The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 1 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 1 of 99



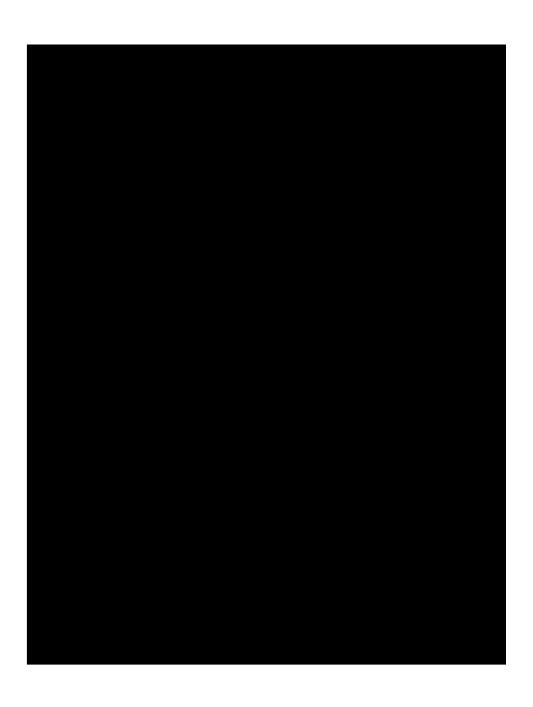
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 2 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 2 of 99

Table of contents 0 Summary 4 1 Executive summary 6 2 24 3 approach and project management methodology 29 4 45 5 53 6 59 7 67 8 Key program requirements 69 9 services 74 10 Clarification Questions 76 11 90 12 92 13 97

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 3 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 3 of 99



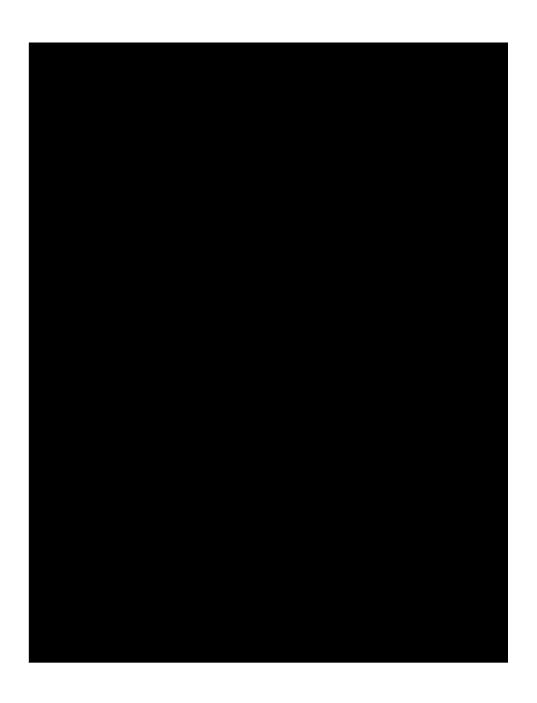
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 4 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 4 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 5 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 5 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 6 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 6 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 7 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 7 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 8 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 8 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 9 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 9 of 99



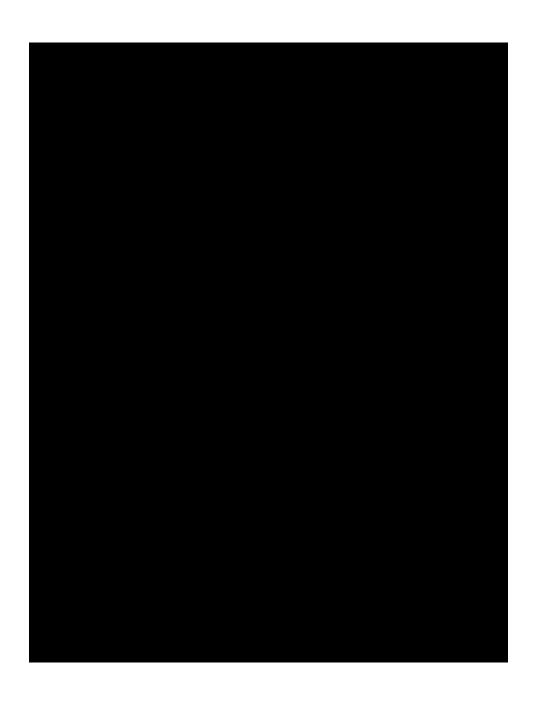
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 10 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 10 of 99



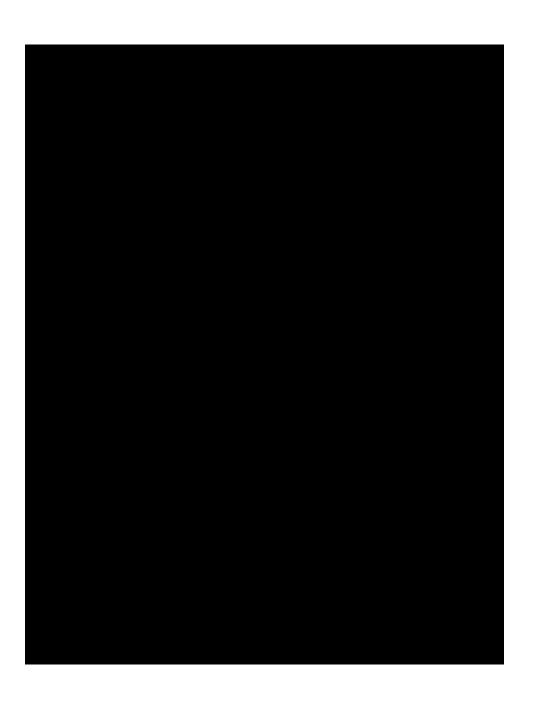
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 11 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 11 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 12 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 12 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 13 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 13 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 14 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 14 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 15 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 15 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 16 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 16 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 17 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 17 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 18 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 18 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 19 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 19 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 20 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 20 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 21 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 21 of 99



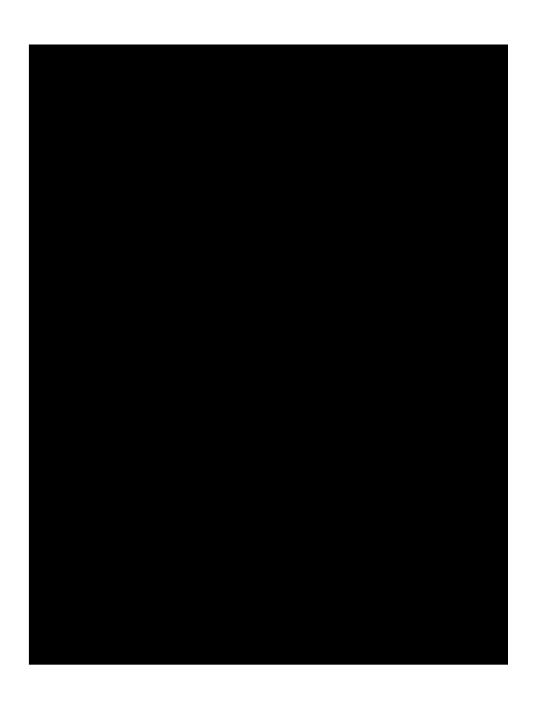
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 22 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 22 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 23 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 23 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 24 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 24 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 25 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 25 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 26 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 26 of 99



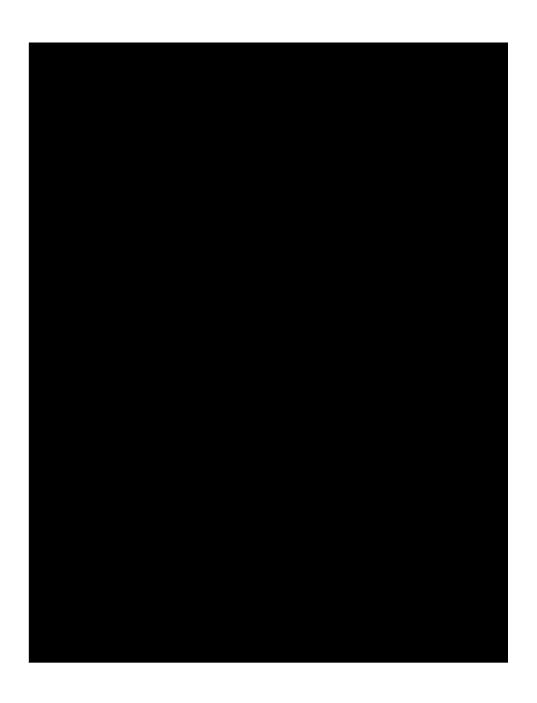
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 27 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 27 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 28 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 28 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 29 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 29 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 30 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 30 of 99



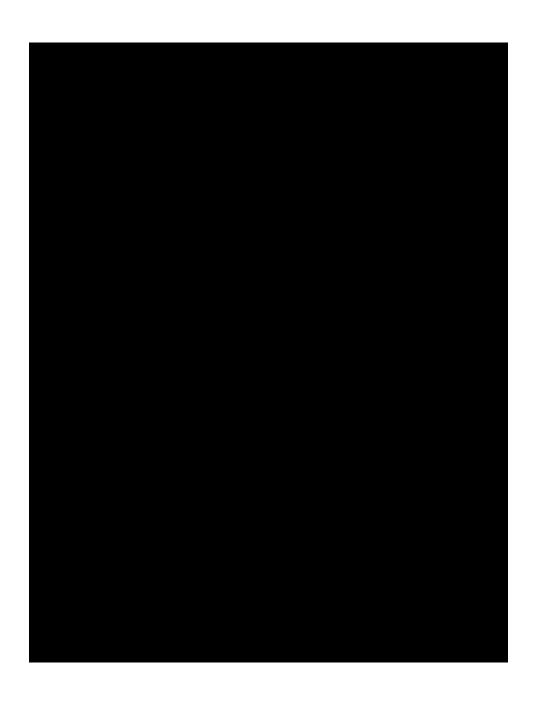
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 31 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 31 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 32 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 32 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 33 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 33 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 34 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 34 of 99



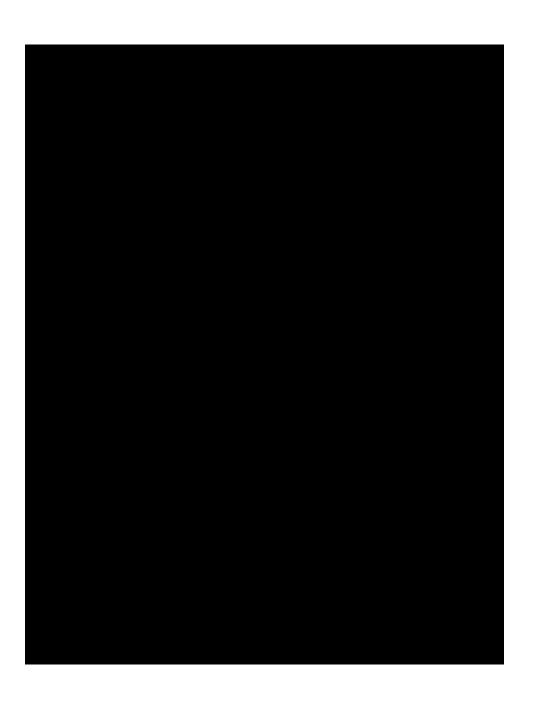
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 35 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 35 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 36 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 36 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 37 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 37 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 38 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 38 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 39 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 39 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 40 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 40 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 41 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 41 of 99



