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams, including in Massachusetts.

56. Plaintiffs allege that each named Defendant is in some manner responsible for the acts alleged herein and that they proximately caused the injuries to Plaintiffs, as alleged herein.

57. Plaintiffs allege that each named Defendant derived substantial revenue from the PFAS, PFAS materials, and products containing PFAS in turnouts and/or Class B foams that Defendants designed, developed, manufactured, tested, packaged, promoted, marketed, advertised, distributed, labeled and/or sold within Massachusetts, and that were used by Firefighter Plaintiffs herein within Massachusetts.

58. Defendants expected or should have expected their acts to have consequences within the State of Massachusetts, and derived substantial revenue from interstate commerce.

59. Defendants purposefully availed themselves of the privilege of conducting activities within the State of Massachusetts, thus invoking the benefits and protections of its laws.

JURISDICTION AND VENUE

60. This Court has jurisdiction over this action under 28 U.S.C. § 1332(a) and

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1332(c)(1) in that there is complete diversity among the parties and the amount in controversy exceeds \$75,000 exclusive of interest and costs.

61. Venue is proper in this Court pursuant to 28 U.S.C. § 1391 because the Firefighter Plaintiffs' exposure and Plaintiffs' injuries, resulting from the acts of Defendants alleged herein, occurred in the Commonwealth of Massachusetts.

SUBSTANTIVE ALLEGATIONS

A. The Firefighters Plaintiffs' Use of and Exposure to PFAS-Containing Products

62. The Firefighter Plaintiffs are 15 firefighters who have served the cities and towns of Worcester, Norwood, Brockton, Fall River and Boston as firefighters and worked in various fire stations, engine, truck, and specialized companies throughout the State of Massachusetts for decades.⁴

63. As first responders to fire, medical and other emergency calls, the Firefighter Plaintiffs risk their lives on a daily basis. They not only save lives and homes, they provide emergency services and medical care, perform rescues, and offer support to people in traumatic circumstances. To prepare them for this enormously challenging work, the Firefighter Plaintiffs wear turnouts and receive extensive and ongoing training in fire suppression (including the preparation, handling and use of firefighting foam), fire prevention, rescue, and emergency medical care techniques to protect and/or minimize the loss of life, property, and damage to the environment.

64. The Worcester Fire Department provides fire protection and emergency medical services to the city's 183,000 residents.

65. The Norwood Fire Department provides fire protection and emergency medical services to a community of 31,000 people.

⁴ One of the firefighter spouses, referred to herein as Spouse Plaintiff, independently asserts claims for loss of consortium as detailed more fully below at $\P\P$ 284-289.

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66. The Brockton Fire Department provides fire protection and emergency medical services to a city of nearly 100,000 residents.

67. The Fall River Fire Department provides fire protection and emergency medical services to a city of over 94,000.

68. The Boston Fire Department is the largest municipal fire department in New England, serving 685,000 people.

69. For decades, Defendants, either individually or through their predecessors or subsidiaries, have manufactured, designed, sold, supplied, and distributed chemical feedstock and/or turnouts and/or Class B foam containing PFAS to firefighting training facilities and fire departments globally, including within the State of Massachusetts and the cities and towns of Worcester, Norwood, Brockton, Fall River, Boston and their communities in Massachusetts.

70. With over 5,000 individual chemicals, PFAS is a large and ever-growing category of human-made chemicals, consisting of a nearly indestructible chain of carbon and fluorine atoms that are widely used in products to, *inter alia*, resist and repel oil, heat and water, and have been found to have negative health effects. As detailed below, these toxic chemicals are present in firefighter turnouts and Class B foam.

(1) **PFAS-Containing Turnout Gear**

71. During firefighting training and when responding to fires and performing fire extinguishment, firefighters wear turnouts that are intended to provide a degree of thermal, chemical, and biological protection for a firefighter. Turnout gear components include individual components such as a helmet, hood, jacket, pants and suspenders, boots, and gloves. Each component of the jacket and pants are made of an outer layer, as well as several inner layers that include a moisture barrier and thermal liner which are meant to protect the firefighter from ambient heat.⁵

72. PFAS chemicals are used in turnout gear to impart heat, water, and stain resistance

⁵ What Materials Go Into Making Turnout Gear?, Globe MSA Safety Website, (last visited September 29, 2021), <u>https://globe.msasafety.com/selecting-your-gear/materials</u>.

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to the outer shell and moisture barrier of turnout gear.

73. A June 2020 study of turnout gear by researchers at the University of Notre Dame analyzed 30 new and used turnout jackets and pants originally marketed, distributed and sold in 2008, 2014, and 2017, by six turnout gear makers, including Defendants MSA/Globe, Lion and Honeywell and found high levels of PFAS in turnout gear worn, used, or handled by firefighters, including the Firefighter Plaintiffs.⁶

74. When exposed to heat, PFAS chemicals in the turnouts off-gas, break down, and degrade into highly mobile and toxic particles and dust,⁷ exposing firefighters to PFAS chemicals, particles and dust, including through skin contact/absorption, ingestion (e.g., hand-to-mouth contact) and/or inhalation.⁸ Further firefighter exposure to these highly mobile and toxic materials occurs through normal workplace activities, because particles or dust from their turnouts spread to fire vehicles and fire stations, as well as firefighters' personal vehicles and homes.⁹

75. Such workplace exposure to PFAS or PFAS-containing materials has been found to be toxic to humans. As far back as a July 31, 1980 internal memo, DuPont officials described measures that were needed to prevent workplace exposure to PFOA, which they knew could permeate all protective materials, and noted that PFOA's toxicity varied depending on the exposure pathway, acknowledging that ingestion was "slightly toxic," dermal contact was "slightly to moderately toxic" and inhalation was "highly toxic." ¹⁰ The memo concluded "continued exposure is not tolerable."¹¹

¹¹ *Id*. at pg. 175.

⁶ Graham Peaslee et al., *Another Pathway for Firefighter Exposure to Per- and Polyfluoroalkyl Substances: Firefighter Textiles*, Environmental Science & Technology Letters 2020, 7, 8, 594-599 (Ecotoxicology and Public Health) (June 23, 2020) (hereinafter, "the Notre Dame Turnout Study").

⁷ A.S. Young et al., *Per- and Polyfluoroalkyl Substances (PFAS) and Total Fluorine in Fire Station Dust*, J. Expo. Sci. Environ. Epidemiology (2021), <u>https://doi.org/10.1038/s41370-021-00288-7</u>.

⁸ Id.

⁹ Id.

¹⁰ Robert Bilott, *Exposure* (2019), pg. 174.

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76. As alleged herein, the Firefighter Plaintiffs wear and/or wore turnouts in the ordinary course of performing their duties, as the turnouts were intended to be used and in a foreseeable manner, which exposed them to significant levels of PFAS.

77. The Firefighter Plaintiffs did not know, and in the exercise of reasonable diligence could not have known, that the turnouts they wore or used in the course of performing their duties contained PFAS or PFAS-containing materials, and similarly did not know and could not have known that they routinely suffered exposure to PFAS or PFAS-containing materials in the turnouts they wore or used in performing their duties. The turnout gear worn or used by the Firefighter Plaintiffs did not and does not contain labeling information saying that the gear contains PFAS, and similarly did not and does not warn the Firefighter Plaintiffs of the health risks associated with exposure to PFAS.

78. Like fire departments across the country, many Plaintiffs only had one set of turnouts for years, and would wash their turnouts at home and/or in station machines along with their daily station wear uniforms.

(2) PFAS-Containing Class B Foam

79. Class B foam is one of the primary tools used by firefighters for suppression of fires and is particularly effective for extinguishing fires involving oil and/or chemicals common at transportation accidents, aircraft accidents, and chemical spills. Class B foam is also used in structural or other types of non-chemical fires when water cannot penetrate deeply enough to ensure that unseen fire is extinguished. The most common Class B foam is aqueous film-forming foam ("AFFF"). AFFF and other Class B foams contain PFAS.

80. To use Class B foam, a Class B foam concentrate must first be mixed with water.

81. Class B foam concentrate is typically sold in five-gallon containers that firefighters are responsible for storing on the fire engine and/or pouring into the foam bladder of fire engine. To mix the foam concentrate and water from a fire engine that is not pre-plumbed for foam, an eductor must be placed in the foam concentrate to draw up the concentrate and mix it with water to create a thick, foamy substance. Firefighters are responsible for this process of preparing the

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foam, applying the foam and for cleaning the equipment (hoses, nozzles, etc.) after use.

82. The process of preparing and applying Class B foam, applying the foam, and then cleaning the equipment after foam use causes exposure to PFAS through skin contact, inhalation, or ingestion (e.g., hand-to-mouth contact). The Class B foam containers used by the Firefighter Plaintiffs and their fire departments to mix and prepare the Class B foam for use did not say that the foam contains PFAS, and did not warn the Firefighter Plaintiffs of the serious health risks associated with exposure to PFAS.

83. Class B foam is used in fire extinguishment in a manner typical of routine methods of fire extinguishment—by being sprayed through a fire hose, appliance or nozzle.

84. The techniques used for "laying a blanket" of Class B foam in fire extinguishment include: banking the foam off a wall or vertical surface to agitate the foam before it covers the fire; or applying it to the ground surface where the fire is burning. In structure fires, it can also be necessary to spray the ceilings, walls and floors. Reapplication of foam is often necessary because the foam blanket will break down over a short time.



85. These techniques are used routinely in firefighting training as well as in real-world fire extinguishment, and result in firefighters being sprayed or entirely soaked with Class B foam, walking in and through Class B foam (which can reach thigh- or even waist-high), or kneeling in

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Class B foam during use – all as depicted in the exemplar photographs below. As a result, the techniques cause exposure to PFAS through skin contact, inhalation, or ingestion (e.g., hand-to-mouth contact).

86. As alleged herein, the Firefighter Plaintiffs used and/or were exposed to Class B foam in the ordinary course of performing their duties as it was intended to be used and in a foreseeable manner which exposed them to significant levels of PFAS.

87. The Firefighter Plaintiffs did not know, and in the exercise of reasonable diligence, could not have known that the Class B foam they used and/or were exposed to in the course of performing their duties contained PFAS or PFAS-containing materials, and similarly did not know and could not have known that they routinely suffered exposure to PFAS or PFAS-containing materials in the Class B foam they used and/or were exposed to in performing their duties.



88. These exposures to PFAS or PFAS-containing materials resulted in serious and lifethreatening diseases to the Firefighter Plaintiffs, and continue to pose a significant health threat to them given the bioaccumulation, pervasiveness and persistence of PFAS.



B. The Chemical Structure of PFAS Makes Them Harmful to Human Health

89. PFAS are known as "forever chemicals" because they are immune to degradation, bio-accumulate in individual organisms and humans, and increase in concentration up the food chain.¹² Indeed, scientists are unable to estimate an environmental half-life (i.e. the time it takes for 50% of the chemical to disappear) for PFAS.¹³ Additionally, some PFAS chemicals (known as "precursors") degrade into different long-chain PFAS chemicals.¹⁴

¹² Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS), National Institute of Environmental Health Sciences (last visited September 30, 2021), https://www.niehs.nih.gov/health/topics/agents/pfc/index.cfm.

 $^{^{13}}$ *Id*.

¹⁴ *Id.* at fn. 8; Monica Amarelo, *Study: Almost All Fluorine Detected in Fire Stations' Dust Is From Unknown "Forever Chemicals,"* Environmental Working Group (February 5, 2021), <u>https://www.ewg.org/release/study-almost-all-fire-stations-dust-unknown-forever-chemicals</u>.

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90. PFAS are nearly indestructible and are highly transportable.¹⁵ PFAS exposure to humans can occur through inhalation, ingestion, or dermal contact.¹⁶

91. PFAS chemicals include "older" long-chain PFAS like PFOA, PFOS, and PFNA that have seven or more carbon atoms, and "newer" short-chain PFAS, like PFBA, PFBS, PFHxA, and PFHxS. The PFAS chemical industry has repeatedly asserted that short-chain PFAS are safer and bio-degrade more easily than long-chain PFAS. However, short-chain PFAS are molecularly similar to long-chain PFAS, and recent scientific research conducted in 2020 shows that short-chain PFAS are in fact extremely persistent, highly mobile and transportable, almost impossible to remove from water, bio-accumulate in humans and the environment, and show similar toxicity as long-chain PFAS.¹⁷ Short-chain PFAS also have lower technical performance and may therefore be used at higher quantities cancelling out any supposed benefits of lower bioaccumulation potential.¹⁸

92. In October 2021, the U.S. Environmental Protection Agency ("EPA") updated its 2018 assessment of short-chain PFAS, also known as "GenX", finding that two of Defendant Chemours GenX chemicals are *more toxic* than PFOA - the highly toxic chemical these were

¹⁷ Cheryl Hogue, *Short-chain and long-chain PFAS show similar toxicity, US National Toxicology Program says*, Chemical and Engineering News, (August 24, 2019), https://cen.acs.org/environment/persistent-pollutants/Short-chain-long-chain-PFAS/97/i33;

¹⁵ *Toxicological Profile for Perfluoroalkyls, see* Relevance to Public Health, Agency for Toxic Substances & Disease Registry, (last visited October 19, 2021), https://www.atsdr.cdc.gov/toxprofiles/tp200.pdf.

¹⁶ Id. at pgs. 3-4; Ketura Persellin, *Study: PFAS Exposure Through Skin Causes Harm Similar to Ingestion*, Environmental Working Group (January 13, 2020).

David Andrews, *FDA Studies: 'Short-Chain' PFAS Chemicals More Toxic Than Previously Thought*, Environmental Working Group (March 9, 2020), <u>https://tinyurl.com/y3lbq7by</u>; Stephan Brendel et al., *Short-chain Perfluoroalkyl Acids: Environmental Concerns and A Regulatory Strategy Under REACH*, Environmental Sciences Europe, Vol. 30, 1 (2018), <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5834591/</u>; Tom Neltner, *The Elephant in the Room: Potential Biopersistence of Short-Chain PFAS*, Environmental Defense Fund, (February 20, 2019), <u>http://blogs.edf.org/health/2019/02/20/potential-biopersistence-short-chain-pfas/</u>.

¹⁸ Martin Scheringer et al., *Helsingør Statement on Poly- and Perfluorinated Alkyl Substances* (PFASs), Chemosphere (June 14, 2014), https://www.sciencedirect.com/science/article/pii/S004565351400678X.

intended to replace.19

93. To date, there is no safe, acceptable or "normal" level of PFAS in the human body. Further, the fact that PFOA, PFOS, PFHxS, PFHpA, and PFNA are often found together presents a substantial risk to human health. Defendants' assertions that their products are safe because they do not contain PFOA or PFOS, or because they contain short-chain PFAS is just another example of their efforts to deflect from the reality that there are thousands of PFAS – including precursor PFAS which degrade into PFOA and PFOS.²⁰

94. PFAS exposure affects nearly every system in the human body.²¹ It has been associated with multiple and serious adverse health effects in humans including, but not limited to, cancer, tumors, liver damage, immune system and endocrine disorders, thyroid disease, ulcerative colitis, birth defects, decreased fertility, pregnancy-induced hypertension, accelerated changes in gene expression, and increases in oxidative stress which can contribute to DNA changes, tumor promotion, and other health conditions.²² It has also been found to concentrate in human blood, bones and organs, and to reduce the effectiveness of certain vaccines, a significant

¹⁹ Cheryl Hogue, US EPA Deems Two GenX PFAS Chemicals More Toxic than PFOA, Chemical & Engineering News (October 28, 2021), <u>https://cen.acs.org/environment/persistent-pollutants/US-EPA-deems-two-GenX-PFAS-chemicals-more-toxic-than-PFOA/99/i40</u>.

²⁰ Technical Fact Sheet - Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA), United States Environmental Protection Agency, (Nov. 2017), <u>https://www.epa.gov/sites/production/files/2017-</u>

^{12/}documents/ffrrofactsheet contaminants pfos pfoa 11-20-17 508 0.pdf.

²¹ Kelly Lenox, *PFAS Senate Hearing, Birnbaum's Expert Scientific Testimony*, Environmental Factor, National Institute of Environmental Health Sciences (May 2019), https://factor.niehs.nih.gov/2019/5/feature/1-feature-pfas/index.htm.

²² A. Koskela et al., Perfluoroalkyl substances in human bone: concentrations in bones and effects bone cell differentiation. Scientific Reports. 2017). (July 28, on https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5533791/pdf/41598 2017 Article 7359.pdf; National Toxicology Program Technical Report on the Toxicology and Carcinogenesis Studies of Perfluorooctanoic Acid Administered in Feed to Sprague Dawley (Hsd: Sprague Dawley SD) Rats, National Toxicology Program, (May 2020), https://ntp.niehs.nih.gov/ntp/htdocs/lt rpts/tr598 508.pdf; Jaclyn Goodrich et al., Per- and Polvfluoroalkvl Substances. Epigenetic Age and DNA Methylation: A Cross-Sectional Study of Firefighters, Epigenomics (October 2021), https://pubmed.ncbi.nlm.nih.gov/34670402/.

concern in light of COVID-19.23

C. Defendants Knowingly Manufactured, Developed, Marketed, Distributed, Supplied and/or Sold Toxic PFAS and/or Products Containing PFAS

95. Defendants have each marketed, developed, distributed, sold, promoted, manufactured, released, or otherwise used PFAS chemicals in products, including in PFAS-containing turnout gear and Class B foam, throughout the United States and in Massachusetts.

96. PFAS were first developed in the 1930s and 1940s. Soon after, 3M began manufacturing a PFAS material called perfluorooctanoic acid ("PFOA"), selling it to other companies, including DuPont.

97. By the 1950s, PFAS were widely used in large-scale manufacturing. Prior to this, PFAS had never been detected in nor were present in human blood or bodies.

98. In the 1960s, Class B foam containing PFAS entered the global market and became the primary firefighting foam all over the world with 3M as one of the largest manufacturers.

99. In the 1970s, Defendants National Foam and Tyco began to manufacture, market and sell Class B foam containing PFAS, followed by Defendants Chemguard and Dynax in the 1990s, and Defendant Buckeye in the 2000s.

100. Founded in 1918, Defendant MSA/Globe began manufacturing, marketing and selling turnout gear with DuPont's NOMEX® PFAS-containing flame resistant fabric in 1966. MSA/Globe (under the Globe name) continues to manufacture, market and sell turnout gear using PFAS-containing fabrics supplied by its partners, DuPont, Gore, Tencate, and PBI.²⁴

101. Defendant Lion began to manufacture, market and sell turnout gear in 1970. Since its founding, and continuing through to the present, Lion makes, markets and sells turnout gear

²³ Id. (Koskela study); Tasha Stolber, PFAS Chemicals Harm the Immune System, Decrease Response to Vaccines, New EWG Review Finds, Environmental Working Group (November 12, 2020), <u>https://www.ewg.org/news-and-analysis/2020/11/pfas-chemicals-harm-immune-systemdecrease-response-vaccines-new-ewg</u>.

²⁴ See Globe History, Globe MSA Safety Website, (last visited February 26, 2021), <u>https://globe.msasafety.com/history</u>; *Turnout Gear Materials*, Globe MSA Safety Website, (last visited February 26, 2021), <u>https://globe.msasafety.com/materials</u>.

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using PFAS-containing fabrics, including Teflon[®] F-PPE-treated thermal lining material supplied by Defendants DuPont's NOMEX® PFAS-containing flame/water/oil-resistant fabric, and moisture barrier fabrics supplied by Defendant Gore.²⁵

102. Defendant Honeywell acquired Norcross Safety Products LLC in 2008, entering the protective gear industry and becoming one of the leading manufacturers of turnouts. Honeywell makes, markets and sells turnout gear using PFAS-containing fabrics, supplied by Defendants DuPont, Gore, PBI, and StedFast.

D. Defendants Know Exposure to PFAS Causes Serious Health Impacts

103. Defendants, including specifically 3M and DuPont, have long known about the serious and significant impacts to health caused by exposure to PFAS, having conducted study after study on the exposure and health effects of PFAS on animals, and in some cases, even on their own employees. The findings of these studies were discussed within the companies internally, yet were never made public or shared with any regulatory agencies. Among the findings:

- a. A 1950 3M study showed that PFAS could build up in the blood of mice and that PFAS could bind to proteins in human blood suggesting that PFAS would not only remain, but also persist and accumulate in the body of the exposed individuals with each additional exposure.²⁶
- b. In 1961, a DuPont toxicologist warned that PFAS chemicals enlarge rat and rabbit livers.²⁷ A year later, these results were replicated in studies with dogs.²⁸
- c. In 1963, 3M's technical handbook classified PFAS as toxic and advised

²⁵ See Our History, Lion Website (last visited September 29, 2021), <u>http://www.lionprotects.com/lion-history</u>; *Firefighter Turnouts*, Lion Website (last visited September 29, 2021), <u>https://www.lionprotects.com/firefighter-turnout-gear</u>.

 ²⁶ Timeline - For 50 Years, Polluters Knew PFAS Chemicals Were Dangerous But Hid Risks From Public, Environmental Working Group, (2019), <u>https://static.ewg.org/reports/2019/pfa-timeline/3M-DuPont-Timeline_sm.pdf</u>; see also, <u>https://www.ewg.org/pfastimeline/.</u>
 ²⁷ Id.

²⁸ Nathaniel Rich, *The Lawyer Who Became DuPont's Worst Nightmare*, New York Times (June 6, 2016), <u>https://www.nytimes.com/2016/01/10/magazine/the-lawyer-who-became-duponts-worst-nightmare.html.</u>

that "due care should be exercised in handling these materials."²⁹

- d. In 1970, a company that purchased 3M's firefighting foam had to abandon a test of the product because all the fish died.³⁰
- e. In the 1970s, DuPont discovered that there were high concentrations of PFOA in the blood samples of factory workers at DuPont's Washington Works site.³¹
- f. By the end of the 1970s, studies performed by, at least 3M, indicated that PFAS materials were resistant to environmental degradation and would persist in the environment.³²
- g. In 1981, 3M, which still supplied PFOA to DuPont and other corporations, found that ingestion of PFOA caused birth defects in rats. 3M reported this information to DuPont. DuPont then tested the children of pregnant employees in their Teflon division and found that of seven births, two children had eye defects. Defendants reassigned the female employees, but did not inform the EPA or make this information public.³³
- h. In 1988, a company that purchased PFAS firefighting foam complained to 3M because the product was not biodegradable as 3M represented.³⁴ Subsequently, a 3M employee wrote an internal memo that "3M should stop perpetrating the myth that these fluorochemical surfactants are biodegradable, but the company continued to sell them."³⁵
- By at least the end of the 1980s, research performed by Defendants, including specifically, Defendants 3M and DuPont, manufacturing and/or using PFAS materials indicated that at least one such PFAS material, PFOA, caused testicular tumors in a chronic cancer study in rats, resulting in at least Defendant DuPont classifying such PFAS material internally as a confirmed animal carcinogen and possible human carcinogen.³⁶

²⁹ *Id.* at fn. 26.

³⁰ Id.

³¹ *Id*.

³² *PFCS: Global Contaminants: PFCs Last Forever*, Environmental Working Group, (April 3, 2003), <u>https://www.ewg.org/research/pfcs-global-contaminants/pfcs-last-forever</u>.

³³ *Id.* at fn. 26.

³⁴ The Devil They Knew: PFAS Contamination and the Need for Corporate Accountability, Part II, Transcript of Hearing Before the Subcommittee on Environment of the Committee on Oversight and Reform, House of Representatives (September 19, 2019), https://docs.house.gov/meetings/GO/GO28/20190910/109902/HHRG-116-GO28-Transcript-20190910.pdf.

³⁵ *Id*.

³⁶ *Id.* at fn. 26.

- j. In the 1990s, Defendant DuPont knew that PFOA caused cancerous testicular, pancreatic and liver tumors in lab animals. One study also suggested that PFOA exposure could cause possible DNA damage.³⁷ Another study of workers found a link between PFOA exposure and prostate cancer.³⁸
- k. In response to the alarming and detrimental health impact, DuPont began to develop an alternative to PFOA and in 1993, an internal memo announced that "for the first time, we have a viable candidate" that appeared to be less toxic and showed less bioaccumulation.³⁹ DuPont decided against using this potentially safer alternative, however, because products manufactured with PFOA were worth \$1 billion in annual profit.⁴⁰
- On June 30, 2000, 3M and DuPont met to share 3M's "pertinent data on PFOA". 3M informed DuPont that the half-life of PFOA was much longer than animal studies showed.⁴¹

104. Additionally, approximately fifty years of studies by Defendants, including by 3M and DuPont, on human exposure to PFAS found unacceptable levels of toxicity and bio-accumulation, as well as a link to increased incidence of liver damage, various cancers, and birth defects in humans exposed to PFAS.⁴² These studies also revealed that, once in the body, PFAS has a very long half-life and that it takes years before even one-half of the chemicals begins to be eliminated from the body—assuming, of course, the body experiences no additional PFAS chemical exposure.⁴³

105. In the face of these findings, and despite passage of the Toxic Substances Control Act in 1976, which requires companies that manufacture, process or distribute chemicals to immediately report to the EPA information that "reasonably supports the conclusion" that a chemical presents a substantial risk to health or the environment, Defendants did not inform the

³⁷ *Id*.

³⁸ Id.

³⁹ Id.

⁴⁰ Id.

 ⁴¹ Internal DuPont Memorandum, DuPont Haskell Laboratory Visit (June 30, 2000), <u>https://www.ag.state.mn.us/Office/Cases/3M/docs/PTX/PTX1721.pdf</u>.
 ⁴² *Id.* at fn. 26.

⁴³ *Id*.

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EPA, Plaintiffs, or the public about the health impacts resulting from exposure to PFAS.⁴⁴ Indeed, in at least some instances, Defendants' own attorneys advised the companies to conceal their damaging findings on PFAS, which they did for decades.⁴⁵

106. In 2000, 3M announced that it would cease manufacturing a specific PFAS chemical, PFOS, as well as Class B foam, on the same day the EPA announced that PFOA and PFOS, two chemicals in the PFAS family, had a "strong tendency to accumulate in human and animal tissues and could potentially pose a risk to human health and the environment over the long term."⁴⁶

107. However, 3M did not recall PFOS, its chemical feedstock, or any Class B foam that it had previously manufactured, sold, or distributed, or that was then stored at firehouses and being used by firefighters around the country. And, no other Defendant stopped manufacturing PFAS chemicals or products containing PFAS. Rather, Defendants continued to manufacture, develop, market, promote, distribute and sell PFAS chemicals and PFAS-containing products, including specifically PFAS-containing turnouts, and Class B foams and did so without any warning to firefighters or to the public concerning the fact that these turnouts and foams contained PFAS, or that they posed a serious health risk to human health. Defendants instead continued to claim their products were safe.

108. By the 2000s, Defendants' own research of its employees revealed multiple adverse health effects among workers who had been exposed to PFAS, including increased cancer incidence, hormone changes, lipid changes, and thyroid and liver impacts.⁴⁷

109. In 2001, a class action lawsuit was filed in West Virginia against DuPont on behalf of people whose water had been contaminated by the nearby DuPont chemical plant where PFAS

⁴⁴ *Id*.

⁴⁵ *Id.* at fn. 34.

 ⁴⁶ EPA and 3M Announce Phase Out of PFOS, Press Release, United States Environmental Protection Agency (May 16, 2000), https://archive.epa.gov/epapages/newsroom_archive/newsreleases/33aa946e6cb11f35852568e10
 <u>05246b4.html</u>.
 ⁴⁷ Id. at fn. 26.

chemicals were manufactured.

110. Defendants continued to manufacture, market, promote, distribute, and sell PFAS and PFAS-containing products, including turnouts and Class B foam, and continued to publicly claim that these products were safe. Defendants affirmatively suppressed independent research on PFAS, and instead commissioned research and white papers to support their claims that PFAS and PFAS-containing products were safe to use, engaging consultants to further this strategy and ensure that they would continue to profit from these toxic chemicals and products.

111. As one consultant wrote in pitching its services to DuPont, it was critical that the PFAS industry develop an aggressive strategy to "[discourage] governmental agencies, the plaintiffs' bar and misguided environmental groups" and "[implement] a strategy to limit the effect of litigation and regulation on the revenue stream generated by PFOA." The strategy was further described by consultant as follows:

DUPONT MUST SHAPE THE DEBATE AT ALL LEVELS....The outcome of this process will result in the preparation of a multifaceted plan to take control of the ongoing risk assessment by the EPA, looming regulatory challenges, likely litigation, and almost certain medical monitoring hurdles. The primary focus of this endeavor is to strive to create the climate and conditions that will obviate, or at the very least, minimize ongoing litigation and contemplated regulation relating to PFOA. *This would include facilitating the publication of papers and articles dispelling the alleged nexus between PFOA and teratogenicity as well as other claimed harm*. We would also lay the foundation for creating Daubert precedent to discourage additional lawsuits.⁴⁸

112. Class B foam manufacturers and distributors adopted a similarly aggressive industry campaign to evade government oversight or public attention of the risks posed by their products. At a March 2001 meeting of the National Fire Protection Association's Technical Meeting on Foam, which included Defendant Class B foam manufacturers Tyco, Chemguard and National Foam, a 3M representative informed attendees that 3M had discontinued its Class B foam

⁴⁸ Letter from P. Terrence Gaffney, Esq of The Weinberg Group to Jane Brooks, Vice President, Special Initiatives, DuPont de Nemours & Company, regarding PFOA (April 29, 2003).

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business, citing concerns about the "proven pervasiveness, persistence and toxicity" of PFOS.⁴⁹ Attendees also were informed of evidence that telomer-based fluorosurfactants (used by every Class B foam manufacture except 3M) degrade to PFOA and, worse, exhibit an even greater degree of pervasiveness and toxicity than PFOA.

113. On or about the same time, certain Defendants, including at least Tyco, DuPont, Dynax and Buckeye, founded and/or became members of the Fire Fighting Foam Coalition ("FFFC") – a non-profit organization of manufacturers, distributors and suppliers of Class B foam (specifically AFFF). The FFFC's self-described role was to be "the environmental voice for users and manufacturers of AFFF"⁵⁰ – one designed to ignore the health impacts of exposure to PFAS-containing Class B foams such as AFFF:

Not too long ago, 3M had environmental concerns about a chemical in their product and decided to withdraw from the AFFF market. Even though no other manufacturers used the questionable chemical, the withdrawal of 3M from AFFF production raised a red flag. As a direct result, a lot of half-truths and misinformation published by some well-meaning, but misinformed, groups began to surface. One organization went so far as to label our products as "hazardous waste" and as posing an "occupational health or environmental hazard." At the same time, the Federal government was focusing its attention on the industry and needed to identify an industry representative that could provide fact-based information and serve as a focal point for dialogue. We decided, therefore, to form the FFFC in order to educate, inform and help persuade regulatory and legislative decision-makers that firefighting foams are a value-added component to any firefighting capability.⁵¹

114. Defendants also pivoted with a new industry strategy. Defendants continued to produce Class B foams containing PFAS and continued to publicly represent that PFAS and/or products containing PFAS were safe, while developing newer, "short-chain" PFAS alternatives.

⁴⁹ NFPA-11 Technical Committee Meeting Notes (National Fire Protection Association for Standards on Low-, Medium- and High-Expansion Foam) (March 14-15, 2001), <u>https://assets.documentcloud.org/documents/4178280/NFPA-Schedule.pdf</u>.

⁵⁰ Fire Fighting Foam Council Website (last visited September 29, 2021), <u>https://www.fffc.org/afff-update</u>.

⁵¹ *Id.* at <u>https://web.archive.org/web/20020811142253/http://www.fffc.org/about.html</u> (captured August 11, 2002).

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115. In 2005, the EPA fined DuPont \$16.5 million for failing to submit decades of toxicity studies of PFOA (one PFAS chemical manufactured by the company).⁵² In the face of and undeterred by the EPA's action, Defendant turnout manufacturers, such as MSA (Globe) and Lion, partnered with DuPont and with Defendant Gore to develop, manufacture, market, distribute and/or sell turnouts made with DuPont's and/or Gore's PFAS-based textile coatings (e.g., Nomex® and Gore® Protective Fabrics).⁵³

116. In 2006, the EPA "invited" eight PFOA manufacturers, including Defendants DuPont, 3M, and Arkema to join in a "Global Stewardship Program" and phase out production of PFOA by 2015.⁵⁴

117. By this time, Defendants had begun to aggressively manufacture, market and/or distribute short-chain PFAS, such as Gen X, claiming that these alternative PFAS chemicals did not pose significant health risks to humans or the environment. But, these claims, too, were false. Defendants knew that certain of these short-chain PFAS chemicals had been found in human blood, and that at least one of them produces the same types of cancerous tumors (testicular, liver, and pancreatic) in rats as had been found in long-chain PFAS studies.⁵⁵

118. In 2011, a C8 Science Panel convened as part of a settlement in the West Virginia DuPont water contamination case described in paragraph 117, above, began releasing its findings. The Panel had analyzed the blood serum of nearly 70,000 residents living in the water

⁵² Michael Janofsky, *DuPont to Pay \$16.5 Million for Unreported Risks*, New York Times (December 5, 2005), <u>https://www.nytimes.com/2005/12/15/politics/dupont-to-pay-165-millionLion-for-unreported-risks.html</u>.

⁵³ DuPont and Lion Collaborate to Better Protect Firefighters and First Responders, Press Release, DuPont and Lion (January 30, 2013), <u>https://www.prweb.com/releases/dupont_protection_tech/lion_turnout_gear/prweb10362363.htm</u> ; Our Partners, Globe Website (last visited February 26, 2021), <u>https://globe.msasafety.com/ourpartners</u>; and Firefighter & Emergency Response Protection, DuPont Website (last visited February 13, 2022), <u>https://www.dupont.com/personal-protection/firefighter-protection.html</u>.

⁵⁴ *PFOA Stewardship Program*, United States Environmental Protection Agency (last visited February 13, 2022), <u>https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/risk-management-and-polyfluoroalkyl-substances-pfas#tab-3</u>.

⁵⁵ Sharon Lerner, *New Teflon Toxin Causes Cancer in Lab Animals*, The Intercept (March 3, 2016), <u>https://theintercept.com/2016/03/03/new-teflon-toxin-causes-cancer-in-lab-animals/</u>.

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contamination area for two long-chain PFAS (PFOA and PFOS), and found significant negative human health effects (including, kidney cancer, testicular cancer, ulcerative colitis, thyroid disease, high cholesterol and preeclampsia) associated with exposure to these PFAS chemicals in the area groundwater.