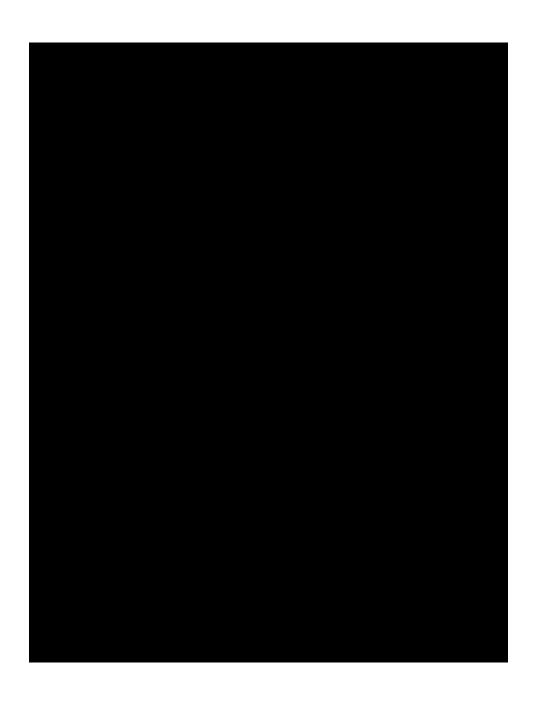
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 42 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 42 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 43 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 43 of 99



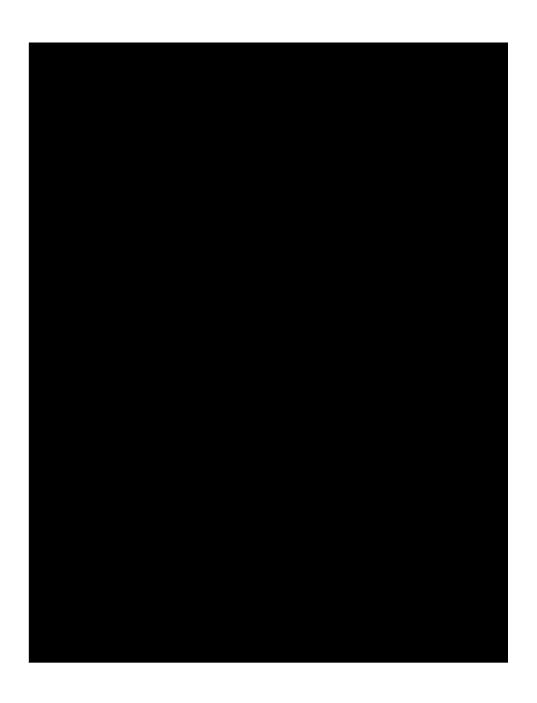
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 44 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 44 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 45 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 45 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 46 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 46 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 47 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 47 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 48 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 48 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 49 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 49 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 50 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 50 of 99



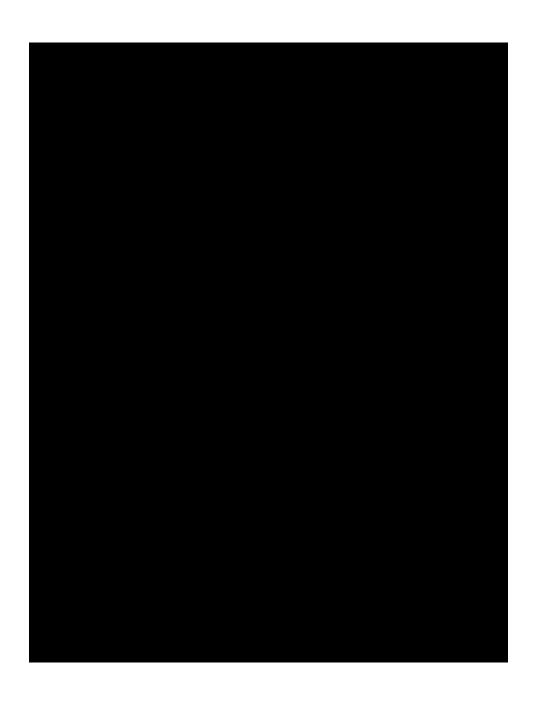
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 51 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 51 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 52 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 52 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 53 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 53 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 54 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 54 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 55 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 55 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 56 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 56 of 99



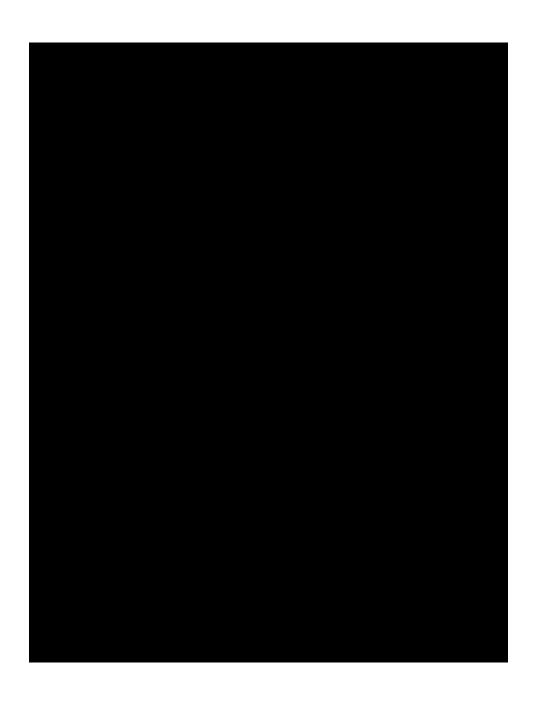
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 57 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 57 of 99



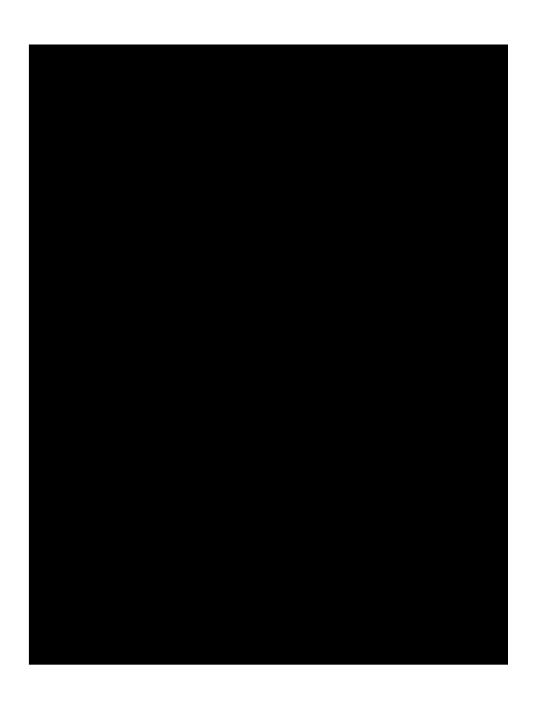
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 58 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 58 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 59 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 59 of 99



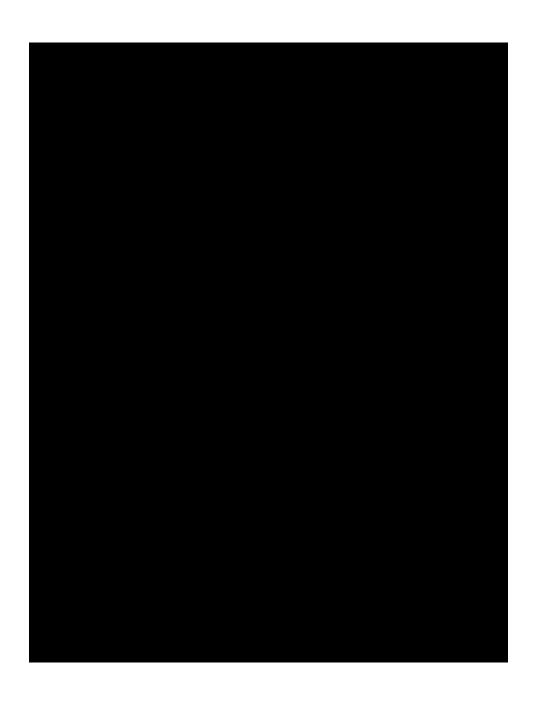
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 60 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 60 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 61 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 61 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 62 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 62 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 63 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 63 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 64 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 64 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 65 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 65 of 99



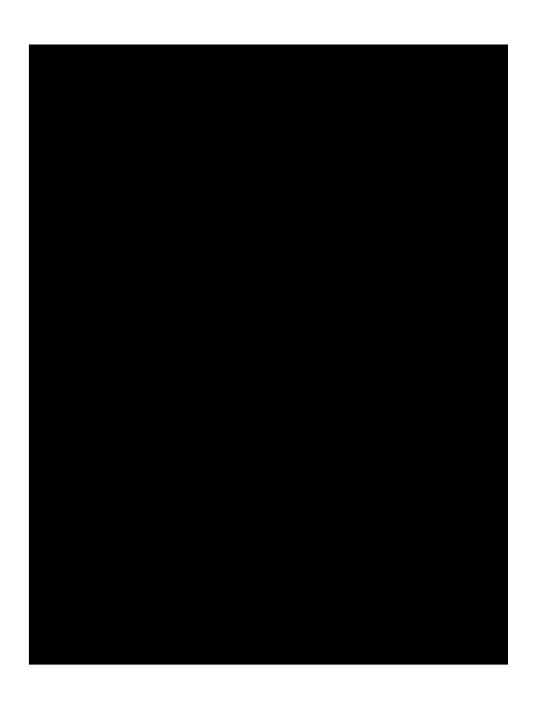
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 66 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 66 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 67 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 67 of 99



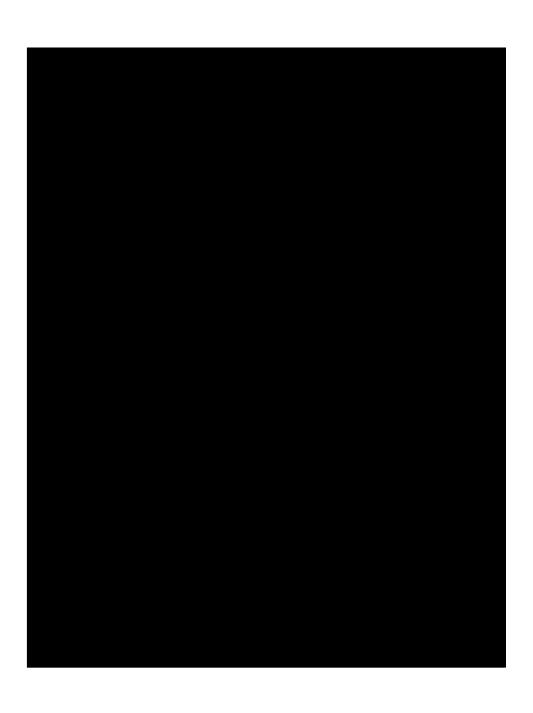
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 68 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 68 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 69 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 69 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 70 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 70 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 71 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 71 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 72 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 72 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 73 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 73 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 74 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 74 of 99



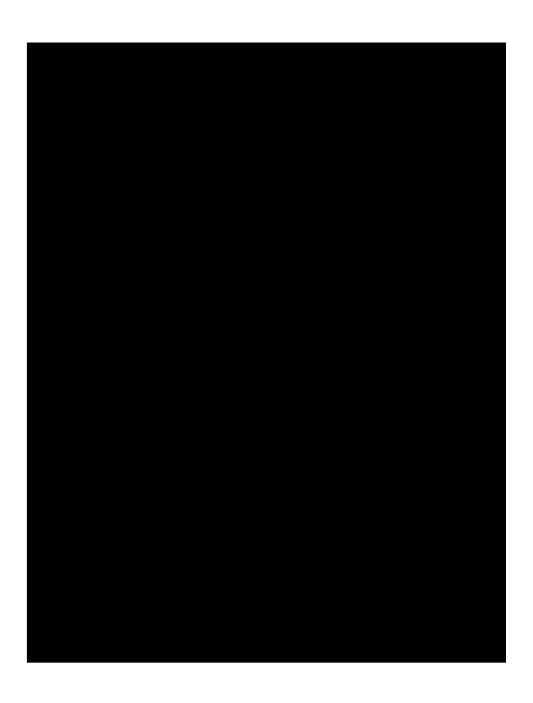
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 75 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 75 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 76 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 76 of 99



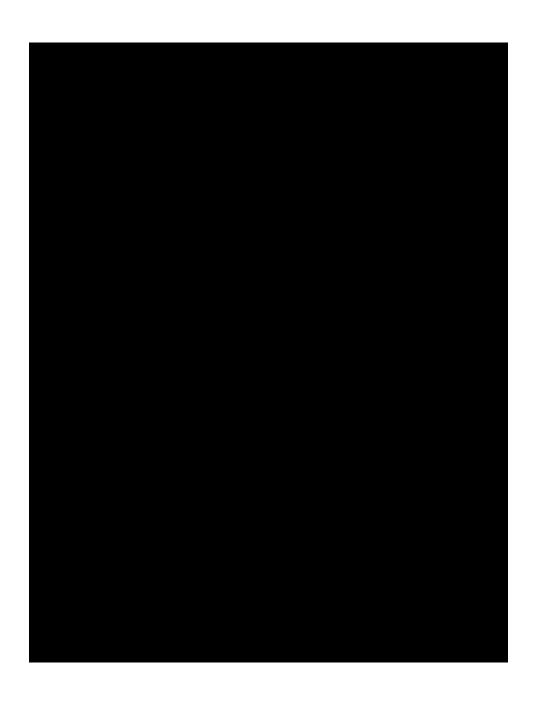
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 77 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 77 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 78 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 78 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 79 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 79 of 99



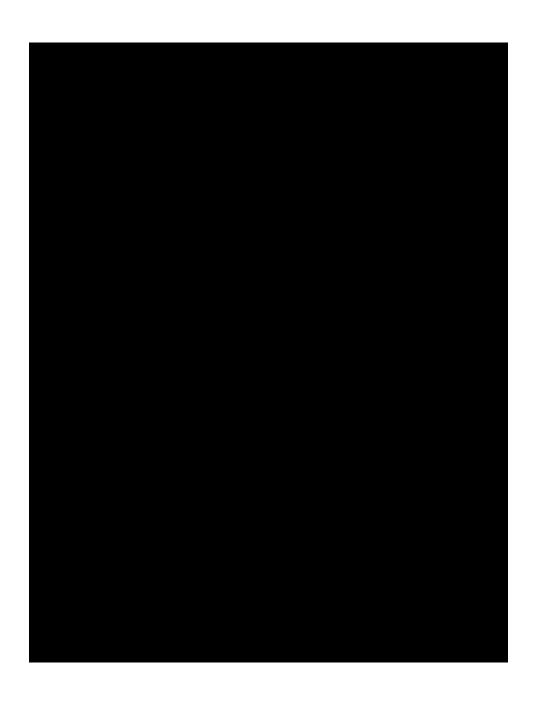
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 80 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 80 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 81 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 81 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 82 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 82 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 83 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 83 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 84 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 84 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 85 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 85 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 86 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 86 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 87 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 87 of 99



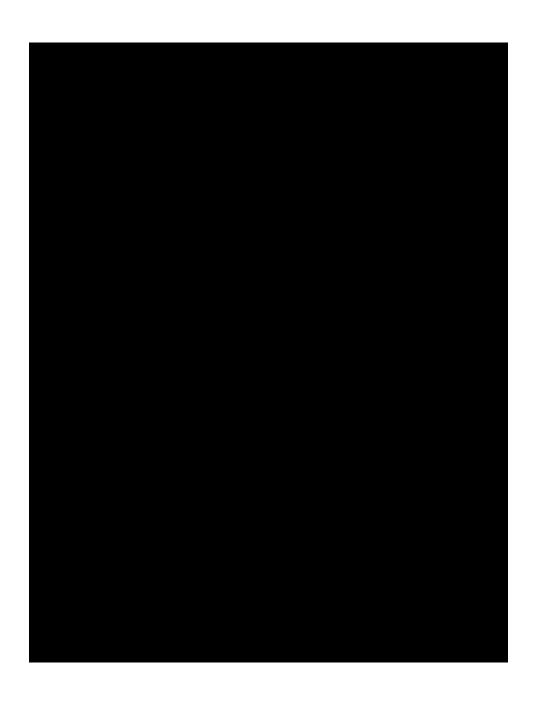
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 88 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 88 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 89 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 89 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 90 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 90 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 91 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 91 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 92 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 92 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 93 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 93 of 99



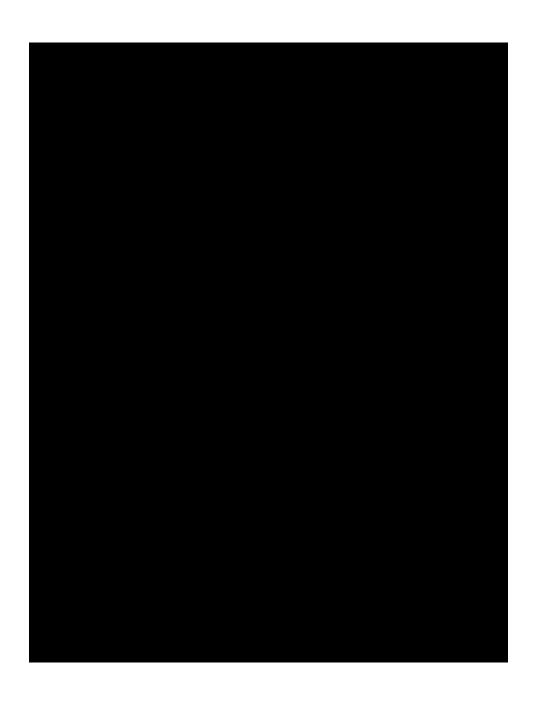
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 94 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 94 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 95 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 95 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 96 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 96 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 97 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 97 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 98 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 98 of 99



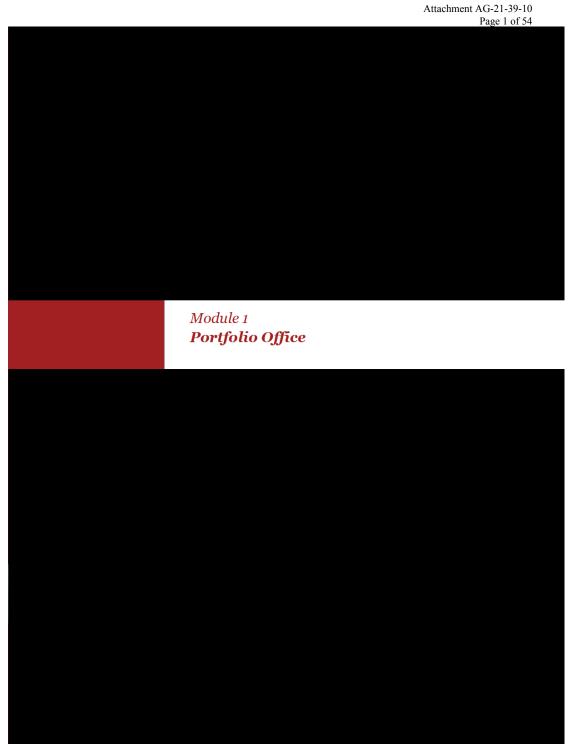
The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-220 Page 99 of 99

Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170 Attachment AG-21-39-9 Page 99 of 99



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 1 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 2 of 54

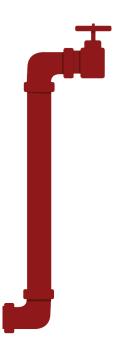
Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED**

D.P.U. 17-170

Attachment AG-21-39-10

Page 2 of 54

Table of contents



0.	Summary of revisions2
1.	Key and critical support personnel4
2.	Project plan,6
3.	Resource planning and staffing
4.	Module initiatives
5.	Proposed service24
6.	Key program requirements26
<i>7</i> .	assumptions29
8.	Estimation factors used for assumptions .33
9.	37
10.	
11.	Clarification questions42
12.	47
13.	51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 3 of 54

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-10

Page 3 of 54

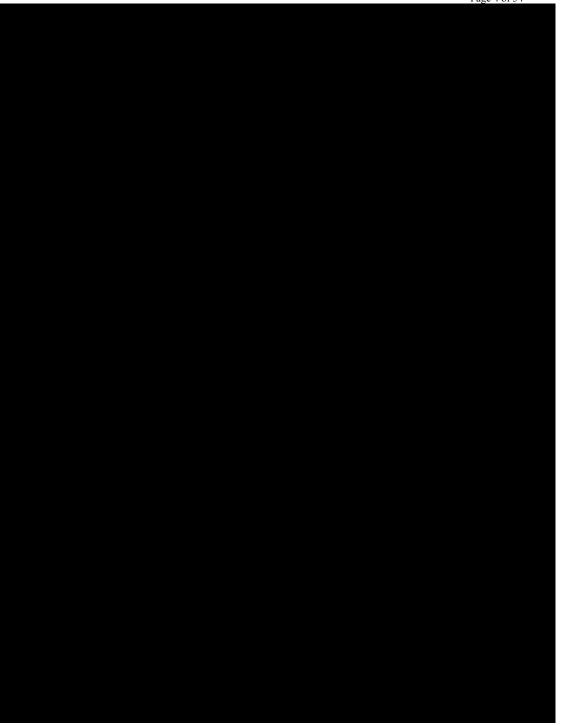


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 4 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-10

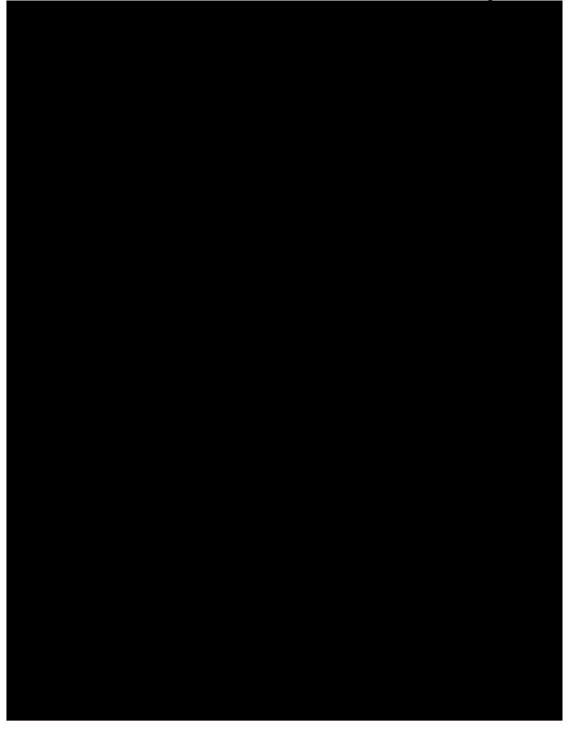
Page 4 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 5 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