119. In 2013, DuPont entered an agreement with the EPA and ceased production and use of PFOA – just one of thousands of PFAS chemicals the company makes, promotes and sells. Defendants, however, continued manufacturing short-chain PFAS materials, chemical feedstock, and products—all the while peddling them as safer, and as more easily bio-degraded than long-chain PFAS, despite evidence to the contrary.⁵⁶

120. In 2015, DuPont spun-off its PFAS chemicals business, as well two-thirds of its environmental liabilities and 90% of its active litigation, to Defendant Chemours. As part of the transaction, DuPont required Chemours to indemnify the "new" DuPont for all assigned environmental liabilities should a regulatory agency or plaintiff seek to hold the "new" DuPont accountable. As Chemours President Paul Kirsch testified before Congress: "DuPont designed the separation of Chemours to create a company where it could dump its liabilities to protect itself from environmental cleanup and related responsibilities."⁵⁷

121. In June 2018, the Agency for Toxic Substances and Disease Registry (ASTDR), a division of the Centers for Disease Control and Prevention at the US Department of Health and Human Services released an 852-page draft toxicology report analyzing scientific data about the most common PFAS chemical variants, finding that PFAS "are potentially more hazardous than previously known, are particularly concerning because of these compounds' persistence in the environment and widespread prevalence—PFAS are extremely slow to biodegrade."⁵⁸

⁵⁶ *Id.* at fn. 17, *see* Tom Neltner, <u>http://blogs.edf.org/health/2019/02/20/potential-biopersistence-short-chain-pfas/</u>.

⁵⁷ *Id.* at fn. 34.

⁵⁸ A Toxic Threat: Government Must Act Now on PFAS Contamination at Military Bases, Center for Science and Democracy (September 2018), https://www.ucsusa.org/sites/default/files/attach/2018/09/a-toxic-threat-pfs-military-fact-sheetucs-2018.pdf.

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122. In September 2019, DuPont chief operations and engineering officer Daryl Roberts testified before Congress that the "new DuPont" (to be distinguished from the "old DuPont" which manufactured and sold PFAS for decades before being spun-off to Chemours) no longer uses or manufactures PFAS and is no longer responsible for obligations and harms resulting from over 65 years of producing PFAS.⁵⁹ Roberts remarked that he knew nothing about "old DuPont's" efforts to suppress research on PFAS' toxicity - as testified to by one of DuPont's former scientists only a few days earlier.⁶⁰ Finally, he stated that any liabilities from "old DuPont's" PFAS operations were now Chemours' problem because DuPont is essentially a completely new company with no past – only a bright future of doing good in the world.⁶¹

E. Defendants Failed to Warn Plaintiffs of the Dangers of Exposure to PFAS and Falsely Represented That Their PFAS Products Were Safe

123. As alleged above, Defendants knew that PFAS are persistent, toxic, and bioaccumulating with a very long half-life. They knew that exposure to PFAS can cause serious and life-threatening diseases, including cancer.

124. Yet, Defendants *did not warn* Plaintiffs that PFAS and Defendants' PFAScontaining products, including turnouts and Class B foams used by the Firefighter Plaintiffs, contained PFAS, or that exposure to PFAS in the normal and intended use of such products, causes serious bodily harm and illnesses, including cancer.

125. Instead, Defendants falsely represented—and continue to falsely represent— that PFAS and PFAS-containing products, including turnouts and Class B foams, are safe and not harmful to humans or the environment.

126. Such assertions fly in the face of science and a global movement toward eliminating this class of chemicals from consumer products. In 2020, for example, Congress passed legislation to address PFAS in turnouts and foam,⁶² and numerous states have severely restricted and/or

⁵⁹ *Id.* at fn. 34.

⁶⁰ Id.

⁶¹ *Id*.

⁶² Ryan Woodward, Congress Passes Legislation to Address PFAS Chemicals Impacting

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banned PFAS-containing firefighting foam. For example, California will also require sellers of turnout gear to notify purchasers if it contains PFAS while Colorado has banned PFAS-containing turnouts as of 2022.⁶³ The U.S. Food and Drug Administration similarly has called for phasing out of short-chain PFAS that contain 6:2 fluorotelomer alcohol (6:2 FTOH).⁶⁴ And private companies like Home Depot, Lowes and Staples recently have begun to discontinue selling products containing any PFAS, as have several outdoor, durable clothing companies (e.g. Columbia and Marmot), clothing retailers (e.g. H&M, Levi Strauss & Co), shoe companies (e.g. Adidas and New Balance), car seat manufacturers (e.g. Britax and Graco), furniture companies (e.g. IKEA), personal care companies (e.g. Johnson & Johnson and Oral-B), and textile manufacturing companies.⁶⁵

(1) Defendants Provide No Safety Warnings on Product Labels

Firefighters, Fire Rescue 1, (December 17, 2020), <u>https://www.firerescue1.com/legislation-funding/articles/congress-passes-legislation-to-address-pfas-chemicals-impacting-firefighters-Sp8MFif5dAbD4ZrI/.</u>

⁶³ Andrew Wallender, Toxic Firefighting Foam With PFAS Scrutinized by Multiple States, Bloomberg Law (June 18, 2020), https://news.bloomberglaw.com/pfas-project/toxic-firefightingfoam-with-pfas-scrutinized-by-multiple-states; Cheryl Hogue, California Bans PFAS Firefighting Chemical & Engineering News (October Foams. 1. 2020), https://cen.acs.org/environment/persistent-pollutants/California-bans-PFAS-firefightingfoams/98/i38#:~:text=California%20is%20halting%20the%20sale,US%20market%20to%20do% 20so; Marianne Goodland, While Dozens of Bills Are Getting Axed, A Bill on Firefighting (May Chemicals Sails On. Colorado Politics 28. 2020). https://www.coloradopolitics.com/legislature/while-dozens-of-bills-are-getting-axed-a-bill-onfirefighting-chemicals-sails-on/article 1b1e05f2-a11e-11ea-a270-230a36e06594.html;

Legislature Takes Strongest Stand Yet to Phase out PFAS in Firefighting Foam, Washington State Council of Fire Fighters (March 5, 2020), <u>https://www.wscff.org/legislature-takes-strongest-stand-yet-to-phase-out-pfas-in-firefighting-foam/;</u>

⁶⁴ FDA Announces the Voluntary Phase-Out by Industry of Certain PFAS Used in Food Packaging, U.S. Food and Drug Administration, July 31, 2020, <u>https://www.fda.gov/food/cfsan-constituent-updates/fda-announces-voluntary-phase-out-industry-certain-pfas-used-food-packaging</u>.

⁶⁵ Muhannad Malas, *Home Depot, Lowe's and Staples Take Action to Protect Their Customers from PFAS and Other Harmful Toxics Lurking in Carpets and Office Supplies*, Environmental Defense (November 5, 2019), <u>https://environmentaldefence.ca/2019/11/05/home-depot-lowes-staples-protect-customers-toxics/; *PFAS-Free Products*, PFAS Central, (last visited February 15, 2021), <u>https://pfascentral.org/pfas-free-products/</u>.</u>

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127. Plaintiffs allege that the packaging on the PFAS-containing Class B foam containers used for mixing Class B foam with water, pumping the mixture into engines, and for spraying and laying foam blankets for fire suppression or fire suppression training, contained no warning that the Class B foam contained PFAS. Nor did it inform persons handling or using the foam as it was intended to be handled that such use can result in exposure to PFAS and serious bodily harm.

128. Below are photos typical of the Class B foam containers manufactured, marketed, distributed, or sold by Defendants in Massachusetts that Firefighter Plaintiffs used in training or in fire suppression during their firefighting careers. The labels on the containers warn only of possible skin or eye irritation, and suggest rinsing areas of contact with water. They contain *no information* about the Class B foam containing PFAS or PFAS-containing materials, and provide *no warning whatsoever* of the human health risks and serious health conditions associated with PFAS exposure resulting from the normal and intended use of Class B foam in fire suppression or fire suppression training.



129. Plaintiffs further allege that turnouts containing PFAS or PFAS materials sold by Defendants in Massachusetts, and used by the Firefighter Plaintiffs in training, emergency incidents, or in fire suppression during their firefighting careers, also contained no warning that the turnouts contain PFAS or PFAS materials. Nor did these labels inform persons handling, wearing, or using the turnouts as they were intended to be handled, worn or used can result in exposure to PFAS and serious bodily harm.

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130. Below are photos typical of warning labels for turnouts manufactured, marked, sold and distributed by Defendants MSA/Globe and Lion. As depicted below, the labels do not disclose that the turnouts contain toxic PFAS or PFAS materials, and contain no warning that handling, wearing, or using the turnouts as they were intended to be handled, worn or used can result in exposure to PFAS and serious bodily harm. Further, while the labels provide washing instructions, the instructions do not advise that turnouts should be washed in a commercial extractor to prevent cross-contamination and PFAS-exposure to family members who handle or wash the turnouts with other garments in home washing machines.



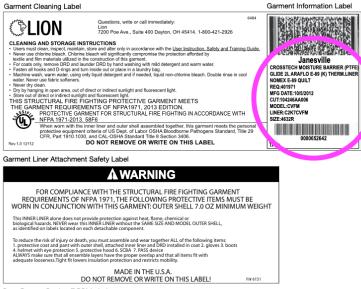


Garment Safety Label

A DANGER

You must read and understand these warnings and instructions. Failure to follow these warnings and instructions will result in serious injury or death.

Wear this gamment ONLY CPGH FIREFIGHTING ACTIVITES.
 Wear this gamment ONLY CPGH FIREFIGHTING ACTIVITES.
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Drag Rescue Device (DRD) Label

(2) Defendants' MSDS Sheets Do Not Warn About PFAS or PFAS Exposure

131. A Material Safety Data Sheet (or "MSDS") is a document that Occupational Safety and Health Administration (OSHA) requires companies to provide to end users for products that contain substances or chemicals that are classified as hazardous or dangerous. Access to such information is necessary for the Firefighter Plaintiffs to provide a safe and effective response in emergency situations.

132. The MSDS provided with Defendants' Class B foams did not – and to this day do not – state that these foams contain PFAS or PFAS-containing materials; that PFAS is persistent, toxic and bio-accumulating; or that PFAS exposure causes serious bodily harm. To the contrary, the MSDS falsely stated that the Class B foams and/or their contents were *not* known carcinogens and did not cause birth defects.

133. Even now, the MSDS do not reflect the known serious health risks and hazards associated with exposure to PFAS in these Class B foams. For example, a MSDS updated on as recently as May 19, 2021by Defendant National Foam for AFFF stated the product *was not considered carcinogenic* - contrary to decades of science.⁶⁶

(3) Defendants' Misrepresentations About PFAS Continue to this Day

134. Despite their decades of knowledge about PFAS and its dangers, Defendants continue to make false claims, continue to misrepresent the safety of PFAS, and continue to minimize and fail to warn about the hazards of exposure to PFAS, or turnouts and Class B foams made with or containing PFAS.

135. Defendants' misinformation campaign is long-standing, and continues to this day.Some pertinent examples include:

a. 2017 – Defendant Lion's President, Stephen Schwartz, wrote a letter to the editor of the Columbus Dispatch, expressing outrage at the assertion in a

⁶⁶ National Foam Safety Data Sheet for Centurion (TMC6) 6% Aqueous Film Forming Foam Concentrate (AFFF) (May 19, 2021) <u>https://nationalfoam.com/wp-content/uploads/sites/4/NMS340_Centurion-6-AFFF-Concentrate_052192021.pdf</u>.

government filing that firefighters may have been exposed to PFAS through turnout gear. Schwartz called this assertion false, stating that Lion's turn-out gear is not treated or made with PFOS or PFOA:. "PFOAs and PFOSs have never been components of Lion's turn-out gear, either as a coating or as a textile." He acknowledged that turn-out gear is treated with PTFE to provide a durable water repellant, and that the textile industry in the past had used PFOA as a processing aid to manufacture PTFE moisture barrier films and repellants. "It is possible that trace amounts may have been present as a residue when the films and finishes were incorporated into Lion's turn-out gear. *However, based on all available scientific data, such nominal trace amounts, if they existed at all, would not have posed any health risk to firefighters. There is absolutely no connection at all between PFOS and firefighter turnout gear."* (Emphasis added).⁶⁷

- b. 2018 The National Fire Protection Association (which maintains committees on foams and turnouts that are comprised, in part, of certain Defendants) issued a publication listing 11 ways to minimize risk of occupational cancer the suggestions centered on wearing turnouts for protection resulting from combustion or spills, and cleaning turnouts after exposure to chemicals. There was not a single mention of avoiding contact with foam and/or the risks of wearing turnouts containing PFAS or PFAS-containing materials.⁶⁸
- c. 2019 Defendant Lion issued a Customer Safety Alert for PFOA and Turnout Gear stating: "Your Lion turnout gear continues to be safe and ready for action especially when properly maintained. It is extremely important that firefighters continue to wear and properly care for their gear to stay safe on the job."
- d. 2019 Defendant 3M Vice President, Denise Rutherford, testified before Congress that she *absolutely agreed with the statement that "the weight of current scientific evidence does not show that PFOS or PFOA cause adverse health effects in humans at current rates of exposure.*" (emphasis

⁶⁷ Letter from Lion president Stephen A. Schwartz to Ala D. Miller, Editor, The Columbus Dispatch (October 30, 2017), <u>http://files.constantcontact.com/bf8abd7a001/01f5d727-d72e-42dc-971b-caa9c2855800.pdf</u>.

⁶⁸ 11 Best Practices for Preventing Firefighter Cancer Outlined in New Report Put Out by VCOS and NVFC, National Fire Protection Association Xchange (August 16, 2018), https://community.nfpa.org/community/nfpa-today/blog/2018/08/16/11-best-practices-forpreventing-firefighter-cancer-outlined-in-new-report-put-out-by-vcos-and-nvfc.

added)69

- e. 2019 The Fire Fighting Foam Council (of which many Defendants have been members since its inception in 2001) wrote in their newsletter that: "Short-chain (C6) fluorosurfactants do not contain or breakdown in the environment to PFOS or PFOA and are currently considered lower in toxicity and have significantly reduced bio-accumulative potential than long-chain PFAS."⁷⁰
- f. 2019 Defendant Dynax founder Eduard Kleiner stated that C6-based surfactants [short-chain PFAS] do not bioaccumulate.⁷¹
- g. 2019 Defendant Gore issued a public statement, stating that "the potential exposures and associated risks of cancer effects from PFOA alternative and non-polymeric perfluoroalkyl substances in Gore Components [turnout gear] are insignificant."⁷²
- h. 2020 FluoroCouncil the lobbying arm of the PFAS industry maintains that PFAS fluorotelomers that are in Class B foam and turnouts do not cause cancer, disrupt endocrine activity, negatively affect human development or reproductive systems, do not build up in the human body, and do not become concentrated in the bodies of living organisms.⁷³
- i. 2020 The Fire Fighting Foam Council website states: "The short-chain (C6) fluorosurfactants that have been the predominant fluorochemicals used in fluorotelomer-based AFFF for the last 25 years are low in toxicity and not

⁶⁹ Gabe Schneider, *3M Grilled over PFAS Chemicals at Congressional Hearing*, MinnPost (September 11, 2019), <u>https://www.minnpost.com/national/2019/09/3m-grilled-over-pfas-chemicals-at-congressional-hearing/</u>.

⁷⁰ AFFF Update Newsletter, Fire Fighting Foam Council (April 2019), <u>https://tinyurl.com/y57c5jwx</u>.

⁷¹ Marc S. Reisch, *What Is the Price of Fire Safety*?, Chemical & Engineering News (January 14, 2019), <u>https://cen.acs.org/business/specialty-chemicals/price-fire-safety/97/i2?ref=search_results</u>.

 ⁷² W. L. Gore and Associates, *Exposure Assessment and Cancer Risk Characterization for Firefighters from Non-Polymeric PFAS Residuals in Gore Components Used in Firefighting Gear*, (August 20, 2019),

https://www.goretexprofessional.com/sites/tof/files/pdfs/Firefighter%20Exposure%20Assessmen t%20Short%20Chain%20Non%20Polymer%20Residual.pdf.

⁷³ An Important Update About FluoroCouncil, FluoroCouncil, Global Industry Council for Fluoro Technology (<u>https://portal.ct.gov/DEEP/Remediation--Site-Clean-Up/PFAS-Task-Force/Pollution-Prevention-Committee</u> - *see* "*Resources*" -- Fluorocouncil PFAS Information (August 23, 2019).

considered to be bio-accumulative based on current regulatory criteria."74

- j. 2020 The Fire Fighting Foam Council's Best Practice Guidance for Use of Class B Foam - which was published in May 2016 and has not been updated to reflect the latest research - focuses entirely on eliminating and containing foam to minimize impact on the environment. It makes no mention of how to minimize the impact on firefighters who routinely handle, prepare, spray, or use Class B foam during training or in firefighting.⁷⁵
- k. 2020 Defendant Lion-hired consultant Paul Chrostowski, PhD took out a full-page in Firefighter Nation to argue that turnout gear is completely safe and any evidence to the contrary, including the Notre Dame study, is unreliable and fear-mongering. "[E]ven if PFAS were found in their turnout gear, at this time there is no credible evidence that it ends up in firefighters bodies in amounts that would be higher than the general population.... the connection between PFAS and cancer is extremely weak. The few peerreviewed epidemiological studies that have found an association were not statistically significant and inconsistent with other studies.... The materials used in turnout gear are the safest materials available, and without them, firefighters would be at extreme risk for burns and exposure to known cancercausing toxic chemicals present on the fireground, as well as metabolic heat stress....Alternative materials tried by the U.S. fire service thus far have proven to be unsafe."⁷⁶
- 2020 Defendant Lion through its hired consultant Chrostowski also stated in Firefighter Nation that all turnouts are compliant with the standards set by the NFPA and Swiss organization OEKO-TEX's Standard 100 for PPE and Materials for PPE. "The OEKO-TEX certification process tests for the presence of unsafe levels of trace materials, including PFOA."⁷⁷
- m. 2021 In a New York Times article, Defendant W.L. Gore maintained that its

⁷⁴ Fact Sheet on AFFF Fire Fighting Agents, Fire Fighting Foam Council (2017), https://tinyurl.com/yyxscyas.