Page 5 of 54

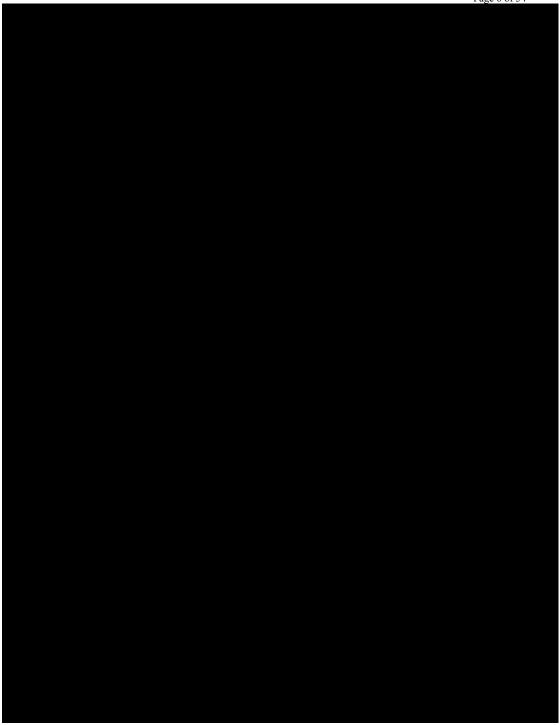


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 6 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-10

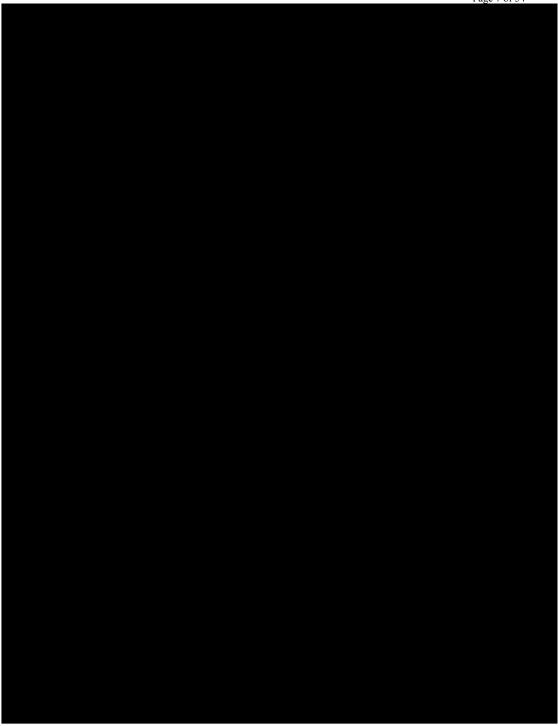
Page 6 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 7 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

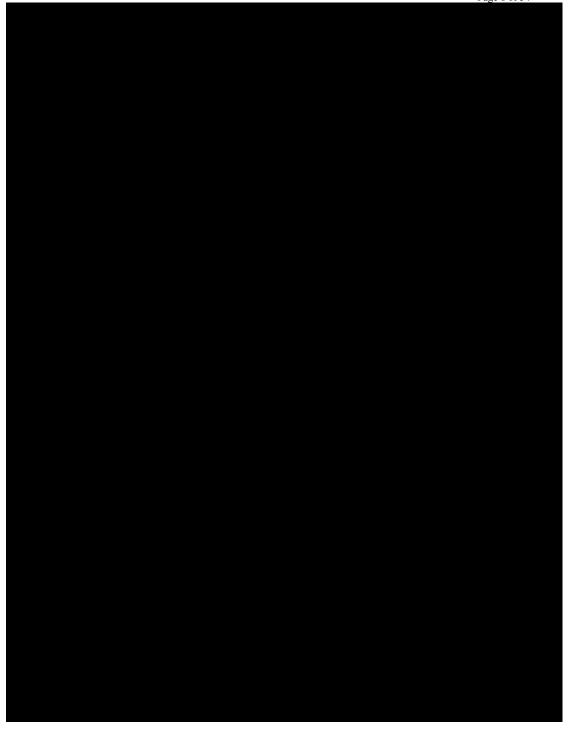
Page 7 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 8 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-10 Page 8 of 54

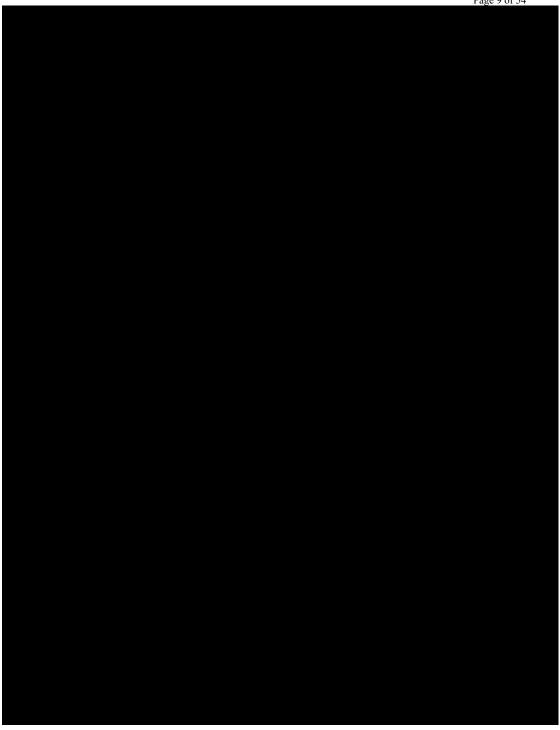


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 9 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-10

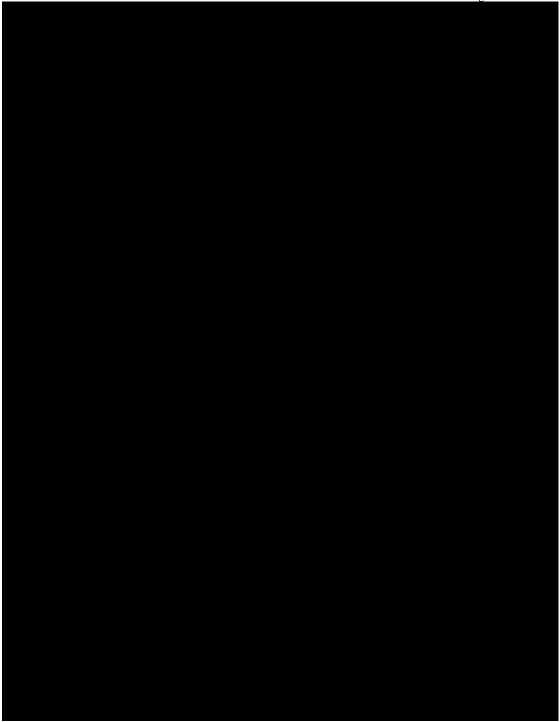
Page 9 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 10 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

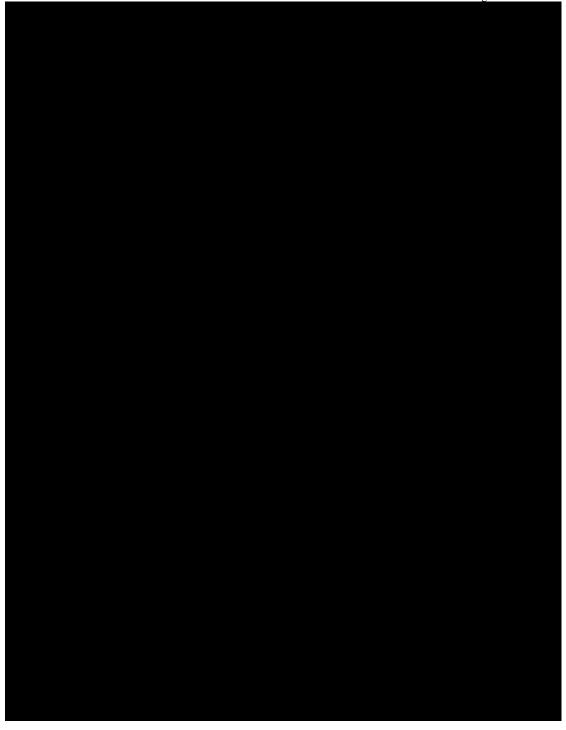
Page 10 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 11 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-10 Page 11 of 54

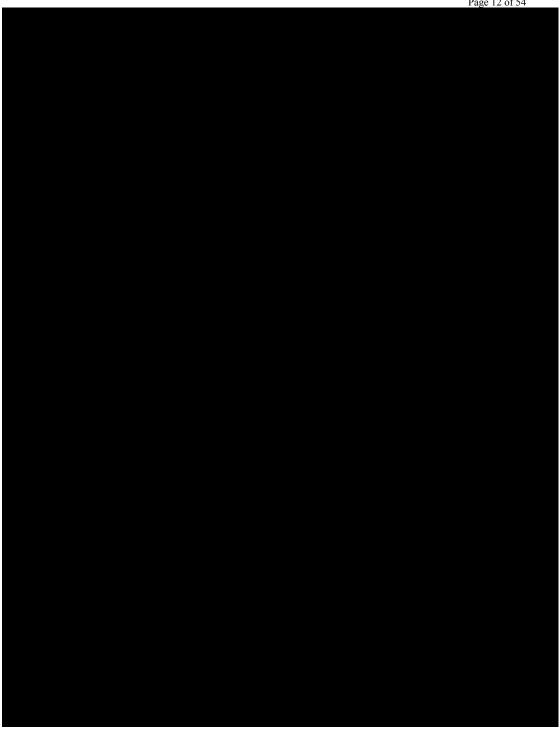


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 12 of 54

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170

Attachment AG-21-39-10

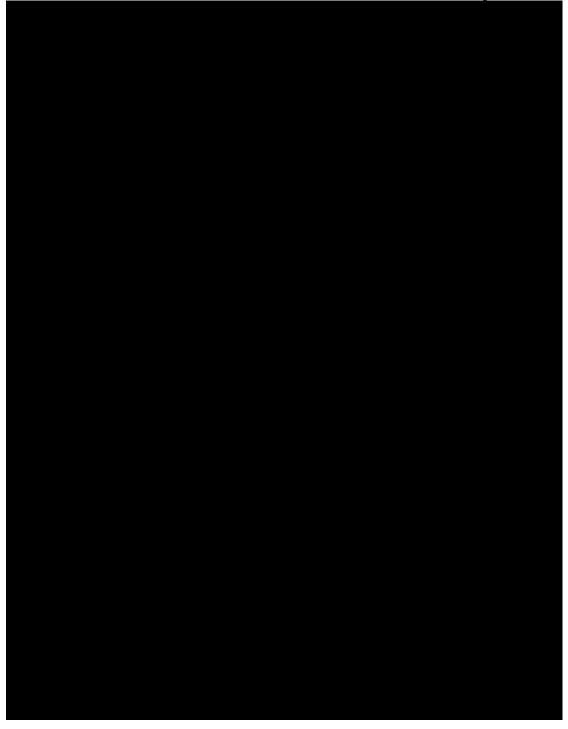
Page 12 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 13 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