⁷⁵ Best Practice Guidance for Use of Class B Firefighting Foams, Fire Fighting Foam Council (May 2016), <u>https://tinyurl.com/2kzdsed9</u>.

⁷⁶ Paul Chrostowski, *Research and Independent Testing Shows Firefighters' Turnout Gear Remains Safe Despite Claims* (June 3, 2020), <u>https://www.firefighternation.com/health-safety/research-and-independent-testing-shows-firefighters-turnout-gear-remains-safe-despite-claims/#gref</u>.

⁷⁷ Id.

turnout products were safe.⁷⁸

- n. 2021 Defendant Lion stated that the representations articulated by its consultant Paul Chrostowski in 2020 (see above), reflect its position: "Dr. Chrostowski's report says it all for Lion."⁷⁹
- o. 2021 Defendants MSA Globe and W. L. Gore have continued to state that their products have been tested and are safe.⁸⁰
- 2022 Defendant 3M stated that it was not "necessary or appropriate" to p. declare any PFAS hazardous.⁸¹ It also states on its website that: "The weight of scientific evidence from decades of research does not show that PFOS or PFOA causes harm in people at current or past levels....Decades of research into the health of these workers has not identified negative health outcomes caused by exposure to PFOA or PFOS....It is important to know that while some studies may find links or associations with possible health outcomes, this is not the same as causation. The weight of scientific evidence does not show that PFOS or PFOA causes harm to people at current or historical levels. Although PFAS have been detected in the environment at extremely low levels, their mere presence does not mean they are harmful.... Although it has been widely reported that no causal connection has been identified between exposure to PFOS or PFOA and harm to people's health, there is a great deal of misinformation in the public domain.... The findings of the C-8 science panel are also frequently misunderstood."⁸²
- q. 2022 DuPont and Chemours also continue to assert that there is little

⁷⁸ Hiroko Tabuchi, *Firefighters Battle an Unseen Hazard: Their Gear Could Be Toxic*, New York Times, (January 26, 2021), <u>https://www.nytimes.com/2021/01/26/climate/pfas-firefighter-safety.html</u>.

⁷⁹ David Ferry, *The Toxic Job of Being A Hero*, Men's Health, (September 21, 2021), <u>https://www.menshealth.com/health/a37624731/cancer-firefighter-gear-pfas/</u>.

⁸⁰ Andrew Wallender, *Firefighters Want Halt on Money From Makers of PFAS-Laden Gear*, Bloomberg Law, (January 19, 2021), <u>https://news.bloomberglaw.com/pfas-project/firefighters-want-halt-on-money-from-makers-of-pfas-laden-gear</u>.

⁸¹ Jim Spencer, 3M's Support for PFAS Could Cost Taxpayers Billions of Dollars, Star Tribune (September 11, 2021), <u>https://www.startribune.com/3m-s-support-for-pfas-could-cost-taxpayers-billion-of-dollars/600096094/</u>.

⁸² 3M website, PFAS Stewardship – Health Science (last visited January 12, 2022), <u>https://www.3m.com/3M/en_US/pfas-stewardship-us/health-science/</u>.

scientific evidence to support that PFAS and/or certain PFAS, like fluoropolymers, are harmful to human health.⁸³

r. 2022 - DuPont maintains that turnouts keep firefighters safe and "protect against the intrusion of…chemicals."⁸⁴

136. As frequent sponsors and advertisers in fire service publications, Defendants have been so influential in the industry that fire service leadership has echoed these narratives.

137. For example, in 2017, the International Association of Fire Fighters ("IAFF"), which represents more than 324,000 full-time professional firefighters, issued a statement that both mischaracterized and purported to state that the risks associated with exposure to PFAS and PFAS chemicals and materials in turnouts and Class B foams was minimal to non-existent.⁸⁵ The statement even encouraged firefighters to continue to wear turnouts and use legacy Class B foams, creating a false sense that these PFAS-containing turnouts and foams were safe. The statement reads, in relevant part:

Importantly, PFOA use has been almost completely phased out in the US....Fire fighters may have additional PFOA exposure sources such as older Class B firefighting foams. If PFOA is a combustion product of PFOA-containing consumer products made prior to phasing out use of this chemical, fire fighters will be exposed in fire suppression activities. However, the data are too limited at present to determine this. PFOA is unlikely to be a component in recently US

⁸³ DuPont website, Information on PFAS (last visited January 12, 2022), https://www.pp.dupont.com/pfas/what-governmental-agencies-say.html; Chemours website, Our Commitment to PFAS Stewardship (last visited January 12. 2022), https://www.chemours.com/en/corporate-responsibility/sustainability-safety/our-commitment-topfas-stewardship.

⁸⁴ Id. at DuPont website (last visited January 12, 2022), <u>https://www.pp.dupont.com/knowledge/dupont-technology-in-your-turnout-gear.html</u>.

⁸⁵ The IAFF maintained this position until January 2021 when IAFF members demanded that the IAFF leadership hold turnout and Class B foam manufacturers accountable.⁸⁵ In July 2021, new IAFF President Edward Kelley made clear that the cancer rates of firefighters is unacceptable and that IAFF is actively working to rid the fire service of the toxic PFAS found in firefighting foams and turnout gear. "The data is becoming clearer. The gear that's supposed to be protecting us is poisoning us. It defies logic. IAFF, Address by IAFF General President Edward Kelly, Facebook (July 16, 2021), <u>https://www.facebook.com/IAFFonline/videos/180233720677454</u>.

manufactured turnout gear. However, if PFOA is a combustion product, it may be present as a contaminant on turnout gear. PFOA may also be present as a manufactured component of legacy turnout gear....The exposure contribution from any such PFOA content is likely to be minimal since volatilization from the manufactured product would be required....**At this time, IAFF does not recommend that legacy turnout gear be replaced outside of its lifecycle. Fire fighters wishing to minimize PFOA exposure should continue to wear their PPE...and regularly decontaminate their turnout gear.** IAFF will continue to monitor developments and update this fact sheet should new information become available.⁸⁶

138. The IAFF maintained the Defendants' position that the turnout gear and Class B foam was safe until new leadership took over in 2021. Because of these and other false claims and misrepresentations on the part of Defendants, the Firefighter Plaintiffs did not know and, in the exercise of reasonable diligence, could not have known that the turnouts and Class B foams they used contained PFAS or PFAS-containing materials, and caused the Firefighter Plaintiffs to be exposed to PFAS and/or PFAS-containing materials, causing them to suffer cancers and other serious illnesses as a result of such exposure.

139. Also, in January 2021, Defendants DuPont and Chemours along with Corteva (the agricultural unit of DuPont that it spun off in 2019) announced a cost-sharing agreement worth \$4 billion to settle lawsuits involving the historic use of PFAS – thereby acknowledging, at long last, the significant harm their PFAS chemicals have caused to human health and the environment.

140. The Firefighter Plaintiffs only learned for the first time that they had significantly elevated levels of PFAS in their blood in December 2021, at the earliest, when they received test results of their blood serum.

F. New Research Indicates That Firefighters are at Significant Risk of Harm From Exposure to PFAS in Turnouts and Class B Foams — But Defendants Continue to Discount or Deny These Risks

141. While historical research (and follow-on litigation) has centered on environmental

⁸⁶ International Association of Firefighters, *Statement on PFOA and Turnout Gear* (May 2017), <u>https://tinyurl.com/y29mfh69</u>.

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impacts and environmental exposures associated with PFAS and PFAS-containing products, recent studies have focused specifically on the serious health impacts to firefighters stemming from their occupational exposure to turnouts and Class B foams containing PFAS.

142. In October 2019, for example, an expert panel of the International Pollutants Elimination Network (IPEN), an international non-profit organization comprised of over 600 public interest non-governmental organizations dedicated to improving global chemical waste policies, published a scientific paper that, in the words of its authors, "presents unequivocal evidence from recent studies that firefighters" using Class B foams (primarily AFFF) "have unexpectedly elevated blood levels" of PFAS, including, specifically, PFHxS and PFOS, with PFHxS (a short-chain, C6 PFAS) being "potentially of greater concern than PFOS given its much longer elimination half-life in humans."⁸⁷ The paper explains that "[f]irefighters can be significantly exposed to PFHxS and other PFAS from firefighting foam via various occupational mechanisms including direct exposure during use as well as exposure from contaminated personal protective equipment (PPE), handling of contaminated equipment, managing PFAS foam wastes, occupation of contaminated fire stations and consumption of contaminated local water and produce. Cross-contamination and legacy PFAS residues from inadequately decontaminated appliances after transitioning to fluorine-free foam can remain a long-term problem.⁸⁸ The panel concluded that "[o]ngoing exposure to PFHxS, PFOS and other PFAS amongst firefighters remains a major occupational health issue," noting that "[b]io-accumulation and very slow bioelimination may be very significant influencing factors in PFHxS exposure" in firefighters⁸⁹. "Of greater concern," the panel observed, "is that firefighter blood levels for PFOS and PFHxS are many times higher than the median values for the general...population."⁹⁰

 ⁸⁷ Perfluorohexane Sulfonate (PFHxS) – Socio-Economic Impact, Exposure and the Precautionary Principle Report, IPEN Expert Panel (October 2019), <u>https://ipen.org/sites/default/files/documents/pfhxs_socio-economic_impact_final_oct.2019.pdf</u>.
 ⁸⁸ Id. at p. 25.

⁸⁹ Id.

⁹⁰ Id.

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143. In June 2020, scientists at the University of Notre Dame published a groundbreaking study on PFAS in turnout gear, and the exposure risks posed to firefighters that wear, wore, or handle such gear ("Notre Dame Turnout Study"). The Notre Dame Turnout Study analyzed over 30 sets of used and unused (still in their original packaging) turnout gear made by six U.S. manufacturers, including Defendants MSA/Globe, Lion and Honeywell, over several production years, as listed below:⁹¹

PPE gear manufacturers sampled:	# samples
Globe Manufacturing (Pittsfield MA),	11
Lion Group (Dayton OH),	12
Honeywell First Responder (Dayton, OH),	2
Lakeland Fire (Decatur, AL)	2
Quest Fire Apparel (Saratoga Springs, NY)	1
Quaker Safety (Quakertown, PA)	2
he tune and number of turnout gear camples used in th	hie etadar

The type and number of turnout gear samples used in this study.

144. The Notre Dame Turnout Study noted that these manufacturers' turnout gear (or personal protective equipment-PPE, as it is described in the study) are manufactured "from textiles that are made from fluoropolymers (one form of PFAS) or extensively treated by PFAS in the form of side-chain fluoropolymers."⁹² According to the researchers, "[t]hese PFAS include fluoropolymer materials such as PTFE used as a moisture barrier in the inner layers of turnout gear."⁹³ The study found significant levels of PFAS chemicals – including PFOA, PFOS, PFBA, PFPeA, PFHxA, PFHpA, PFNA, PFDA, PFUnA, PFDoA, PFTrDA, PFToDA, PFBS, PFOSA, N-EtFOSA, MeFOSAA, N-MeFOSE, N-EtFOSE and 6:20FTS – in both new and used turnout gear, and across layers, portions, and materials in the turnout gear, including in material layers that are not intentionally treated with PFAS by the manufacturer, thereby providing "the first evidence that suggests PFAS appear to migrate from the highly fluorinated layers and collect in the untreated

⁹¹ *Id.* at fn. 6.

⁹² *Id.* at p. A.

⁹³ *Id*.

layer of clothing worn against the skin."94

145. These findings suggest that, as the garments are worn, PFAS from the outer shell and the moisture barrier can migrate from the turnouts and contaminate both the firefighter, their apparatus and workplace with PFAS. The analysis also indicated that fluoropolymers from the outer layer decompose into other PFAS, including PFOA.

Environmenta	Science &	Technol	logy	Letters
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Letter

	jacket 2008 unused				pants 2014 used			jacket 2017 unused	
values in ppb	thermal liner	moisture barrier	outer shell	thermal liner	moisture barrier	outer shell	moisture barrier	moisture barrier	
PFBA	<mdl< td=""><td>12.8</td><td>10.6</td><td>139</td><td>615</td><td>21.5</td><td>20.5</td><td>991</td></mdl<>	12.8	10.6	139	615	21.5	20.5	991	
PFPeA	<mdl< td=""><td>12.6</td><td>17.8</td><td>228</td><td>104</td><td>164</td><td>18.1</td><td>2.49</td></mdl<>	12.6	17.8	228	104	164	18.1	2.49	
PFHxA	<mdl< td=""><td>30.5</td><td>36.9</td><td>199</td><td>28.6</td><td>10.9</td><td>35.8</td><td>36.9</td></mdl<>	30.5	36.9	199	28.6	10.9	35.8	36.9	
PFHpA	<mdl< td=""><td>12.4</td><td>25.4</td><td>105</td><td>5.82</td><td>2.23</td><td>14.3</td><td>25.4</td></mdl<>	12.4	25.4	105	5.82	2.23	14.3	25.4	
PFOA	78	46	182	850	71	97	37	<mdl< td=""></mdl<>	
PFNA	2.63	<mdl< td=""><td>8.2</td><td>25.3</td><td>1.95</td><td><mdl< td=""><td>2.76</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	8.2	25.3	1.95	<mdl< td=""><td>2.76</td><td><mdl< td=""></mdl<></td></mdl<>	2.76	<mdl< td=""></mdl<>	
PFDA	2.98	6.51	5.51	133	<mdl< td=""><td><mdl< td=""><td>23.7</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td>23.7</td><td><mdl< td=""></mdl<></td></mdl<>	23.7	<mdl< td=""></mdl<>	
PFUnA	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td>7.96</td><td><mdl< td=""><td><mdl< td=""><td>2.51</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td>7.96</td><td><mdl< td=""><td><mdl< td=""><td>2.51</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td>7.96</td><td><mdl< td=""><td><mdl< td=""><td>2.51</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	7.96	<mdl< td=""><td><mdl< td=""><td>2.51</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td>2.51</td><td><mdl< td=""></mdl<></td></mdl<>	2.51	<mdl< td=""></mdl<>	
PFDoA	<mdl< td=""><td>5.01</td><td><mdl< td=""><td>68.6</td><td><mdl< td=""><td><mdl< td=""><td>25.9</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	5.01	<mdl< td=""><td>68.6</td><td><mdl< td=""><td><mdl< td=""><td>25.9</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	68.6	<mdl< td=""><td><mdl< td=""><td>25.9</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td>25.9</td><td><mdl< td=""></mdl<></td></mdl<>	25.9	<mdl< td=""></mdl<>	
PFBS	283	140	142	53 400	47 900	1050	230	90 400	
PFOS	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td>7</td><td><mdl< td=""><td><mdl< td=""><td>2</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td>7</td><td><mdl< td=""><td><mdl< td=""><td>2</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td>7</td><td><mdl< td=""><td><mdl< td=""><td>2</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	7	<mdl< td=""><td><mdl< td=""><td>2</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td>2</td><td><mdl< td=""></mdl<></td></mdl<>	2	<mdl< td=""></mdl<>	
6:2 FTS	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td>25.9</td><td>12.9</td><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td>25.9</td><td>12.9</td><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td>25.9</td><td>12.9</td><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	25.9	12.9	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>	
8:2 FTS	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td>11.1</td><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td>11.1</td><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td>11.1</td><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<></td></mdl<>	11.1	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""></mdl<></td></mdl<>	<mdl< td=""></mdl<>	

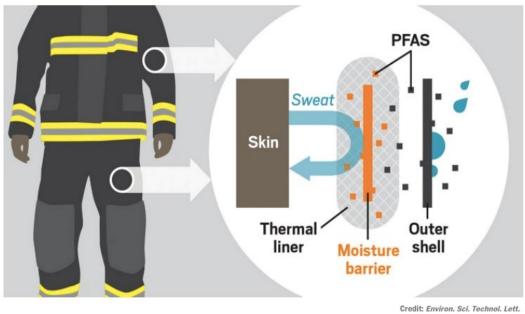
146. "Startlingly," researchers reported, "garment to hand transfer of total fluorine in the ppm range was also observed when researchers simply manipulated the textiles in [the] laboratory."95 The accumulation of PFAS on researchers' hands strongly suggests that transference of ppm levels of PFAS can occur merely by handling the turnouts and that PFAS exposure pathways include inhalation, ingestion and/or absorption (through dermal contact) – all of which DuPont internally acknowledged as being toxic in 1980. Such exposure pathways are a concern not only for firefighters that rely on turnouts to protect them from heat, fire, water and chemical hazards in the field, but to family members who may be exposed to the PFAS in turnouts

⁹⁴ *Id.* at p. C.

⁹⁵ Id.

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as the result of home washing or storage. Lead researcher Graham Peaslee commented that turnouts are "the most highly fluorinated textiles I've ever seen"⁹⁶ and that the level of PFAS in the turnout gear means that firefighters are "swimming in a sea of [PFAS]. Those numbers for scientists are scarily high..."⁹⁷



Over time, PFAS in a firefighter's turnout gear can migrate from a moisture barrier (orange) into a thermal liner that contacts skin. PFAS can also be shed from an outer shell (black) into the environment.