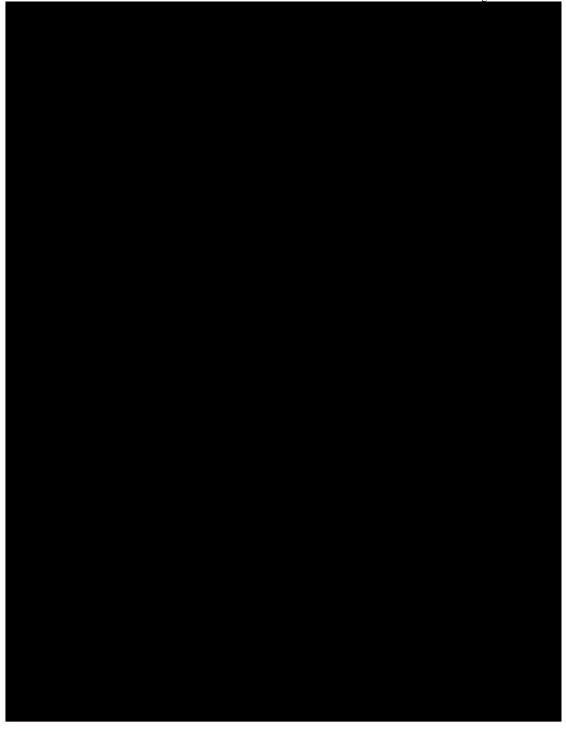
Page 13 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 14 of 54

Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

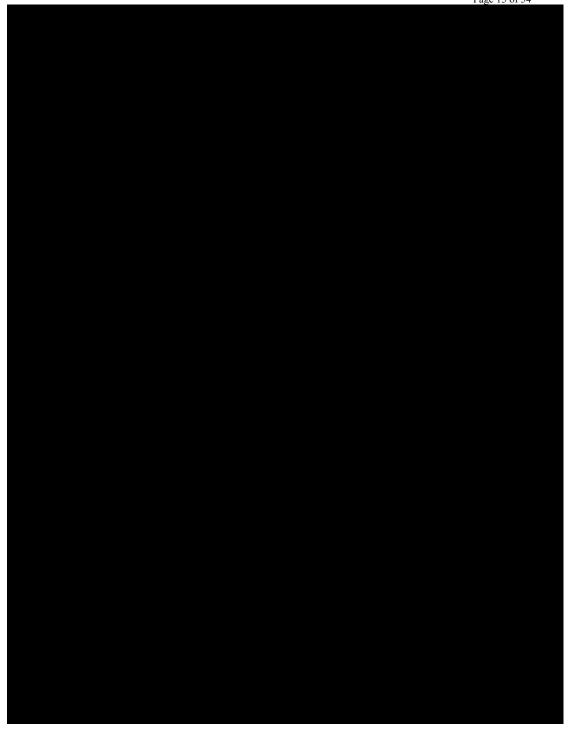
Attachment AG-21-39-10 Page 14 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 15 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

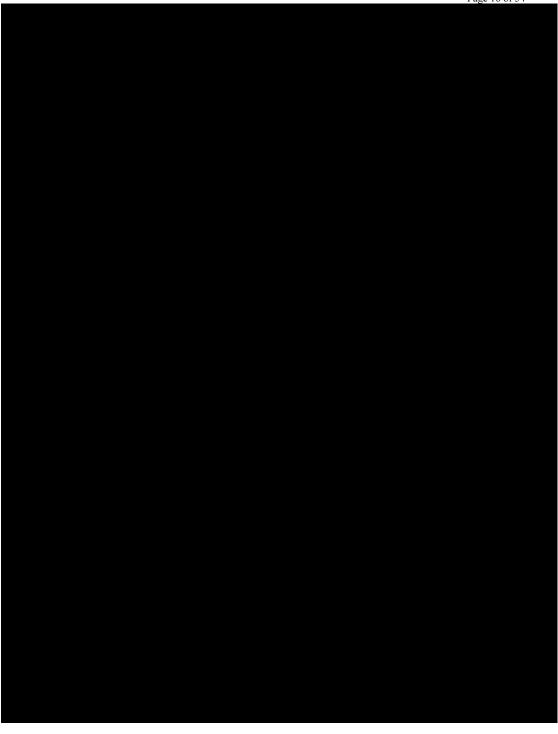
Attachment AG-21-39-10 Page 15 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 16 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

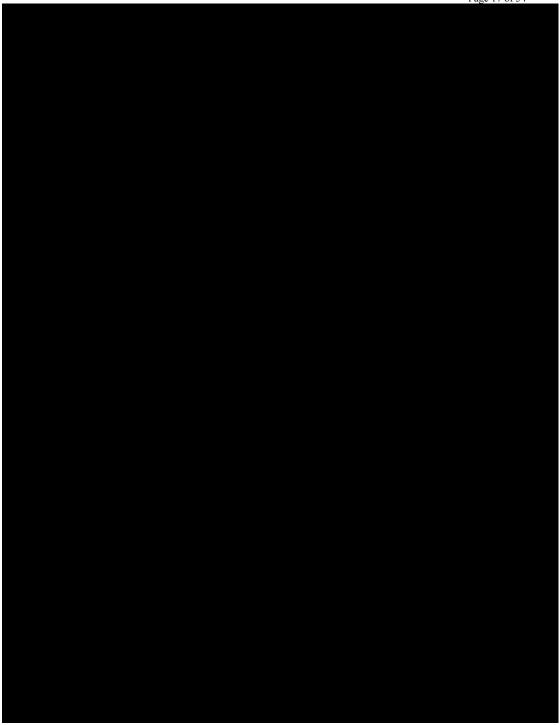
Attachment AG-21-39-10 Page 16 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 17 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

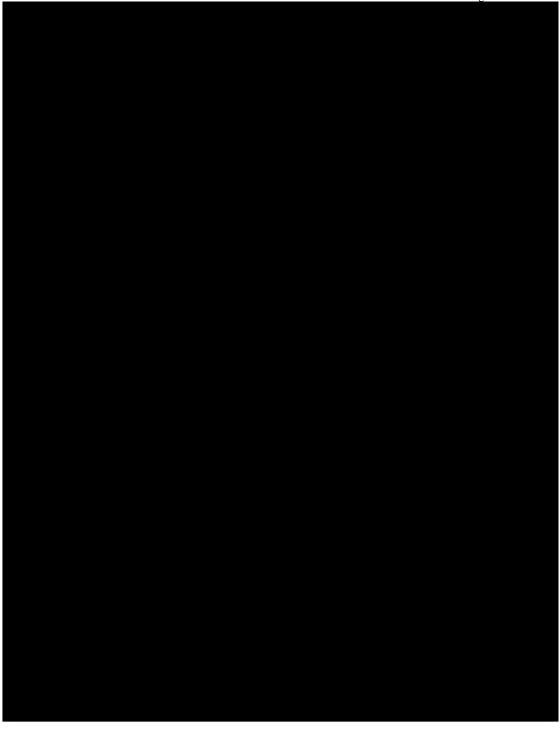
Page 17 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 18 of 54

Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

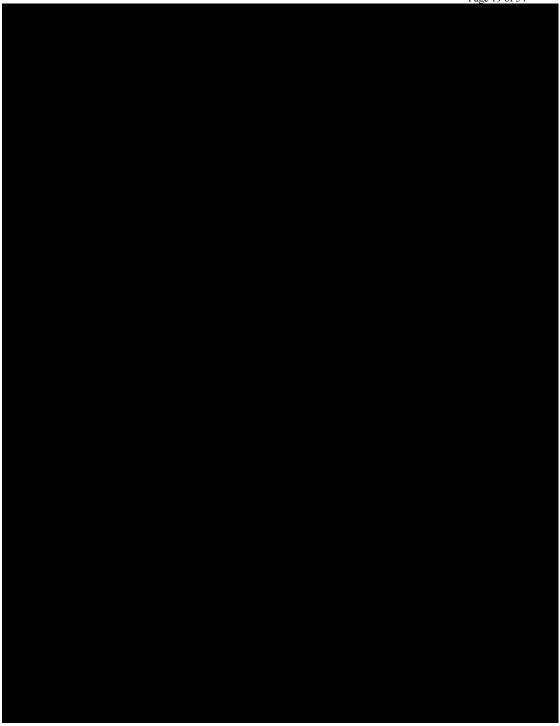
Attachment AG-21-39-10 Page 18 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 19 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

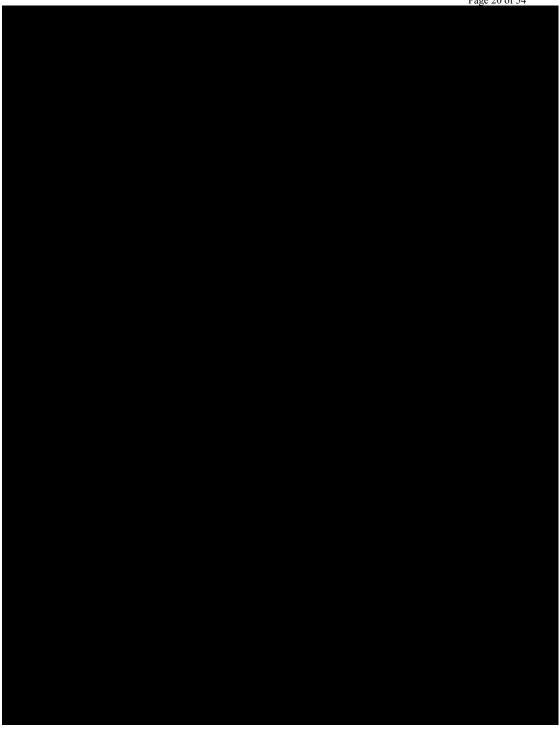
Page 19 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 20 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

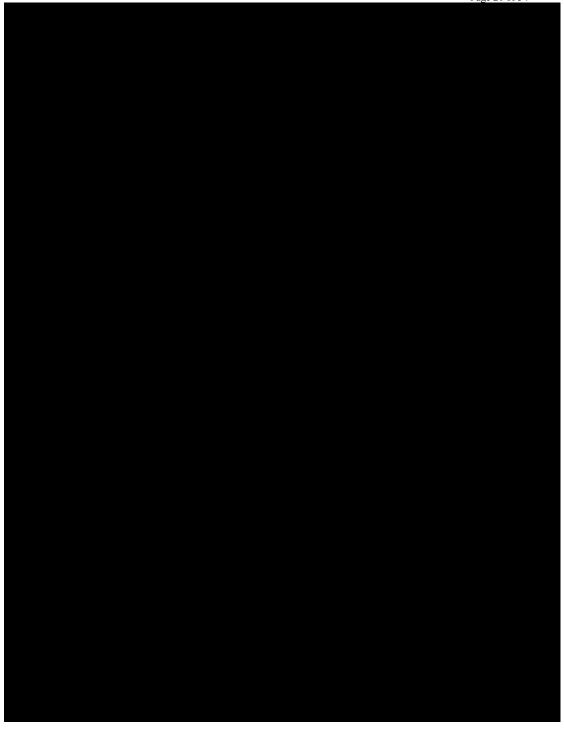
Page 20 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 21 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

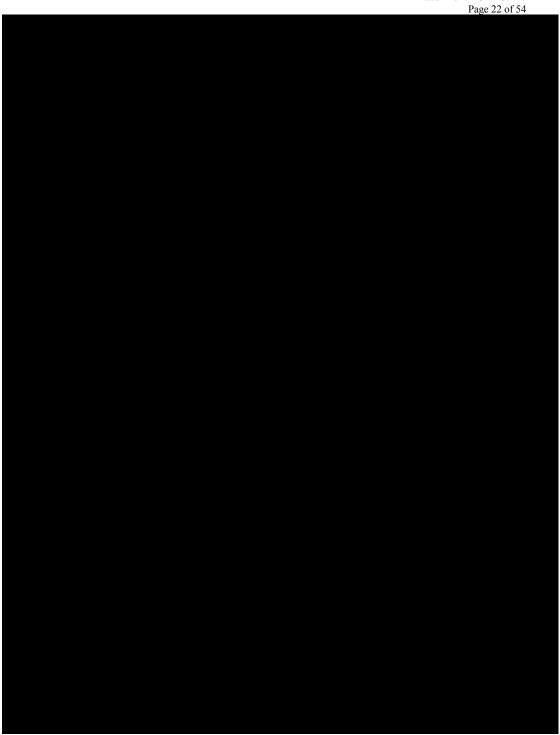
Attachment AG-21-39-10 Page 21 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 22 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

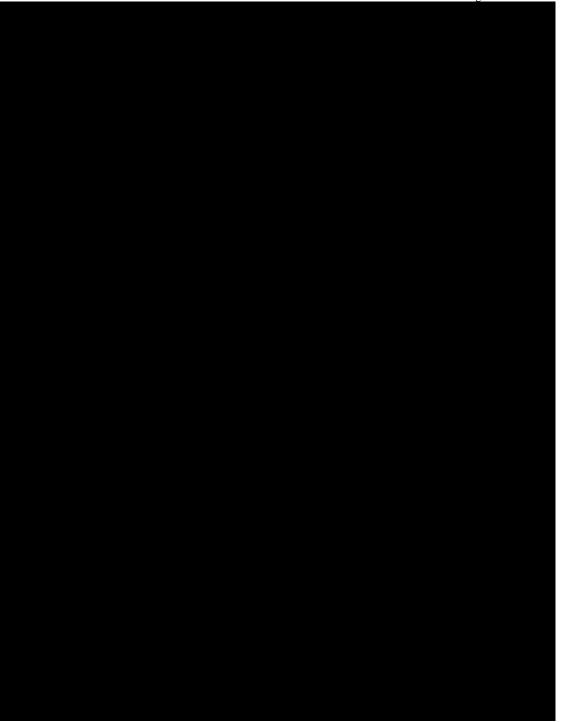
Attachment AG-21-39-10



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 23 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

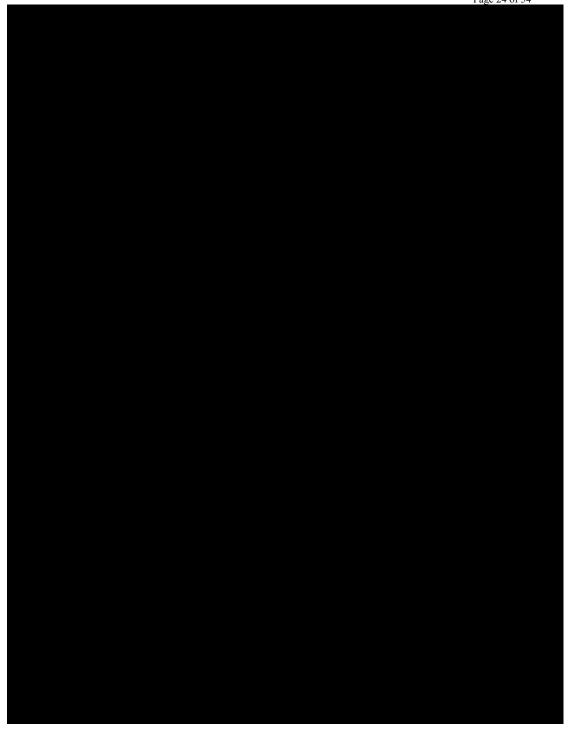
Page 23 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 24 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

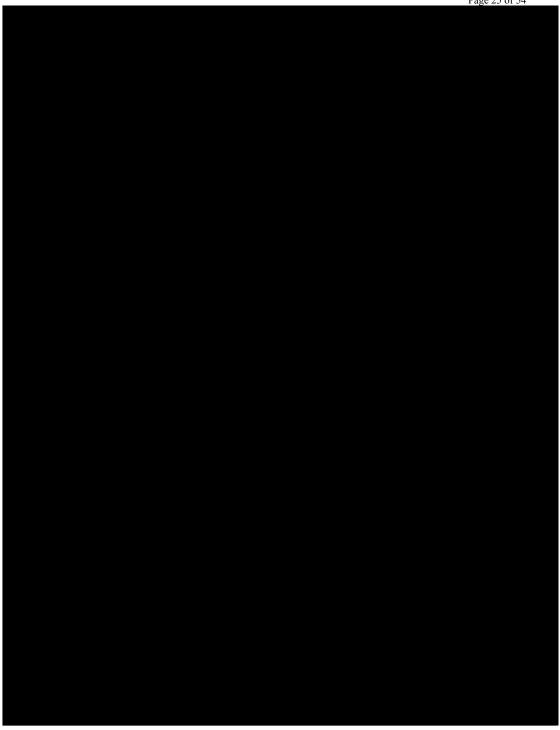
Attachment AG-21-39-10 Page 24 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 25 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

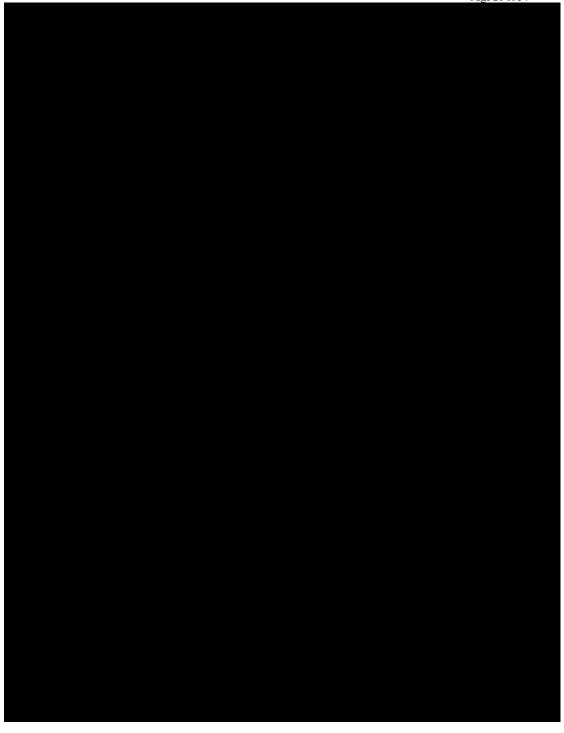
Page 25 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 26 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

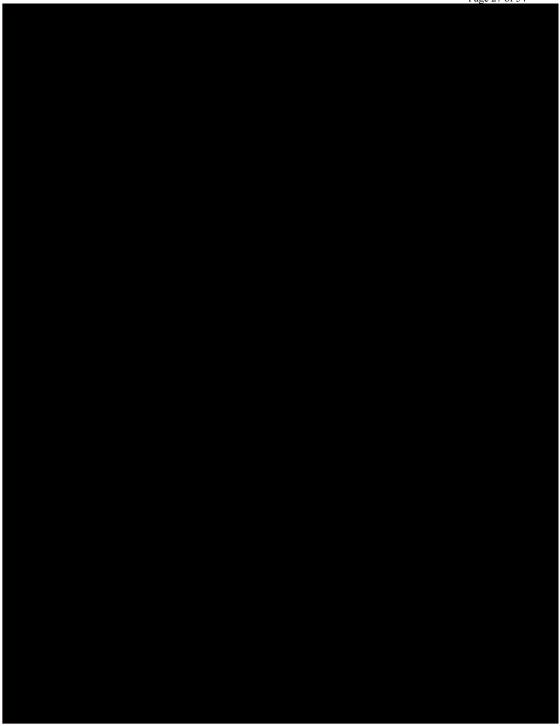
Attachment AG-21-39-10 Page 26 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 27 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

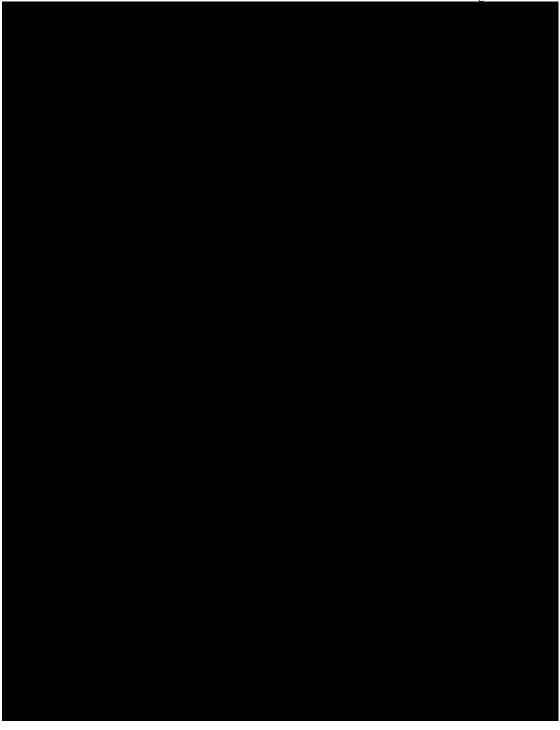
Page 27 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 28 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

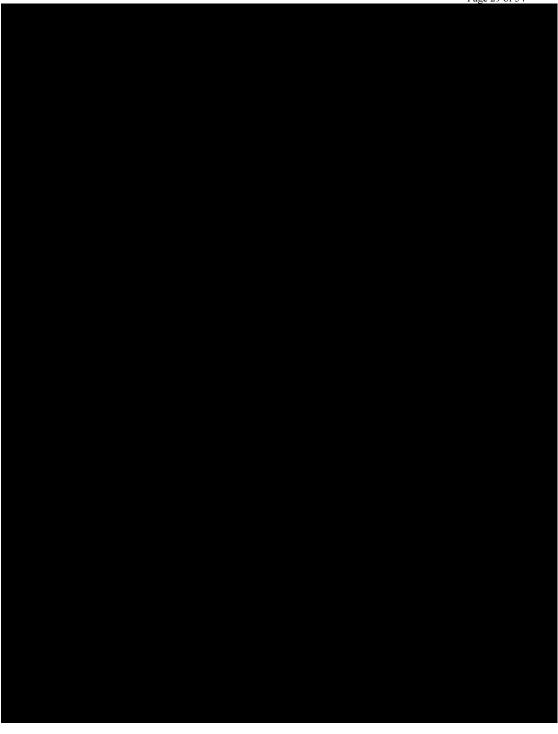
Page 28 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 29 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

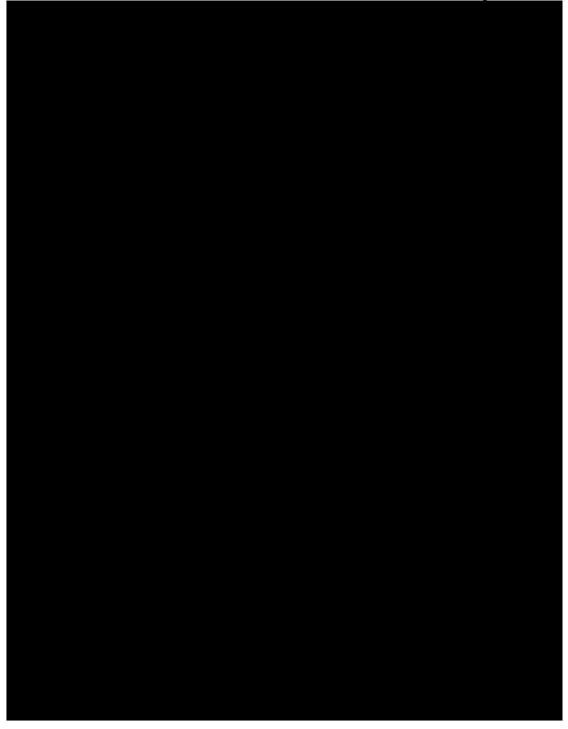
Attachment AG-21-39-10 Page 29 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 30 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