147. Despite these findings, Defendants have been quick to mischaracterize, dismiss or downplay the significance of the Notre Dame Turnout Study. Defendant MSA/Globe, when contacted about the study and asked whether Globe planned to study this issue and find an alternative to PFAS for turnouts, merely responded thusly: "[P]rotecting (firefighters) is Globe's business; every piece of our turnout gear meets or exceeds applicable industry standards."⁹⁸

⁹⁶ Raleigh McElvery, Protective Gear Could Expose Firefighters to PFAS, Chemical and Engineering News (July 1, 2020), <u>https://cen.acs.org/environment/persistent-pollutants/Protective-gear-expose-firefighters-</u> PFAS/98/i26?fbclid=IwAR3ktyIcasjnxHiv3RNDRJIdZmunQleAEoS3Av225uOscj2hFbffVcO3-

Go.

⁹⁷ Andrew Wallender, *Firefighters Face New Possible Risk From Toxic PFAS: Their Gear*, Bloomberg Law (June 23, 2020), <u>https://news.bloomberglaw.com/pfas-project/firefighters-face-new-possible-risk-from-toxic-pfas-their-gear</u>.

⁹⁸ Blair Miller, *Local Firefighters Concerned About Potentially Dangerous Chemicals on Gear*, Boston 25 News (February 26, 2019), https://www.boston25news.com/news/local-firefighters-

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148. Defendant Lion's responses have been similar, and have also dismissed or minimized the significance of the Notre Dame Turnout Study's findings. Lion issued a Customer Safety Alert for PFOA and Turnout Gear stating: "Your Lion turnout gear continues to be safe and ready for action especially when properly maintained. It is extremely important that firefighters continue to wear and properly care for their gear to stay safe on the job."⁹⁹

149. The Customer Safety Alert goes on to stress that Lion does not use PFOA or PFOS (two long-chain PFAS chemicals) in its turnouts.¹⁰⁰ It does not, however, address that Lion's turnouts in fact contain other PFAS chemicals, nor warn firefighters or the public about health harms associated with exposure to these toxic, bio-accumulating chemicals.

HERE'S ALL YOU NEED TO KNOW ABOUT PFOA AND YOUR TURNOUT GEAR.

What is PFOA and why are we talking about it?

Perfluorooctanic Acid (PFOA) is a chemical that until recently was used in the process to make many different industrial chemicals and products. The manufacture and use of PFOA was mostly phased out by major chemical companies by 2010. By 2015, its manufacture was eliminated in the United States.

In the firefighting protective clothing industry, PFOA was used as a processing agent in the manufacture of resins used to make PFTE films – the primary component of the moisture barrier used in turnout gear. While most residual PFOA was eliminated from the manufacturing process of PTFE, some tiny trace amounts remained. LION does not use PFOA or PFOS in our turnout gear or any of our protective products.

PFOS has never been a component of turnout gear. PFOS health and environmental concerns are largely related to AFFF foams and are not connected to turnout gear.

150. As noted above, Defendant Lion's paid consultant, Dr. Paul Chrostowski, also has taken aim at the Notre Dame Turnout Study and its findings. Refuting a *Fire Rescue* magazine article about the study,¹⁰¹ Chrostowski repeated Lion's website statement that "PFOA was never part of the gear itself and frequent independent testing has found only trace amounts of it in any

facing-concerns-over-potentially-dangerous-chemicals-on-gear/925236612/.

⁹⁹ Lion Customer Safety Alert – PFOA and Turnout Gear (April 24, 2019), <u>https://cdn2.hubspot.net/hubfs/3475623/LION_PFOA_factsheet_042419.pdf</u>. ¹⁰⁰ Id

¹⁰¹ Larissa Conroy, *What If I Told You That Your Bunker Gear Was Causing Cancer?*, Fire Rescue (May 28, 2020), <u>https://www.firefighternation.com/firerescue/what-if-i-told-you-that-your-bunker-gear-was-causing-cancer/#gref</u>.

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of the gear – not nearly enough to cause concern, and in amounts similar to consumer products."¹⁰² Chrostowski went on to say "[t]he fact is that one may find trace amounts of 'short-chain' PFAS such as PFBS and PFHxA in firefighting textiles, but the scientific research shows that these materials are far less toxic than even PFOA and at the tiny trace levels the risk are extremely low based on numerous credible published scientific research papers."¹⁰³ Finally, Chrostowski falsely stated that the link between PFAS exposure and cancer is "extremely weak."¹⁰⁴

151. And yet, Lion has admitted publicly that dermal absorption is a pathway of exposure to cancer-causing chemicals for firefighters. In Lion's *Not in Our House* cancer awareness fact sheet that currently appears on the company's website, Lion warns firefighters: "For every 5 degree increase in temperature, skin becomes 400% more absorbent. The hotter you



 ¹⁰² Paul Chrostowski, Ph.D., QEP, Research and Independent Testing Shows Firefighters' Turnout Gear Remains Safe Despite Claims, Fire Rescue (June 3, 2020). https://firerescuemagazine.firefighternation.com/2020/06/03/research-and-independent-testing-shows-firefighters-turnout-gear-remains-safe-despite-claims/ - gref.
 ¹⁰³ Id.
 ¹⁰⁴ Id.

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are, the more carcinogens your skin absorbs.¹⁰⁵ This statistic is alarming given that the core body temperature of firefighters routinely increases during firefighting activities while wearing turnouts which contain known carcinogens.¹⁰⁶

152. Likewise, Defendant Honeywell has stated: "The skin on the neck is very thin and prone to absorbing carcinogenic particulates."¹⁰⁷

153. Another recent Harvard study examining PFAS levels in fire stations dust found that "dust in turnout gear locker areas and adjoining apparatus bays had significantly higher fluorine concentrations compared to living rooms in fire stations," as well as fluorine concentrations typically found in in Class B foam and/or textiles as opposed to consumer products.¹⁰⁸



105

Lion

website,

https://cdn2.hubspot.net/hubfs/3475623/NOT%20IN%20OUR%20HOUSE%20Tip%20Sheet_In fographic%20(02-02-19).pdf (last visited February 13, 2022).

¹⁰⁶ Nancy Espinoza, *Can We Stand the Heat?*, Journal of Emergency Medical Services, (April 30, 2008), <u>https://www.jems.com/operations/can-we-stand-heat-study-reveal/</u>; Gavin P. Horn, et al., *Thermal Response to Firefighting Activities in Residential Structure Fires: Impact of Job Assignment and Suppression Tactic*, Ergonomics (July 31, 2017), <u>https://tinyurl.com/4j2mz7f7</u>.

¹⁰⁷ Ronnie Wendt, *Innovations in Turnout Gear, Industrial Fire World* (March 17, 2021), <u>https://www.industrialfireworld.com/598931/innovations-in-turnout-gear.</u>

¹⁰⁸ *Id.* at fn. 7.

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154. For years, the IAFF has held a yearly cancer summit and until 2021, had done little to address the PFAS in turnouts.¹⁰⁹ Defendants, including at least DuPont, Gore, Lion and MSA/Globe, have been regular sponsors of the IAFF Cancer Summit.

155. At this event, as well as in firefighter cancer-related publications, programs and events, Defendants repeatedly used the summit as an opportunity to push the narrative that incidence of cancer among firefighters is attributable either to *other chemicals* encountered in the line of duty, or firefighters' failure to wash their turnouts after every call. Not once have the turnout Defendants admitted that the PFAS materials in their products has been found to be carcinogenic, and that the very equipment that should be protecting firefighters are causing the most harm. Further, Lion's recently launched "Not in Our House" cancer awareness program is sadly ironic in that it encourages *firefighters themselves to make a pledge to protect themselves from carcinogens linked to cancer* ("I will make every effort to protect myself and my team by doing my part to take precautions that will minimize the risk of exposure to carcinogens that may lead to cancer...") *while all the while refusing to take any corporate responsibility* for continually exposing firefighters to carcinogens in their protective gear.¹¹⁰

¹⁰⁹ As alleged above, in para. 137 and fn. 84, IAFF has only recently begun to take action related to PFAS exposure due to pressure from its firefighter members. At the IAFF Annual Meeting in January 2021, two groundbreaking PFAS-related firefighter safety resolutions passed with the support of 99% of the membership. The resolutions require IAFF to: (1) sponsor independent testing of turnouts for PFAS and PFAS-related hazards, (2) oppose the use of PFAS and PFAScontaining materials in turnouts, (3) require manufacturers to cease using PFAS in their firefighting products (4) identify which manufacturers will not cease using PFAS, (5) issue an advisory to fire departments to stop sending used or old turnouts to communities that are not able to buy new gear and instead provide grants to purchase new gear, and (6) cease accepting financial sponsorships from any PFAS/chemical-related companies unless it is to purchase PFAS-free turnout gear. Andrew Wallender, PFAS Resolutions Overwhelmingly Approved by Firefighters' Union, Bloomberg Law (February 1, 2021), https://news.bloomberglaw.com/daily-laborreport/pfas-resolutions-overwhelmingly-approved-by-firefighters-union; San Francisco Cancer Prevention Foundation, Firefighters (last visited September 30, 2021), https://www.sffcpf.org/resolutions-to-protect-members-from-toxic-substances-in-ppe/.

¹¹⁰ Rachel Zoch, *Take A Pledge To Stop Cancer At the Door*, Fire Rescue 1 (January 28, 2019), <u>https://www.firerescue1.com/fire-products/personal-protective-equipment-ppe/articles/take-a-pledge-to-stop-cancer-at-the-door-e8bn7uAbtIXWdQau/</u>.

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156. Firefighter Plaintiffs deserve more. They are the first to respond to emergencies faced by their community, and never hesitate to help. Whether delivering a baby, responding to a fire, medical emergency, accident, mass shooting, terrorist attack, natural disaster, or teaching kids about fire safety, firefighters always put the community first. When a child is drowning in a pool or a family is caught in a burning house, they do not stop to calculate whether they will benefit by doing the right thing. They are true public servants. They step in and do what is needed when it is needed the most. Their health, safety and well-being must be of the highest priority.

G. The Firefighter Plaintiffs Have Significant Levels of PFAS in their Blood

157. After years of Defendants suppressing research showing PFAS to be toxic and associated with cancer and other serious illnesses, misrepresenting the safety of PFAS and PFAS-containing turnouts and Class B foam, and attributing the cause of firefighters' cancers and other serious illnesses to factors other than turnouts and Class B foams (or the PFAS chemicals and materials in these foams and turnouts), Firefighter Plaintiffs could not know and, in fact, did not know that significant levels of PFAS was likely to or had bio-accumulated in their blood.

158. Prior to filing this complaint, Firefighter Plaintiffs submitted blood serum samples to public health professionals at the University of California, San Francisco (UCSF) for PFAS level testing and analysis. The results, which were issued in December of 2021, are startling.

159. The testing shows that the Firefighter Plaintiffs have significant levels of PFAS in their blood for multiple PFAS chemicals.

160. Importantly, the Firefighter Plaintiffs' blood samples showed significant levels of PFOA and PFOS – two PFAS chemicals contained in turnouts and Class B foams that are known carcinogens and have been found to cause cancer and other serious health illnesses in humans.

161. Firefighter Plaintiffs only learned for the first time that they were likely to have, and in fact had, significantly elevated levels of PFAS in their blood in December 2021, at the earliest, after testing results revealed these facts.

162. Based on all of the foregoing, Firefighter Plaintiffs bring this action for damages and for other appropriate relief sufficient to compensate them for the significant harm Defendants'

PFAS chemicals and PFAS-containing products have caused.

H. It Was Technologically and Economically Feasible for Defendants to Design Safer Firefighting Foams and Turnouts

163. Defendants have long known that safer, reasonable, alternative designs existed and could be utilized. These designs are and were not only technologically feasible, but also economically. Indeed, given the enormous cost of remediation of the environment and litigation, not to mention the cost of human lives, the safe, feasible alternatives would have cost significantly less.

164. In the early 2000s, 3M, in conjunction with Solberg Scandinavian AS developed Re-Healing Foam ("RF"), a high-performance, AFFF-comparable product that contained no fluorochemicals, and resulted in two patents and three commercial products of PFAS-free firefighting foam. RF met the standard of "ICAO [International Civil Aviation Organization] Level B and matched AFFF in performance including a US MIL-Spec product."¹¹¹ In 2007, Solberg bought 3M's patent rights to RF and continued to market and sell RF. In 2011, Defendant Amerex acquired Solberg and continued to manufacture, market and sell RF. In 2014, the EPA presented Solberg with the Presidential Green Chemistry Challenge Award for its fluorine-free foams; the award recognizes technologies that prevent pollution and match or improve the performance of existing products.¹¹² In 2018, Defendant Perimeter Solutions in 2018 acquired Solberg and continued to manufacture, market and sell RF.

¹¹¹ Fluorine Free Firefighting Foams (3F) – Viable Alternatives to Fluorinated Aqueous Film-(AFFF), Forming Foams **IPEN** Expert Panel (September 2018), https://ipen.org/sites/default/files/documents/IPEN F3 Position Paper POPRC-14 12September2018d.pdf; Schaefer, Ted. H. et al., New Foam Technology, New Found Benefits, Solberg. IAFPA Sydney 2005 Conference Proceedings (Oct. 5-7. 2005), https://www.solbergfoam.com/getattachment/c5bef149-b850-48df-81a8-19b977c6daed/New-Foam-Technology,-New-Found-Results.aspx;

¹¹² Marc S. Reisch, What Is the Price of Fire Safety? As Lawsuits Pile Up and Government Pressure Rises, Firefighting-Foam Makers Reconsider the Environmental Cost of Fluorosurfactants, Chemical & Engineering News (January 14, 2019), https://cen.acs.org/business/specialty-chemicals/price-fire-safety/97/i2.

165. Also, beginning in the early 2000s, BIOEX launched a highly effective, fluorinefree Class B F3 foam which has been approved and used by international airports, fire departments, oil and gas companies, the marine industry and pharmaceutical and chemical companies around the world.¹¹³

166. However, lobbyists and companies invested in maintaining profits on fluorinated Class B foam not only continued to represent that PFAS-containing foam was safe, but also intentionally maligned the fluorine free foams, falsely asserting that these foams were less effective and more expensive.¹¹⁴ As noted by IPEN:

Over the years since the serious introduction on the market of Class B fluorine-free F3 foams suitable for hydrocarbon and polar solvent fires: there have been many attempts by the fluorochemical side of the industry and their lobbyist trade associations to undermine and downplay the operational performance of Class B fluorine-free foams whilst minimizing the environmental issues associated with fluorinated products. This has included publishing in the technical trade literature spurious performance tests carried out by non-independent or certified bodies funded by competitors to F3 producing companies, as well as continually perpetrating unsupported myths. It is these myths in particular that must be controverted for what they are: marketing hype, misrepresentation of test conditions, frank untruths or only partial truths, criticism of a competitor's product, and an exhibition of vested interests.¹¹⁵

¹¹³ Fluorine Free Firefighting Foam (FFF) – Firefighting Foam Concentrates, BIOEX website (last visited December 13, 2021), https://www.bio-ex.com/en/our-products/compositions/fluorinefree-foam/; "Major international hubs such as Dubai, Dortmund, Stuttgart, London Heathrow, Manchester, Copenhagen, and Auckland. All of the 27 major airports in Australia have transitioned to F3 foams, with airports in Europe such as Billund, Guernsey, Bristol, Blackpool, Koln Bonn also using F3 [fluorine-free] foams. Private sector companies using F3 foams include: BP, ExxonMobil, Total, Gazprom, Statoil, BHP Billiton, Bayern Oil, 3M, BASF, Chemours, AkzoNobel, Stena Line, Pfizer, Lilly, Weifa, JO Tankers, and ODFJEL. In the oil and gas sector F3 foams are being extensively, with Statoil in Norway having transitioned to F3 foams throughout all of it operations. Some military users including the Danish and Norwegian Armed forces have moved to F3 foams, with the Royal Danish Airforce transitioning to F3 foams several year ago." Fluorine Free Firefighting Foams (3F) – Viable Alternatives to Fluorinated Aqueous Film-Forming Foams (AFFF), IPEN Expert Panel, 48 (September 2018). pg. https://ipen.org/sites/default/files/documents/IPEN F3 Position Paper POPRC-14 12September2018d.pdf

¹¹⁴ *Id.* at 20.

¹¹⁵ *Id.* at 22.

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167. In 2011, the Fire Fighting Foam Coalition, which includes Defendants Tyco, DuPont, Dynax, Kidde, and Buckeye, misrepresented a U.S. Navy report comparing Solberg's fluorine-free RF with Defendant National Foam's 6-Em AFFF and Defendant Buckeye's FC-3MS AFFF, asserting Solberg's RF was less effective. In fact, though Solberg's RF was not made per military specifications as it did not include fluorine, the U.S. Navy Report found:

For iso-octane, the non-fluorinated foam had shorter extinguishment times than the two AFFFs and was the only foam to achieve an extinguishment time under 30 seconds....The non-fluorinated foam had substantially better performance on iso-octane than on any of the other fuels.

Conclusions: For the AFFF foams which were intended to work via formation of an aqueous film, fire extinction times were lengthened considerably in cases where film formation was made difficult by the low surface tension of the fuel. For the non-filming fluorine-free foam, however, no such performance decrement was observed, and the fire extinction times on the lowest surface tension fuel were lower than for fuels with higher surface tensions, and within the 30 second time limit specified (on gasoline) by MIL-F-24385F.¹¹⁶ (emphasis added)

168. Further, the study found that AFFF foams had 25% drain times (between 4-6 minutes) whereas the fluorine-free RF's drain time was 12 minutes. This slower drain time leads to greater burn back resistance and greater safety for firefighters.