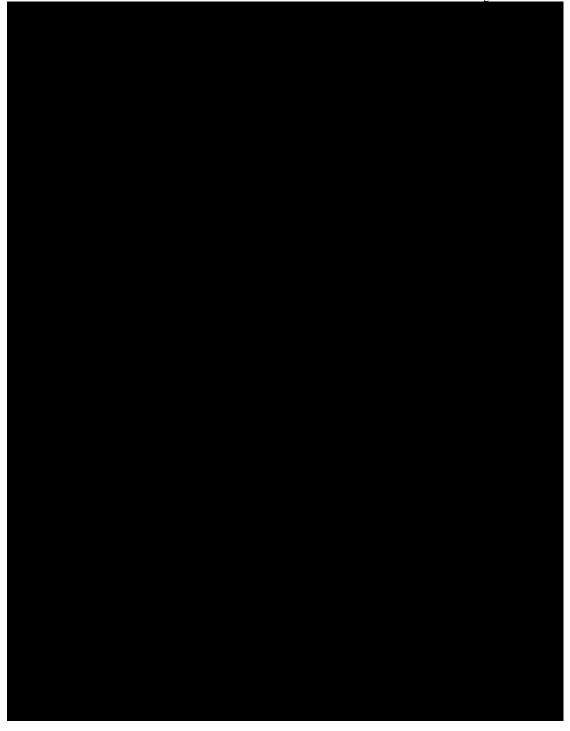
Page 30 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 31 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

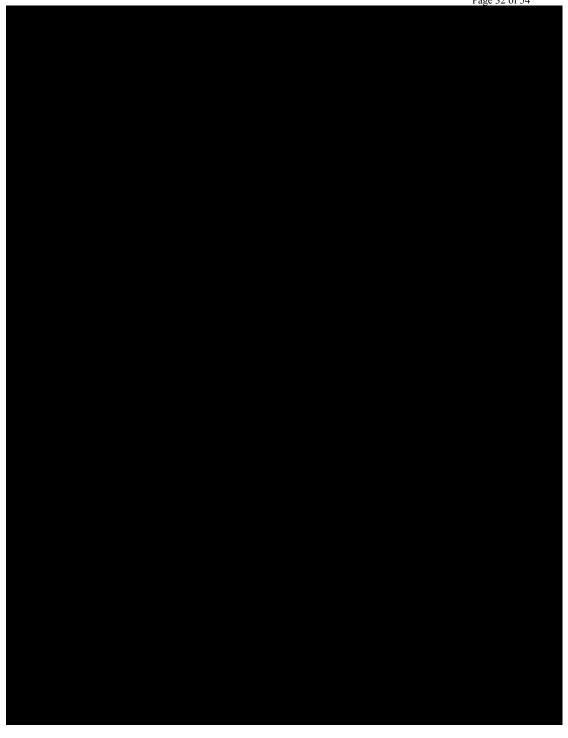
Page 31 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 32 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

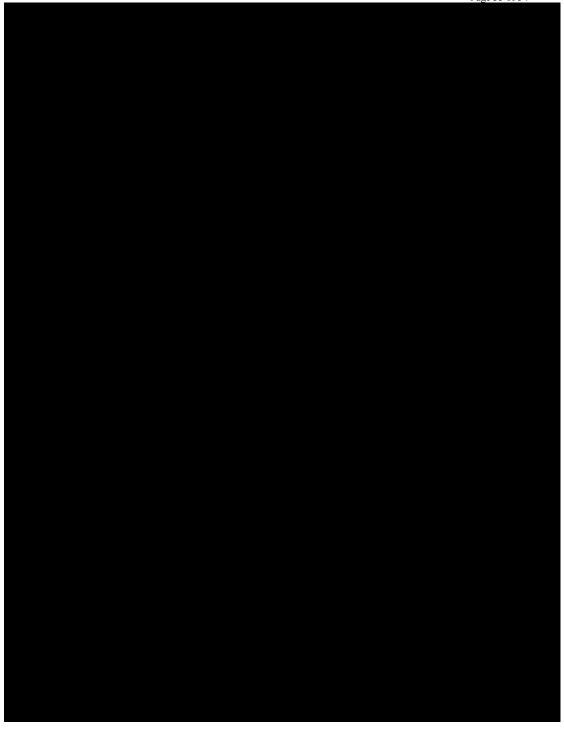
Attachment AG-21-39-10 Page 32 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 33 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

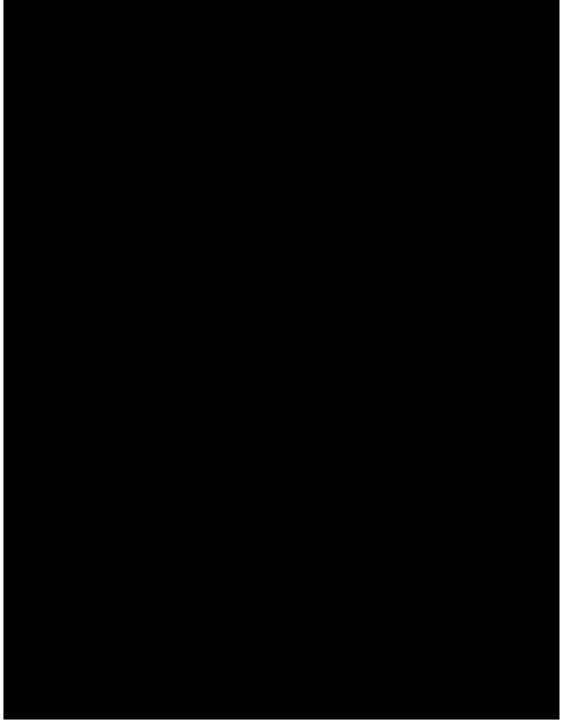
Attachment AG-21-39-10 Page 33 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 34 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

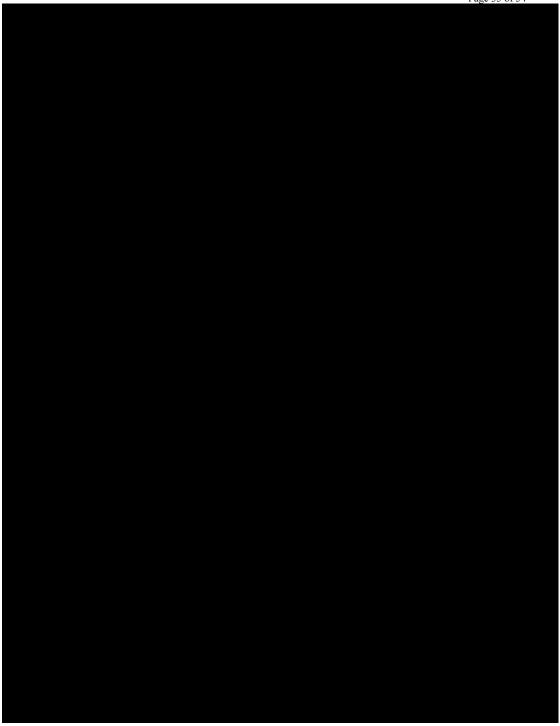
Page 34 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 35 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

Page 35 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 36 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

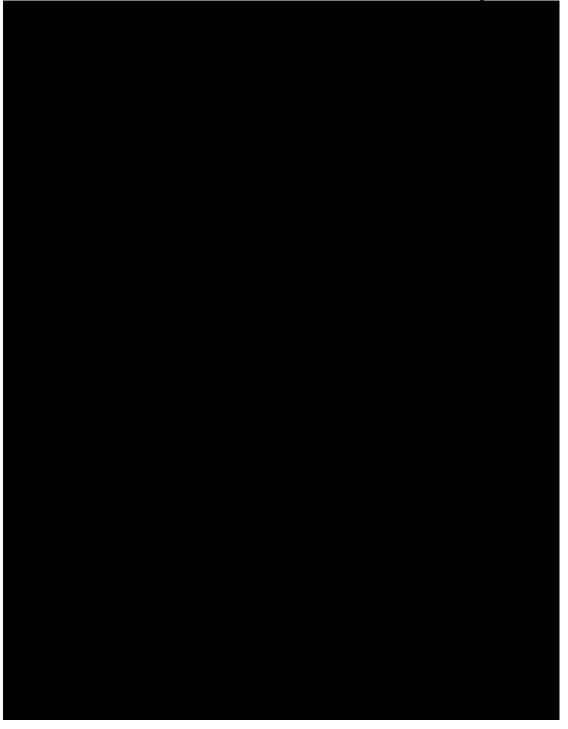
Page 36 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 37 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

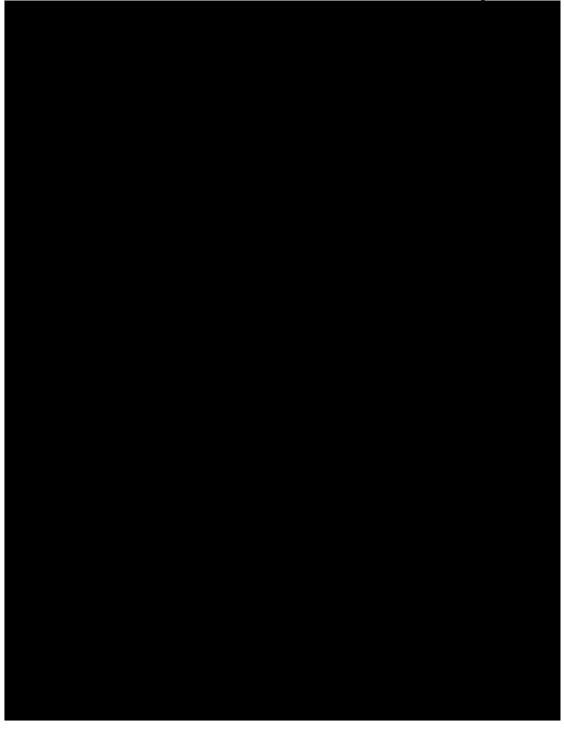
Page 37 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 38 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

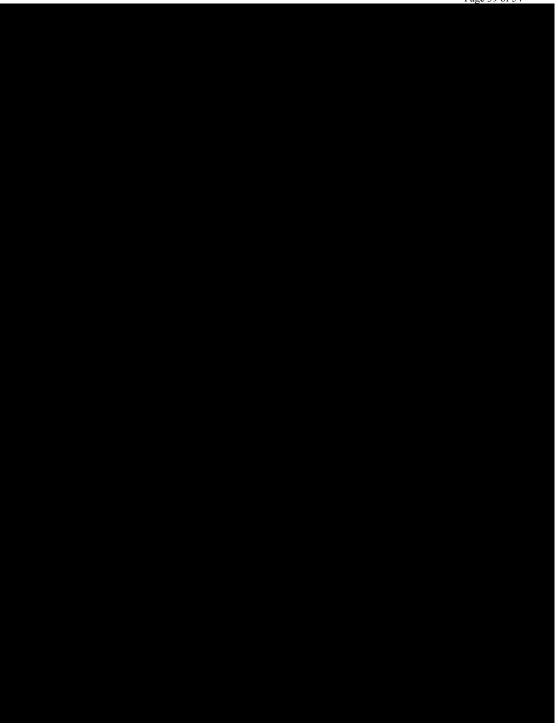
Page 38 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 39 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