169. The technology to develop safer, effective and economical fluorine-free Class B foam is and has been available for, at least, over 20 years. In fact, many firefighting foam manufacturers and distributors companies manufacture, market and/or sell fluorine-free firefighting foams, including Defendants Tyco, Perimeter Solutions, Chemguard, Johnson Controls, and National Foam.

170. EUROFEU, an umbrella organization representing fire protection trade associations and companies including Defendant Tyco, even stated in 2019: "We believe that F3s [fluorine-free foams] are very suitable for a growing number of applications such as municipal

¹¹⁶ Solberg Foam, *Re-Healing Foam Fire Performance*, Technical Bulletin, #1009 (last visited December 13, 2021), <u>https://www.solbergfoam.com/getattachment/f8574423-9518-4888-a054-c170c0d9a234/RE-HEALING-Foam-Fire-Performance.aspx</u>.

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firefighting, training, some testing and as foam agents in first responding fire trucks."¹¹⁷

171. LAST FIRE, a consortium of international oil companies developing best industry practice in storage tank Fire Hazard Management including Shell Oil, Chevron, BP, Exxon and Defendant Perimeter Solutions, concluded after conducting 200 tests that: "Fluorine free foams can provide equivalent performance to C6 foams [AFFF] and provide appropriate performance for hydrocarbon [fires]."¹¹⁸

172. Safe fluorine-free turnout gear was and is also technologically and economically feasible.

173. Defendant Fire-Dex manufactures, markets and sells an entire line of PFAS-free turnouts, as well non-fluorinated fabrics from Safety Components with a PFAS-free water-repellent.¹¹⁹ "Made with the same fabric as our traditional TECGEN71 outer shell, this material is designed to reduce heat stress while offering the same performance levels in TPP, breathability, and overall reduction of composite weight."¹²⁰ Further, because of the increased breathability and thermal protection, the PFAS-free gear is the only outer shell that can currently be paired with the lightest and thinnest thermal liners and moisture barriers.¹²¹ This, according to Defendant Fire-Dex, significantly reduces heat stress and cardiac failure for firefighters while also reducing the risk of cancer and other diseases by eliminating PFAS exposure though turnout gear.

¹¹⁷ The Use of PFAS and Fluorine-Free Alternatives in Fire-Fighting Foams, European Commission DG Environment and European Chemicals Agency (ECHA), Final Report, June 2020, p. 273, <u>https://echa.europa.eu/documents/10162/28801697/pfas_flourine-free_alternatives_fire_fighting_en.pdf/d5b24e2a-d027-0168-cdd8-f723c675fa98</u>

¹¹⁸ *Id.* at pp. 314-315. Hydrocarbon fires are flammable gas or liquid fires that may involve gas, oil, kerosene, ethanol, propane, acetylene, hydrogen, and methane, to name a few.

¹¹⁹ *Fire-Dex Launches Non-Fluorinated PPE Fabrics*, Firehouse.com (February 17, 2021), <u>https://www.firehouse.com/safety-health/ppe/turnout-gear/press-release/21210722/firedex-firedex-launches-nonfluorinated-ppe-fabrics</u>.

¹²⁰ Alternative PPE, Fire-Dex website, (last visited December 14, 2021), https://www.firedex.com/catalog/tecgen51-fatigues/#materials.

¹²¹ TecGen71 Outer Shell, Fire-Dex website, (last visited December 14, 2021),<u>https://www.firedex.com/tecgen71/</u>.

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174. Defendants MSA/Globe, Honeywell, Tencate, and Gore have developed, manufactured, marketed and/or sold PFAS-free waterproofing technology, PFAS-free outer shells in turnout gear and/or durable PFAS-free fabrics.¹²²

175. Defendant Honeywell even admitted that these PFAS-free alternatives are safe, feasible and economical: "Any minor tradeoffs with PFAS-free fabrics are outweighed by worker safety. And the protection level is unchanged. PFAS-free gear offers the same thermal protection and moves the same way. The color fastness and wear remain the same."¹²³

176. While the technology to develop fluorine-free turnout gear has been available for years, the NFPA turnout standards-setting technical committee continues to adhere to certain guidelines for turnout gear which require PFAS – knowingly putting firefighters at risk for exposure to PFAS. This committee is comprised of industry consultants, textile and gear manufacturers, including Defendants MSA/Globe, Lion, Tyco, and Honeywell.¹²⁴

177. The economic and technological feasibility of fluorine-free foams and turnout gear is well-established, and based on technology that has been available for years. The alternative designs detailed above are far safer for firefighters and eliminate the serious health risks that result from PFAS exposure.

178. The only barrier to producing safer alternatives to PFAS-containing foams and turnout gear has been Defendants' opposition. Their continued manufacturing, marketing, selling

¹²² FreeFAS Durable Water Repellent (DWR) Coating, MSA/Globe website (last visited December 14, 2021), <u>https://globe.msasafety.com/newoutershells</u>; *Id.* at fn. 106, Wendt, *Innovations in Turnout Gear*, Industrial Fire World (March 17, 2021), <u>https://www.industrialfireworld.com/598931/innovations-in-turnout-gear</u>; WL Gore to Release PFAS-free Waterproof Material for Apparel, Chemical Watch (October 4, 2021), <u>https://chemicalwatch.com/346695/wl-gore-to-release-pfas-free-waterproof-material-for-apparel</u>.
¹²³ Id. at fn. 106.

¹²⁴ NFPA 1971/1851 Technical Committee Meeting Minutes (March 31, 2020), <u>https://www.nfpa.org/assets/files/AboutTheCodes/1971/1971_F2022_FAE_SPF_Pre-FD_MeetingMinutes_3_20.pdf;</u> NFPA 1971/1851 Technical Committee Meeting Minutes (January 11-12, 2012), <u>https://www.nfpa.org/assets/files/aboutthecodes/1851/fae-spf_pre-rocmeetingminutes_01-12%20(2).pdf.</u>

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and/or distributing PFAS-containing foams and turnout gear has exposed firefighters to toxic PFAS chemicals. These defective designs are and/or have been a substantial factor in causing Firefighter Plaintiffs' injuries.

179. Based on all of the foregoing, Firefighter Plaintiffs bring this action for damages and for other appropriate relief sufficient to compensate them for the significant harm Defendants' PFAS chemicals and PFAS-containing products have caused.

EQUITABLE TOLLING OF APPLICABLE STATUE OF LIMITATIONS

180. Plaintiffs incorporate by reference all prior paragraphs of this complaint as though fully set forth herein.

A. To the Extent Applicable, the Statute of Limitations Should Be Equitably Tolled Due to Defendants' Fraudulent Concealment and Misrepresentations

181. Defendants had control over, and superior, if not exclusive, knowledge of the hazardous toxicity, persistence and bioaccumulation of PFAS and PFAS-containing materials for decades.

182. Since at least the 1960s, and as late as the early 1990s, Defendants have known, or should have known, of the hazardous toxicity, persistence and bioaccumulation of PFAS and PFAS-containing materials, including Class B foam and/or turnouts, when internal study after internal study showed not only unacceptable levels of toxicity and bioaccumulation in human blood, but links to increased incidence of liver damage, tumors, cancer and birth defects. Such information was material to Firefighter Plaintiffs at all relevant times

183. Nonetheless, as detailed above, Defendants intentionally concealed these materials facts and findings from their own internal research from firefighters, including Firefighter Plaintiffs, fire departments, fire service media, fire organizations, the EPA and the public.

184. Defendants have also continuously misrepresented the safety of PFAS and PFAScontaining materials for the past sixty years to firefighters, including Firefighter Plaintiffs, fire departments, fire service media, fire organizations, the EPA and the public. Indeed, to this day, Defendants continue to assert in their public statements, on their websites, and on the product warning labels and material safety data sheets statements that accompany their PFAS-containing

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products, including Class B foam and turnouts, are safe and non-toxic.

185. When concerns have been raised in the scientific and fire service communities about the safety of PFAS and PFAS-containing turnouts and/or Class B foam, Defendants have uniformly dismissed these concerns as scientifically unfounded and maintained that PFAS and protective equipment containing PFAS are safe and non-toxic.

186. In the face of challenges from the fire service communities as to the safety of PFAScontaining protective equipment, Defendants have repeatedly asserted that because the protective equipment meets the NFPA technical standards, there is no basis to challenge the safety of the turnouts and/ or Class B foam. The Defendants, however, did not also disclose that they have actively participated in establishing the NFPA technical standards and withheld material information from the NFPA when those standards were set.

187. Defendants knowingly, actively, and affirmatively concealed the facts alleged herein and misrepresented the safety of PFAS or PFAS-containing turnouts and/or Class B foam to Firefighter Plaintiffs.

188. Firefighter Plaintiffs reasonably relied upon, and were deceived by Defendants' representations that their PFAS or PFAS-containing turnouts and/or Class B foam were safe and non-toxic. Firefighter Plaintiffs were unaware that the Class B foam and/or turnouts contained toxic PFAS chemicals.

189. As a result of Defendants' fraudulent concealment and misrepresentations and despite Firefighter Plaintiffs' due diligence, Firefighter Plaintiffs did not and could not have discovered the operative facts - that PFAS were in their turnouts and/or Class B foam and exposed them to toxic levels of PFAS – to form the basis for a cause of action against Defendants within the statute of limitations period.

190. At all times, Defendants are and were under a continuous duty to disclose to Firefighter Plaintiffs the hazardous toxicity, persistence, and bioaccumulation associated with the use of PFAS or PFAS-containing materials in turnouts and Class B foam.

191. For these reasons, any and all applicable statutes of limitations have been tolled as

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a consequence Defendants' ongoing knowledge, active fraudulent concealment, and misrepresentation of material facts alleged herein.

B. Defendants Should Be Estopped From Using Statute of Limitations as an Affirmative Defense Due to Their Fraudulent Concealment and Misrepresentations

192. To the extent that certain Firefighter Plaintiffs did know sufficient facts to file a cause of action against Defendants during any applicable statute of limitations period, Defendants should be estopped from invoking the statute of limitations as an affirmative defense as they have continually, intentionally and knowingly fraudulently concealed and misrepresented material facts about the hazardous toxicity, persistence and bioaccumulation of PFAS and PFAS-containing materials, including Class B foam and/or turnouts, which caused certain Firefighter Plaintiffs to delay in filing a claim against Defendants.

193. Defendants had control over, and superior, if not exclusive, knowledge of the hazardous toxicity, persistence and bioaccumulation of PFAS and PFAS-containing materials for decades, and they fraudulently and intentionally concealed these facts from Firefighter Plaintiffs for 60 years. To this day, they actively and falsely maintain that PFAS and PFAS-containing products are not toxic, persistent and/or bioaccumulative.

194. Defendants have repeatedly and falsely represented to firefighters, including certain Firefighter Plaintiffs, that any increase in the cancer rate among firefighters is from exposure to other chemicals during fires - not from exposure to PFAS or PFAS-containing materials found in turnouts and/or Class B foam that firefighters use daily.

195. While Defendants also repeatedly advised firefighters, including certain Firefighter Plaintiffs, fire departments, the fire service media and fire organizations that the best solution for reducing cancer incidence was to decontaminate firefighters' turnout gear with industrial-grade washing machines after responding to a fire and/or using Class B foam, Defendants knowingly and intentionally concealed from certain Firefighter Plaintiffs and fire departments that repeated washing of turnout gear would cause the turnouts to degrade more quickly, causing increased

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exposure to toxic-PFAS through inhalation, ingestion and/or dermal exposure.

196. When concerns have been raised in the scientific and fire service communities about the safety of PFAS and PFAS-containing turnouts and/or Class B foam, Defendants have uniformly dismissed these concerns as scientifically unfounded and maintained that PFAS and protective equipment containing PFAS are safe and non-toxic.

197. In the face of challenges from the fire service communities as to the safety of PFAScontaining protective equipment, Defendants have repeatedly asserted that because the protective equipment meets the NFPA technical standards, there is no basis to challenge the safety of the turnouts and/ or Class B foam. The Defendants, however, did not also disclose that they have actively participated in establishing the NFPA technical standards and withheld material information from the NFPA when those standards were set.

198. As Defendants had control over and superior knowledge of the serious risks of PFAS, certain Firefighter Plaintiffs reasonably relied upon Defendants' knowing and affirmative misrepresentations, and/or active concealment, of material facts regarding the hazardous toxicity, persistence and bioaccumulation of PFAS and PFAS-containing materials, including Class B foam and/or turnouts, which caused certain Firefighter Plaintiffs to delay in filing a claim against Defendants.

199. Based on the foregoing, Defendants are estopped from relying on any and all applicable statutes of limitations in defense of this action.

C. To the Extent Applicable, the Statute of Limitations Should Be Tolled

200. For over fifty years and to this day, Defendants have fraudulently concealed and actively misrepresented the hazardous toxicity, persistence, and bioaccumulation associated with the use of PFAS or PFAS-containing materials in Class B foam and/or turnouts to firefighters, including certain Firefighter Plaintiffs, fire departments, the fire service media and fire organizations in an effort to mask the very serious health and environmental consequences of exposure to PFAS.

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201. Because of Defendants' active and ongoing concealment of the true nature of the hazardous toxicity, persistence, and bioaccumulation associated with the use of PFAS or PFAS-containing materials in Class B foam and/or turnouts, and their prior knowledge of it, Plaintiffs could not have reasonably discovered the causes of action alleged herein.

202. Further, it was nearly impossible for Firefighter Plaintiffs to determine whether they had PFAS in their blood and a basis for a claim against Defendants. Obtaining a PFAS analysis of a blood sample is not readily available to the public, nor is it a test that a medical doctor or regular hospital lab can order much less analyze.

203. In addition to the obstacles of getting PFAS blood serum levels tested, certain Firefighter Plaintiffs had no realistic ability to discern or suspect that the hazardous toxicity, persistence, and bioaccumulation associated with the use of PFAS or PFAS-containing materials in Class B foam and/or turnouts were a substantial cause of their injuries until—at the earliest—the Firefighter Plaintiffs received their test results revealing that they had significantly elevated levels of PFAS in December 2021.

204. The causes of action alleged herein thus did not accrue until certain Firefighter Plaintiffs discovered the hazardous toxicity, persistence, and bioaccumulation associated with the use of PFAS or PFAS-containing materials in Class B foam and/or turnouts, <u>and</u> that they had elevated levels of PFAS in their bodies and blood.

205. Accordingly, Defendants are precluded by the Discovery Rule from relying upon any and all applicable statutes of limitations.

COUNT ONE - BREACH OF IMPLIED WARRANTY OF MERCHANTABILITY -DESIGN DEFECT (MA. GEN. LAWS Ch. 106, § 2-314)

206. This cause of action is asserted against all Defendants on behalf of all of the Firefighter Plaintiffs.

207. The Firefighter Plaintiffs incorporate by reference all prior paragraphs of this complaint, as though fully set forth herein.

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208. Each Defendant, their predecessors-in-interest, and/or their alter egos, and/or entities they have acquired, have engaged in the business of designing, manufacturing, distributing, supplying, and/or selling turnouts and/or Class B foam and, by doing so, impliedly warranted that the turnouts and/or Class B foams were merchantable, safe, and fit for ordinary purposes for which they were used, including for use by firefighters such as the Firefighter Plaintiffs.

209. Defendants knowingly placed PFAS and/or PFAS-containing turnouts and/or Class B foam into the stream of commerce with full knowledge that they were sold to fire departments or to companies that sold turnouts and/or Class B foam to fire departments for use by firefighters such as the Firefighter Plaintiffs, who are or were exposed to PFAS through ordinary and foreseeable uses for the purpose of firefighting activities, including training, extinguishment, ventilation, search-and-rescue, salvage, containment, and overhaul.

210. Defendants intended that the PFAS and/or PFAS-containing turnouts and/or Class B foam they were manufacturing, distributing, supplying, and/or selling would be used by firefighters, including the Firefighter Plaintiffs, without any substantial change in the condition of the products from when the products were initially designed, manufactured, distributed, supplied, and/or sold by Defendants.

211. The Firefighter Plaintiffs used and/or were exposed to these PFAS-containing products in the ways that Defendants intended them to be used and for the ordinary purposes for which these products were intended.

212. The Firefighter Plaintiffs used and/or were exposed to these PFAS-containing products in ways that were foreseeable to Defendants.

213. The Firefighter Plaintiffs were exposed to PFAS by using Defendants' PFAScontaining turnouts and/or Class B foam in the course of their firefighting activities, as described above, without knowledge of the turnouts' and/or Class B foam's dangerous and hazardous properties.

214. The turnouts and/or Class B foam designed, manufactured, distributed, supplied, and/or sold by Defendants and used by the Firefighter Plaintiffs, contained PFAS or PFAS-

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containing materials that were so toxic and unreasonably dangerous to human health and the environment, with the toxic chemicals being so mobile and persistent, that the turnouts and/or Class B foam are defective in design and/or are unreasonably dangerous, unsuitable, and not safe for use by firefighters even when used as directed by the manufacturer and for the intended purposes of firefighting activities which include training, extinguishment, ventilation, search-and-rescue, salvage, containment, and overhaul.

215. Further, knowing of the dangerous and hazardous properties of turnouts and Class B foam, Defendants could have designed, manufactured, distributed, supplied, and/or sold reasonable alternative designs or formulations of turnouts and/or Class B foam that did not contain PFAS. Such alternative designs would have been safer for consumer-firefighters, and would have reduced or prevented the Firefighter Plaintiffs' harm. These alternative designs and/or formulations were already available, practical, similar in cost, and technologically feasible.

216. The use of these alternative designs would have reduced or prevented the reasonably foreseeable harm to the Firefighter Plaintiffs that was caused by the Defendants' design, manufacture, distribution, supply, and/or sale of PFAS and PFAS-containing materials, including turnouts and/or Class B foam.

217. Additionally, the turnouts and/or Class B foam that were designed, manufactured, distributed, supplied, and/or sold by the Defendants contained PFAS or PFAS-containing materials that were so toxic and unreasonably dangerous to human health and the environment, with the toxic chemicals being so mobile and persistent, that the act of designing, manufacturing, distributing, supplying, and selling these products was unreasonably dangerous under the circumstances.

218. The PFAS-containing turnouts and/or Class B foam designed, manufactured, distributed, supplied, and/or sold by the Defendants were dangerous and defective in design or formulation because, at the time in which the products left the hands of the manufacturer or distributors, the foreseeable risks exceeded the benefits associated with the design or formulation of PFAS-containing turnouts and/or Class B foam.

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219. The PFAS-containing turnouts and/or Class B foam designed, manufactured, distributed, supplied, and/or sold by the Defendants were dangerous and defective in design or formulation because, when the PFAS-containing products left the hands of the manufacturer or distributors, said products were unreasonably dangerous, unreasonably dangerous in normal use, did not meet ordinary consumer-firefighter's reasonable expectations as to their safety, and were more dangerous than an ordinary consumer-firefighter would expect.

220. The PFAS-containing turnouts and/or Class B foam were in a defective condition and unsafe, and Defendants knew or had reason to know that these PFAS-containing products were defective and unsafe, especially when used in the form and manner as provided by Defendants. In particular, Defendants PFAS-containing products were defective in the following ways:

221. When placed in the stream of commerce, Defendants' PFAS-containing turnouts and/or Class B foam were defective in design and formulation and as a result failed to meet ordinary users' expectations as to their safety and failed to perform as an ordinary user would expect.

222. When placed in the stream of commerce, Defendants' PFAS-containing turnouts and/or Class B foam were defective in design and formulation, and as a result, dangerous to an extent beyond which an ordinary consumer-firefighter would anticipate.

223. When placed in the stream of commerce, Defendants' PFAS-containing turnouts and/or Class B foam were unreasonable dangers in that they were hazardous and posed a grave risk of cancer and other serious illnesses when used in a reasonably anticipated manner.

224. When placed in the stream of commerce, Defendants' PFAS-containing turnouts and/or Class B foam contained unreasonably dangerous design defects and were not reasonably safe when used in a reasonably anticipated manner.

225. Exposure to PFAS presents a risk of grave and harmful side effects and injuries that outweigh any potential utility stemming from their use.

226. Defendants knew or should have known at the time of designing, manufacturing, distributing, supplying and/or selling their PFAS-containing turnouts and/or Class B foam, that

exposure to PFAS by firefighters, including the Firefighter Plaintiffs, could result in cancer and other grave and serious illnesses and injuries as alleged herein.

227. The unreasonably dangerous design defect in turnouts and/or Class B foam containing PFAS exposed the Firefighter Plaintiffs to toxic levels of PFAS and therefore, was a proximate cause of the Firefighter Plaintiffs' injuries and damages as described herein.

228. As a result of Defendants' design and formulation of a defective product, Defendants are liable in damages to the Firefighter Plaintiffs.

229. As a direct and proximate result of the foregoing acts and omissions, the Firefighter Plaintiffs suffered the injuries and damages described herein.

230. Defendants acted with willful or conscious disregard for the rights, health, and safety of the Firefighter Plaintiffs, as described herein, thereby entitling the Firefighter Plaintiffs to an award of punitive damages.

COUNT TWO - BREACH OF IMPLIED WARRANTY OF MERCHANTABILITY– FAILURE TO WARN (MA. GEN. LAWS Ch. 106, § 2-314)

231. This cause of action is asserted against all Defendants on behalf of all of the Firefighter Plaintiffs.

232. The Firefighter Plaintiffs incorporate by reference all prior paragraphs of this complaint, as though fully set forth herein.

233. Each Defendant, their predecessors-in-interest, and/or their alter egos, and/or entities they have acquired, have engaged in the business of designing, manufacturing, distributing, supplying, and/or selling of PFAS or PFAS-containing materials, including turnouts and/or Class B foam, and, through that conduct, have knowingly placed PFAS-containing products into the stream of commerce with full knowledge that they were sold to fire departments or to companies that sold turnouts and/or Class B foam to fire departments for the use by firefighters such as the Firefighter Plaintiffs, who were exposed to PFAS through ordinary and foreseeable uses for the purposes of firefighting activities which include training, extinguishment, ventilation, search-and-

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rescue, salvage, containment, and overhaul.

234. The products complained of were designed, manufactured, distributed, supplied, and/or sold by each of the Defendants and/or used by and/or in the vicinity of the Firefighter Plaintiffs during their lifetime and/or they were exposed to PFAS while using turnouts and/or Class B foam in the ordinary course of performing their duties as firefighters.

235. Defendants expected that the PFAS-containing products they were designing, manufacturing, distributing, supplying, and/or selling would reach firefighters, including the Firefighter Plaintiffs, without any substantial change in the condition of the products from the time such PFAS-containing products were initially manufactured, sold, distributed, and marketed by Defendants.

236. As set forth herein, Defendants knew or should have reasonably known that the turnouts and/or Class B foam containing PFAS that they designed, manufactured, distributed, supplied, or sold were hazardous to human health.

237. Defendants knew or reasonably should have known of the dangers of the turnouts and/or Class B foams before, during and/or after their design, manufacture, distribution, supply and sale of those products.

238. Defendants were required to warn users of the dangers that are present in the PFAScontaining turnouts and/or Class B foam that Defendants designed, manufactured, supplied, and/ or sold.

239. The potential risks of using PFAS-containing turnouts and/or Class B foam presented a substantial danger to firefighters, including the Firefighter Plaintiffs, when the turnouts and/or Class B foam were used and/or worn in an intended or reasonably foreseeable way.

240. The Firefighter Plaintiffs used and/or were exposed to Class B foam and/or wore turnouts in the intended or reasonably foreseeable way in the ordinary course of performing their duties as firefighters, including fire suppression and fire suppression training.

241. Defendants' PFAS and PFAS-containing products, including turnouts and/or Class B foam, were in a defective condition and unreasonably dangerous by design and, are deleterious,

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toxic, and highly harmful to the Firefighter Plaintiffs, as described herein.

242. Defendants knew or should have reasonably known that exposure to PFAS was hazardous to human health, but:

a. Did not provide an adequate warning of the potential harm that might result from exposure to PFAS or PFAS-containing materials in turnouts and/or Class B foam;

b. Did not have adequate instructions for safe use of the products;

c. Did not have warnings to persons, such as the Firefighter Plaintiffs, who had been, or reasonably may have been, exposed to Defendants' turnouts and/or Class B foam, of their disease potential, the proper steps to take to reduce the harmful effects of previous exposure, the need to have periodic medical examinations including the giving of histories which revealed the details of the previous exposure, and the need to have immediate and vigorous medical treatment for all related adverse health effects; and

d. Did not manufacture, market, promote, distribute and/or sell reasonably comparable products not containing PFAS when it became feasible to design.

243. Defendants knew that the use of turnouts and/or Class B foam, even when used as instructed by Defendants, subjected the Firefighter Plaintiffs and others to a substantial risk of harm from PFAS or PFAS-containing materials, and yet, failed to adequately warn the Firefighter Plaintiffs, the EPA, or the public.

244. At the time of manufacture, distribution, promotion, labeling, distribution, and/or sale, and thereafter, Defendants could have provided warnings or instructions regarding the full and complete risks of turnouts and/or Class B foam containing PFAS or PFAS-containing materials, because Defendants knew or should have known of the unreasonable risks of harm associated with the use of and/or exposure to such products.

245. A reasonable person in Defendants' position and with Defendants' knowledge would have provided a warning as to the hazardous and toxic risks of PFAS to users of their PFAS-containing turnouts and/or Class B foams.

246. Defendants also knew and/or could have identified the users of the turnouts and/or

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Class B foams to whom warnings should have been provided as they were firefighters, fire departments, fire districts and/or counties and municipalities who purchased the turnouts and/or Class B foam on behalf of, and for use by, firefighters in their duties.

247. Defendants could have effectively communicated to users of the turnouts and/or Class B foams including but not limited to by package, container and gear labels, training of users, and dissemination of information materials.

248. At all relevant times, Defendants' turnouts and/or Class B foam did not contain an adequate warning or caution statement, which was necessary.

249. The Firefighter Plaintiffs were unaware of the defective and unreasonably dangerous condition of Defendants' products at a time when such products were being used for the purposes for which they were intended, and the Firefighter Plaintiffs were exposed to PFAS released from the Defendants' turnouts and/or Class B foam.

250. The Firefighter Plaintiffs did not and could not have known that the use of turnouts and/or Class B foam in the ordinary course of performing their duties as firefighters could be hazardous to their health, bio-accumulate in the blood, and cause serious health effects, including cancer - dangers which were not obvious to the Firefighter Plaintiffs.

251. As a result of their inadequate warnings, Defendants' turnouts and/or Class B foam were defective and unreasonably dangerous when they left the possession and/or control of Defendants, were distributed by Defendants, and used or worn by the Firefighter Plaintiffs.

252. The lack of adequate and sufficient warnings was a substantial factor in causing the Firefighter Plaintiffs' harm and injuries, as described herein.

253. As a result of Defendants' failure to provide adequate and sufficient warnings, Defendants are strictly liable in damages to the Firefighter Plaintiffs.

254. As a direct and proximate result of the foregoing acts and omissions, the Firefighter Plaintiffs suffered the injuries and damages described herein.

255. Defendants acted with willful or conscious disregard for the rights, health, and safety of the Firefighter Plaintiffs, as described herein, thereby entitling the Firefighter Plaintiffs

to an award of punitive damages.

COUNT THREE - NEGLIGENCE

256. This cause of action is asserted against all Defendants on behalf of all of the Firefighter Plaintiffs.

257. The Firefighter Plaintiffs incorporate by reference all prior paragraphs of this complaint as though fully set forth herein.

258. Defendants owed a duty of care towards the Firefighter Plaintiffs that was commensurate with the inherently dangerous, harmful, injurious, bio-persistent, environmentally-persistent, toxic, and bio-accumulative nature of Class B foam and turnouts containing PFAS or PFAS-containing materials.

259. Defendants had a duty to exercise reasonable care in the design, research, testing, manufacture, marketing, formulation, supply, promotion, sale, labeling, training of users, production of information materials, use and/or distribution of Class B foam and/or turnouts into the stream of commerce, including a duty of care to ensure the PFAS did not infiltrate, persist in, accumulate in the blood and/or bodies of the Firefighter Plaintiffs and including a duty to assure their products would not cause users to suffer unreasonable, dangerous side effects.

260. Defendants had a duty to exercise reasonable care to ensure that Class B foam and/or turnouts were manufactured, marketed, and sold in such a way as to ensure that the end users of Class B foam and/or turnouts were aware of the potential harm PFAS can cause to human health, and were advised to use it in such a way that would not be hazardous to their health.

261. Defendants had a duty to warn of the hazards associated with PFAS and PFAScontaining materials and were in the best position to provide adequate instructions, proper labeling, and sufficient warnings about the Class B foam and/or turnouts. However, Defendants knowingly and intentionally failed to do so.

262. Defendants failed to exercise a reasonable degree of ordinary care in the designing, researching, testing, manufacturing, formulating, marketing, testing, promotion, supply, sale, and/or distribution of their PFAS chemicals and PFAS-containing products in the regular course

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of business, in that Defendants knew or should have known that use and exposure to PFAS and PFAS-containing materials was hazardous to human health and created a high risk of unreasonable, dangerous side effects, including but not limited to severe personal injuries, as described herein.

263. Defendants also knew or should have known that the manner in which they were manufacturing, marketing, distributing, and selling Class B foam and/or turnouts containing PFAS or PFAS-containing materials was hazardous to human health, bio-accumulated in the blood, and caused serious health effects, including cancer, as set forth herein.

264. Defendants negligently and deceptively underreported, underestimated, downplayed the serious health dangers of the Class B foam and/or turnouts products.

265. Defendants negligently, carelessly and recklessly recommended application and disposal techniques for PFAS and/or for products containing PFAS that directly and proximately caused harm to the Firefighter Plaintiffs.

266. Defendants knew or should have known that firefighters working with and using Class B foam and/or turnouts products would be exposed to PFAS.

267. At all times material, the Firefighter Plaintiffs inhaled, ingested and/or absorbed dermally hazardous PFAS contaminants released from the Defendants' Class B foam and/or turnouts.

268. The Firefighter Plaintiffs' exposure to Defendant's Class B foam and/or turnouts, which were connected to and incidental to Defendants' manufacture, design, sale, supply and/or distribution of its PFAS-containing products, was harmful and substantially increased the risk of injuries to the Firefighter Plaintiffs, and did cause injuries to the Firefighter Plaintiffs.

269. Defendants knew or should have known that the manner in which they were manufacturing, marketing, distributing and selling Class B foam and/or turnouts containing PFAS or PFAS-containing materials would result in harm to the Firefighter Plaintiffs as a result of using Class B foam and/or turnouts in the ordinary course of performing the Firefighter Plaintiffs' duties as firefighters.

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270. Defendants knew, foresaw, anticipated, and/or should have foreseen, anticipated, and/or known that the design, engineering, manufacture, fabrication, sale, release, handling, use, and/or distribution of PFAS or PFAS-containing materials in Class B foam and turnouts, and/or Defendants' other acts and/or omissions as described in this complaint, could likely result in PFAS exposure to the Firefighter Plaintiffs, the persistence and accumulation of toxic and harmful PFAS in their blood and/or bodies, and cause injuries to the Firefighter Plaintiffs as herein alleged.

271. The harm from PFAS-containing turnouts and/or Class B foam to the Firefighter Plaintiffs could have been reduced or eliminated by the adoption of safer, reasonable alternative designs that were not unreasonably dangerous, that were known and available to Defendants.

272. These reasonable alternative designs or formulations of turnouts and/or Class B foam do not contain PFAS and therefore are safer for consumers, and would have reduced or prevented the Firefighter Plaintiffs' harm. These alternative designs and/or formulations were already available, practical, similar in cost, and technologically feasible, and do not interference with the performance of the products.

273. Despite knowing, anticipating, and/or foreseeing the bio-persistent, bioaccumulative, toxic, and/or otherwise harmful and/or injurious nature of PFAS materials, Defendants, their agents, servants, and/or employees, committed negligent acts and/or omissions that resulted in PFAS exposure to the Firefighter Plaintiffs, the persistence and accumulation of toxic and harmful PFAS in their blood and/or bodies, and caused injuries to the Firefighter Plaintiffs as herein alleged.

274. Defendants, through their acts and/or omissions as described in this complaint, breached their duties to the Firefighter Plaintiffs.

275. It was reasonably foreseeable to Defendants that the Firefighter Plaintiffs would likely suffer the injuries and harm described in this complaint by virtue of Defendants' breach of their duty and failure to exercise ordinary care, as described herein.

276. As a direct and proximate result of the foregoing acts and omissions, the Firefighter Plaintiffs suffered the injuries described herein, which are permanent and lasting in nature, include

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physical pain and mental anguish, the need for lifelong medical treatment, monitoring, and/or medications. But for Defendants' negligent acts and/or omissions, the Firefighter Plaintiffs would not have been injured or harmed.

277. Defendants acted with willful or conscious disregard for the rights, health, and safety of the Firefighter Plaintiffs, as described herein, thereby entitling the Firefighter Plaintiffs to an award of punitive damages.

COUNT FOUR – UNFAIR AND DECEPTIVE PRACTICES (MA. GEN. LAWS Ch. 93a, § 9)

278. This cause of action is asserted against all Defendants on behalf of all of the Firefighter Plaintiffs.

279. The Firefighter Plaintiffs incorporate by reference all prior paragraphs of this complaint as though fully set forth herein.

280. The Defendants have committed unfair and deceptive acts and practices in violation of Massachusetts' Consumer Protection Act, G.L. c. 93A, § 2(a) and regulations promulgated thereunder. These violations include, but are not limited to, Defendants' breaches of their implied warranty of merchantability, in violation of G.L. c. 93A, § 2, by manufacturing, selling and/or distributing PFAS, PFAS-containing products or materials, including Class B foam and/or turnout gear, in a defective condition that is and was unreasonably dangerous to users, including Firefighter Plaintiffs, because such PFAS or PFAS-containing materials are toxic and unreasonably dangerous to human health and the environment, and there were safer reasonable alternative designs available.

281. Defendants violated Massachusetts' Consumer Protection Act, G.L. c. 93A, § 2 by engaging in business practices that were oppressive or otherwise unconscionable.

282. Defendants' continuous and ongoing public deception, as described above, is and was intended to deceive, confuse and/or mislead users, including Firefighter Plaintiffs, as to the dangers of PFAS and/or PFAS-containing materials and products, including Class B foam and/or turnouts. Such misleading statements and representations were made to increase Defendants'

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profits and without regard for the health and safety of users, including Firefighter Plaintiffs.

283. As a proximate result of Defendants' unfair and deceptive trade practices, Firefighter Plaintiffs developed serious diseases, including cancer, and Firefighter Plaintiffs are entitled, pursuant to G.L. c. 93A, § 9, to recover the damages sought in this Complaint.

COUNT FIVE - LOSS OF CONSORTIUM

284. This cause of action is asserted against all Defendants on behalf of the Spouse Plaintiff.

285. The Spouse Plaintiff incorporates by reference all prior paragraphs of this complaint, as though fully set forth herein.

286. At all times relevant to this action, the Spouse Plaintiff Jessica Ranahan and Firefighter Plaintiff Daniel Ranahan were and are now lawfully married:

287. As alleged above, and as a result of the conduct of the Defendants, Firefighter Plaintiff Daniel Ranahan sustained severe and permanent injuries and damages.

288. As a proximate result of her husband's injuries sustained from the exposure to and/or use of Class B foam and/or turnouts in the ordinary course of performing his firefighting duties, the Spouse Plaintiff was deprived of love, companionship, comfort, care, assistance, protection, affection, society, moral support, sexual relations and conjugal fellowship, during her husband's illnesses, treatments and recoveries, which deprivation has caused, continues to cause, and in the future is expected to cause the Spouse Plaintiff emotional distress; loss of earning capacity; past, present, and future, and other injuries - the full extent of which has not yet been ascertained, but which will be stated according to proof at trial.

289. As a further direct and proximate result of the aforesaid conduct of Defendants, the Spouse Plaintiff has sustained a loss of consortium, love, society, comfort and affection, and has thereby sustained pecuniary losses, which losses will be stated according to proof at trial.

PRAYER FOR RELIEF

WHEREFORE, Plaintiffs respectfully prays that this Court grant the following relief:

(1) Compensatory damages, including but not limited to, pain, suffering, emotional

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distress, loss of enjoyment of life, and other non-economic damages in an amount according to proof at time of trial;

- (2) Compensatory damages for future damages, including but not limited to Plaintiffs' pain and suffering and for severe permanent personal injuries sustained by the Firefighter Plaintiffs, including for future health care costs, medical monitoring, and/or economic loss.
- (3) Economic damages including but not limited to medical expenses, out of pocket expenses, lost earnings and other economic damages in an amount to be determined at trial;
- (4) Punitive and/or exemplary damages for the wanton, willful, fraudulent, and reckless acts of the Defendants, who demonstrated a conscious disregard and reckless indifference for the safety and welfare of the public in general and of the Plaintiffs in particular, in an amount sufficient to punish Defendants and deter future similar conduct, to the extent allowed by applicable law;
- (5) Pre-judgment and post-judgment interest, at the legal rate, on all amounts claimed;
- (6) Attorneys' fees and costs pursuant as permitted by law;
- (7) For equitable and injunctive relief, as necessary, to ensure that Defendants refrain from continuing to harm others; and
- (8) Any such further relief as this Court deems just and proper.

DEMAND FOR JURY TRIAL

Plaintiffs hereby demand a jury trial for each cause of action for which they are entitled to

a jury trial.

Dated: February 15, 2022

Bernheim Kelley Battista & Bliss LLC

By: Walter Kelley Walter Kelley, BBO #670525 Paula Bliss, BBO #652361 wkelley@realjustice.com pbliss@realjustice.com Four Court Street Plymouth, MA 02360 Tel: 617-420-1111 Fax: 617-830-0712 Attorneys for Plaintiffs

Pritzker Levine LLP

Elizabeth C. Pritzker (to be admitted pro hac vice) Jonathan K. Levine (to be admitted pro hac vice) Bethany L. Caracuzzo (to be admitted pro hac vice) Heather P. Haggarty (to be admitted pro hac vice) Richard R. Seal (to be admitted pro hac vice) ecp@pritzkerlevine.com jkl@pritzkerlevine.com bc@pritzkerlevine.com hph@pritzkerlevine.com 1900 Powell Street, Suite 450 Emeryville, CA 94608 Tel: 415-692-0772 Attorneys for Plaintiffs

JS 44 (Rev. 04/21)	Case 1:22-cv-102	251-CHVGILDCO	VER SHEEP 90 02/	15/22 Page 1 of	2					
	. This form, approved by the	ne Judicial Conference of the	upplement the filing and service he United States in September 1 <i>THIS FORM.</i>)							
I. (a) PLAINTIFFS			DEFENDANTS							
Joseph Marchet	ti, William Bernhard	, Paul Berube, et al	al., 3M Company; AGC Chemicals Americas, Inc.; et al.,							
(b) County of Residence of	of First Listed Plaintiff <u>B</u> ACCEPT IN U.S. PLAINTIFF CA		County of Residence of First Listed Defendant <u>Ramsey County</u> (IN U.S. PLAINTIFF CASES ONLY) NOTE: IN LAND CONDEMNATION CASES, USE THE LOCATION OF THE TRACT OF LAND INVOLVED.							
		565)								
	Address, and Telephone Numbe	,	Attorneys (If Known)							
•	ernheim Kelley Batt Plymouth, MA 02360									
II. BASIS OF JURISD	-		I. CITIZENSHIP OF PH	RINCIPAL PARTIES	Place an "X" in One Box for Plaintiff					
_			(For Diversity Cases Only) and One Box for Defendant)							
Plaintiff	1 U.S. Government 3 Federal Question Plaintiff (U.S. Government Not a Party)			PTFDEFPTFDEFtizen of This State \mathbf{X} 11Incorporated or Principal Place of Business In This State44						
2 U.S. Government Defendant	× 4 Diversity (Indicate Citizenshi	ip of Parties in Item III)	Citizen of Another State	itizen of Another State 2 2 Incorporated <i>and</i> Principal Place 5 x 5 of Business In Another State						
			Citizen or Subject of a Foreign Country	eign Country						
IV. NATURE OF SUIT		•	I	Click here for: Nature of S						
CONTRACT 110 Insurance	PERSONAL INJURY	RTS PERSONAL INJURY	FORFEITURE/PENALTY 625 Drug Related Seizure	BANKRUPTCY 422 Appeal 28 USC 158	OTHER STATUTES 375 False Claims Act					
120 Marine 130 Miller Act	310 Airplane 315 Airplane Product	× 365 Personal Injury - Product Liability	of Property 21 USC 881	422 Appeal 28 USC 158 423 Withdrawal 28 USC 157	376 Qui Tam (31 USC 3729(a))					
140 Negotiable Instrument 150 Recovery of Overpayment	Liability 320 Assault, Libel &	367 Health Care/ Pharmaceutical		INTELLECTUAL PROPERTY RIGHTS	400 State Reapportionment 410 Antitrust					
& Enforcement of Judgment	Slander 330 Federal Employers'	Personal Injury Product Liability		820 Copyrights	430 Banks and Banking 450 Commerce					
152 Recovery of Defaulted	Liability	368 Asbestos Personal		830 Patent 835 Patent - Abbreviated	460 Deportation					
Student Loans (Excludes Veterans)	340 Marine 345 Marine Product	Injury Product Liability		New Drug Application	470 Racketeer Influenced and Corrupt Organizations					
153 Recovery of Overpayment	Liability	PERSONAL PROPERTY	LABOR	840 Trademark 880 Defend Trade Secrets	480 Consumer Credit					
of Veteran's Benefits 160 Stockholders' Suits	350 Motor Vehicle 355 Motor Vehicle	370 Other Fraud 371 Truth in Lending	710 Fair Labor Standards Act	Act of 2016	(15 USC 1681 or 1692) 485 Telephone Consumer					
190 Other Contract	Product Liability	380 Other Personal	720 Labor/Management	SOCIAL SECURITY	Protection Act					
195 Contract Product Liability	360 Other Personal	Property Damage	Relations 740 Railway Labor Act	861 HIA (1395ff) 862 Plack Lyng (022)	490 Cable/Sat TV					
196 Franchise	Injury 362 Personal Injury - Medical Malpractice	385 Property Damage Product Liability	751 Family and Medical Leave Act	862 Black Lung (923) 863 DIWC/DIWW (405(g)) 864 SSID Title XVI	850 Securities/Commodities/ Exchange 890 Other Statutory Actions					
REAL PROPERTY	CIVIL RIGHTS	PRISONER PETITIONS	790 Other Labor Litigation	865 RSI (405(g))	891 Agricultural Acts					
210 Land Condemnation	440 Other Civil Rights	Habeas Corpus:	791 Employee Retirement		893 Environmental Matters					
220 Foreclosure 230 Rent Lease & Ejectment	441 Voting 442 Employment	463 Alien Detainee 510 Motions to Vacate	Income Security Act	FEDERAL TAX SUITS 870 Taxes (U.S. Plaintiff	895 Freedom of Information Act					
240 Torts to Land	443 Housing/	Sentence		or Defendant)	896 Arbitration					
245 Tort Product Liability 290 All Other Real Property	Accommodations 445 Amer. w/Disabilities -	530 General 535 Death Penalty	IMMIGRATION	871 IRS—Third Party 26 USC 7609	899 Administrative Procedure Act/Review or Appeal of					
	Employment	Other:	462 Naturalization Application		Agency Decision					
	446 Amer. w/Disabilities - Other	540 Mandamus & Other 550 Civil Rights	465 Other Immigration Actions		950 Constitutionality of State Statutes					
	448 Education	555 Prison Condition	Actions		State Statutes					
		560 Civil Detainee - Conditions of								
		Confinement								
V. ORIGIN (Place an "X" is	n One Box Only)		·	•	<u>.</u>					
	te Court	Appellate Court	(specify	District Litigation						
			iling (Do not cite jurisdictional stat	utes unless diversity):						
VI. CAUSE OF ACTIO	Brief description of ca	use:								
VII DEQUESTED IN		-	icts plaintiffs have been diagnose		: C. d					
VII. REQUESTED IN COMPLAINT:	UNDER RULE 2	IS A CLASS ACTION 3, F.R.Cv.P.	DEMAND \$ 1,000,000.00	JURY DEMAND:	if demanded in complaint:					
VIII. RELATED CASI IF ANY	E(S) (See instructions):	JUDGE		DOCKET NUMBER						
DATE		SIGNATURE OF ATTOF	RNEY OF RECORD							
February 15, 2022		/s/ Walter Kelley								
FOR OFFICE USE ONLY		,								
RECEIPT # AM	IOUNT	APPLYING IFP	JUDGE	MAG. JUI	DGE					

INSTRUCTIONS FOR ATTORNEYS COMPLETING CIVIL COVER SHEET FORM JS 44

Authority For Civil Cover Sheet

The JS 44 civil cover sheet and the information contained herein neither replaces nor supplements the filings and service of pleading or other papers as required by law, except as provided by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required for the use of the Clerk of Court for the purpose of initiating the civil docket sheet. Consequently, a civil cover sheet is submitted to the Clerk of Court for each civil complaint filed. The attorney filing a case should complete the form as follows:

- **I.(a)** Plaintiffs-Defendants. Enter names (last, first, middle initial) of plaintiff and defendant. If the plaintiff or defendant is a government agency, use only the full name or standard abbreviations. If the plaintiff or defendant is an official within a government agency, identify first the agency and then the official, giving both name and title.
- (b) County of Residence. For each civil case filed, except U.S. plaintiff cases, enter the name of the county where the first listed plaintiff resides at the time of filing. In U.S. plaintiff cases, enter the name of the county in which the first listed defendant resides at the time of filing. (NOTE: In land condemnation cases, the county of residence of the "defendant" is the location of the tract of land involved.)
- (c) Attorneys. Enter the firm name, address, telephone number, and attorney of record. If there are several attorneys, list them on an attachment, noting in this section "(see attachment)".

II. Jurisdiction. The basis of jurisdiction is set forth under Rule 8(a), F.R.Cv.P., which requires that jurisdictions be shown in pleadings. Place an "X" in one of the boxes. If there is more than one basis of jurisdiction, precedence is given in the order shown below. United States plaintiff. (1) Jurisdiction based on 28 U.S.C. 1345 and 1348. Suits by agencies and officers of the United States are included here. United States defendant. (2) When the plaintiff is suing the United States, its officers or agencies, place an "X" in this box. Federal question. (3) This refers to suits under 28 U.S.C. 1331, where jurisdiction arises under the Constitution of the United States, an amendment

to the Constitution, an act of Congress or a treaty of the United States. In cases where the U.S. is a party, the U.S. plaintiff or defendant code takes precedence, and box 1 or 2 should be marked.

Diversity of citizenship. (4) This refers to suits under 28 U.S.C. 1332, where parties are citizens of different states. When Box 4 is checked, the citizenship of the different parties must be checked. (See Section III below; NOTE: federal question actions take precedence over diversity cases.)

- **III. Residence (citizenship) of Principal Parties.** This section of the JS 44 is to be completed if diversity of citizenship was indicated above. Mark this section for each principal party.
- IV. Nature of Suit. Place an "X" in the appropriate box. If there are multiple nature of suit codes associated with the case, pick the nature of suit code that is most applicable. Click here for: <u>Nature of Suit Code Descriptions</u>.
- V. Origin. Place an "X" in one of the seven boxes.

Original Proceedings. (1) Cases which originate in the United States district courts.

Removed from State Court. (2) Proceedings initiated in state courts may be removed to the district courts under Title 28 U.S.C., Section 1441. Remanded from Appellate Court. (3) Check this box for cases remanded to the district court for further action. Use the date of remand as the filing date.

Reinstated or Reopened. (4) Check this box for cases reinstated or reopened in the district court. Use the reopening date as the filing date. Transferred from Another District. (5) For cases transferred under Title 28 U.S.C. Section 1404(a). Do not use this for within district transfers or multidistrict litigation transfers.

Multidistrict Litigation – Transfer. (6) Check this box when a multidistrict case is transferred into the district under authority of Title 28 U.S.C. Section 1407.

Multidistrict Litigation – Direct File. (8) Check this box when a multidistrict case is filed in the same district as the Master MDL docket. **PLEASE NOTE THAT THERE IS NOT AN ORIGIN CODE 7.** Origin Code 7 was used for historical records and is no longer relevant due to changes in statute.

- VI. Cause of Action. Report the civil statute directly related to the cause of action and give a brief description of the cause. Do not cite jurisdictional statutes unless diversity. Example: U.S. Civil Statute: 47 USC 553 Brief Description: Unauthorized reception of cable service.
- VII. Requested in Complaint. Class Action. Place an "X" in this box if you are filing a class action under Rule 23, F.R.Cv.P. Demand. In this space enter the actual dollar amount being demanded or indicate other demand, such as a preliminary injunction. Jury Demand. Check the appropriate box to indicate whether or not a jury is being demanded.
- VIII. Related Cases. This section of the JS 44 is used to reference related pending cases, if any. If there are related pending cases, insert the docket numbers and the corresponding judge names for such cases.

Date and Attorney Signature. Date and sign the civil cover sheet.

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UNITED STATES DISTRICT COURT DISTRICT OF MASSACHUSETTS

1. Title of case (name of first party on each side only) Joseph Marchetti, et al., v. 3M Company, et al.,

II.

- 2. Category in which the case belongs based upon the numbered nature of suit code listed on the civil cover sheet. (See local rule 40.1(a)(1)).
 - I. 160, 400, 410, 441, 535, 830*, 835*, 850, 880, 891, 893, R.23, REGARDLESS OF NATURE OF SUIT.
 - 110, 130, 190, 196, 370, 375, 376, 440, 442, 443, 445, 446, 448, 470, 751, 820*, 840*, 895, 896, 899.
 - 120, 140, 150, 151, 152, 153, 195, 210, 220, 230, 240, 245, 290, 310, 315, 320, 330, 340, 345, 350, 355, 360, 362, 365, 367, 368, 371, 380, 385, 422, 423, 430, 450, 460, 462, 463, 465, 480, 485, 490, 510, 530, 540, 550, 555, 560, 625, 690, 710, 720, 740, 790, 791, 861-865, 870, 871, 890, 950.
 *Also complete AO 120 or AO 121. for patent, trademark or copyright cases.
- 3. Title and number, if any, of related cases. (See local rule 40.1(g)). If more than one prior related case has been filed in this district please indicate the title and number of the first filed case in this court.

4.	Has a prior action	between the same pa	arties and based	on the same claim	ever bee	e <u>n file</u> d in th	nis cou	rt?		
					YES		NO			
5.	Does the complai §2403)	nt in this case question	on the constitutio	nality of an act of c	ongress	s affecting t	he pub	lic interest?	(See 28 USC	
	- ,	YES			NO	✓				
	If so, is the U.S.A. or an officer, agent or employee of the U.S. a party?				YES		NO			
6.	6. Is this case required to be heard and determined by a district court of three judges pursuant to title 28_USC §2284?									
					YES		NO	~		
7.		es in this action, excl governmental agencie								
	А.	If yes, in which divis	i <u>on d</u> o <u>all</u> of the i	non-governmental	<u>parti</u> es r	eside?				
		Eastern Division		Central Division			West	ern Division		
	В.	lf no, in which divisi residing in Massach		ty of the plaintiffs o	r the on	ly parties, e	xcludi	ng governmer	ntal agencies,	
		Eastern Division	~	Central Division			West	ern Division		
8.	8. If filing a Notice of Removal - are there any motions pending in the state court requiring the attention of this Court? (If yes, submit a separate sheet identifying the motions)									
	Submit a Separate	sheet identifying the	motions)		YES		NO			
(PLEASE TYPE OR PRINT)										
ATTORNEY'S NAME Walter Kelley, Bernheim Kelley Battista & Bliss										
ADD	RESS 4 Court S	treet, Plymouth, M	A 02360							
TEL	EPHONE NO. (61)	7) 420-1111								

(CategoryForm11-2020.wpd)