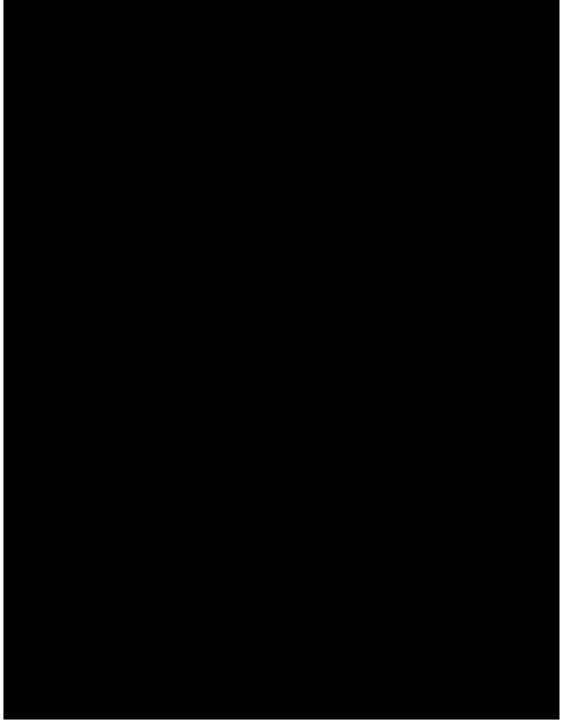
Page 39 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 40 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

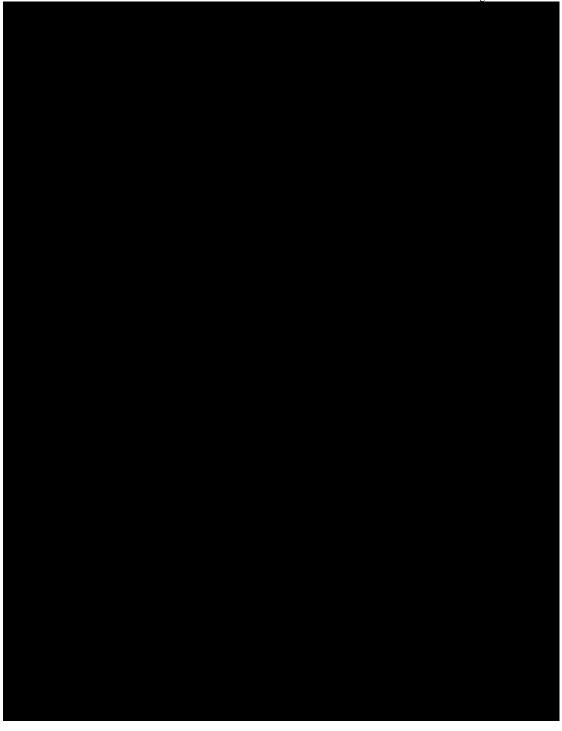
Page 40 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 41 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-10 Page 41 of 54

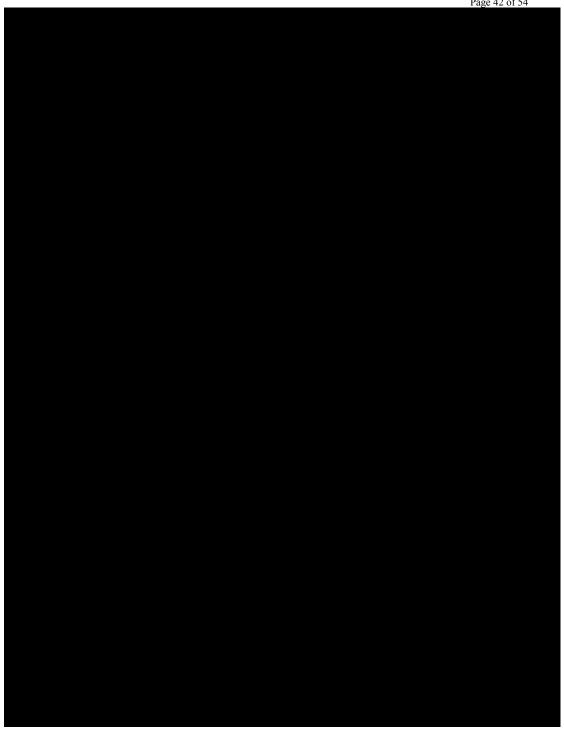


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 42 of 54

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170

Attachment AG-21-39-10

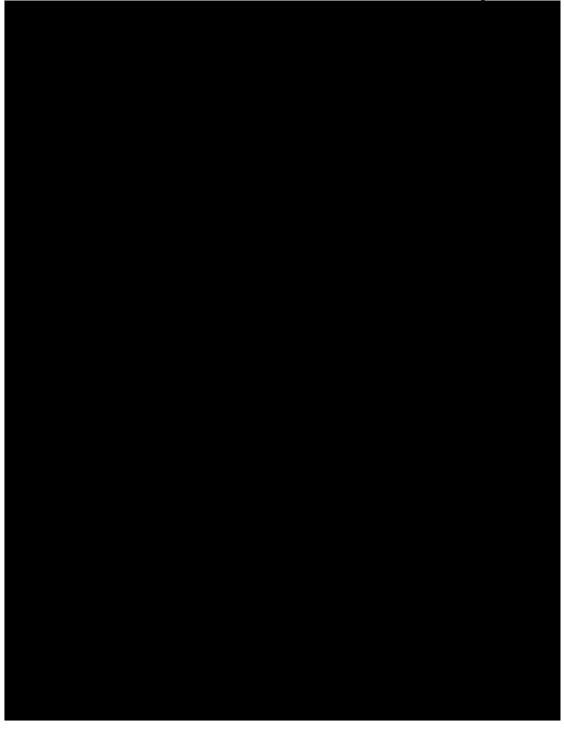
Page 42 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 43 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

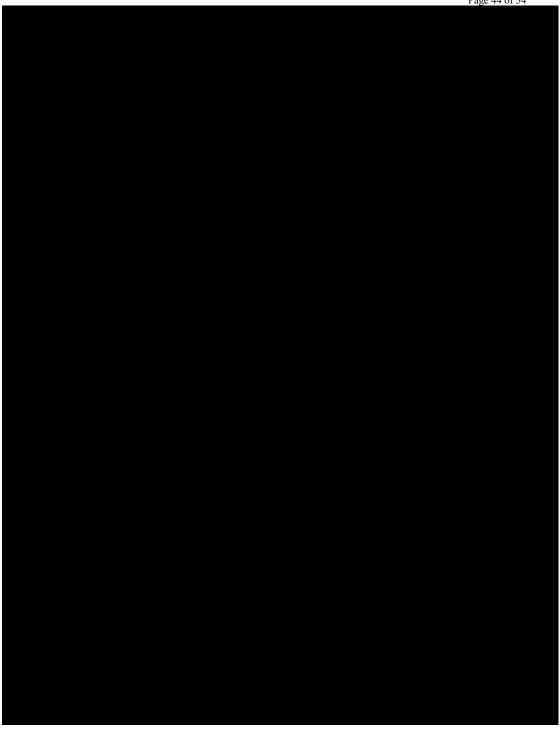
Page 43 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 44 of 54

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170

Attachment AG-21-39-10 Page 44 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 45 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

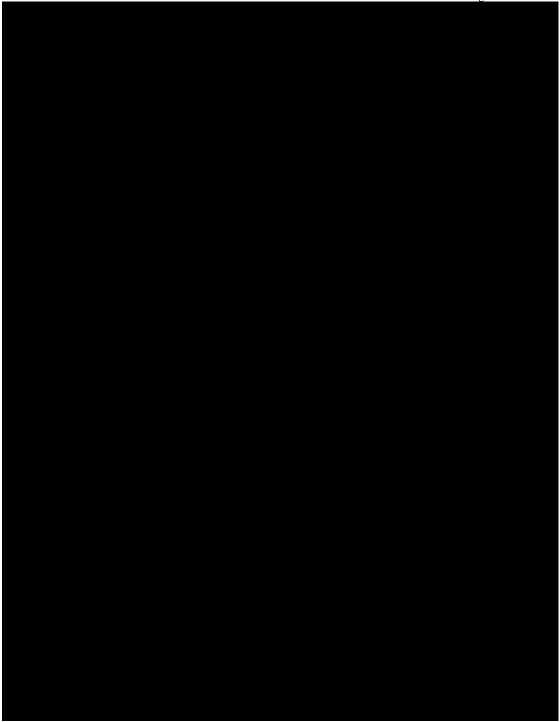
Attachment AG-21-39-10

Page 45 of 54

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 46 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

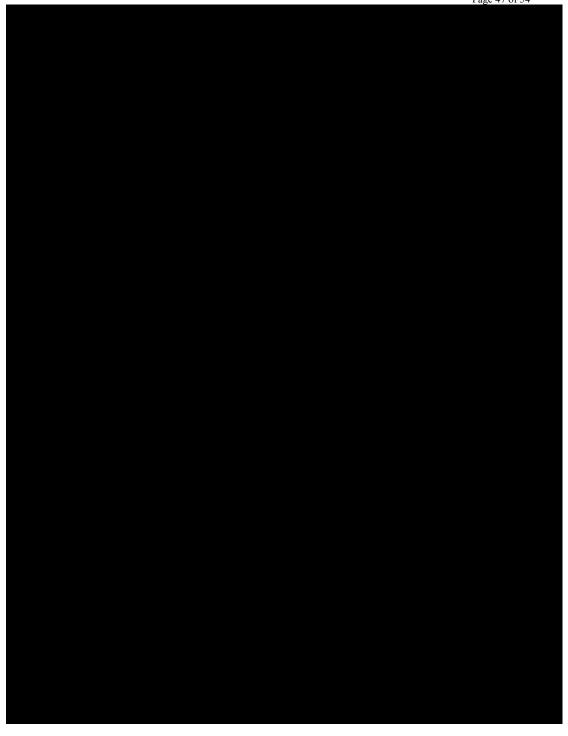
Page 46 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 47 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

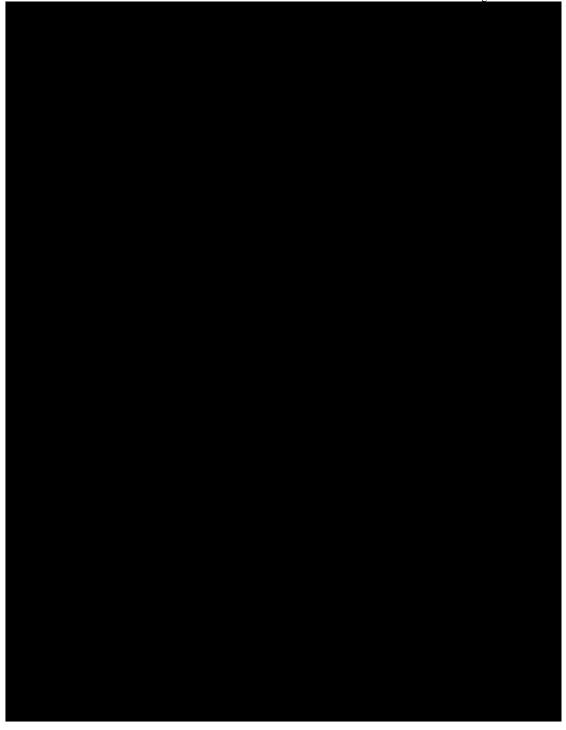
Attachment AG-21-39-10 Page 47 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 48 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

Page 48 of 54

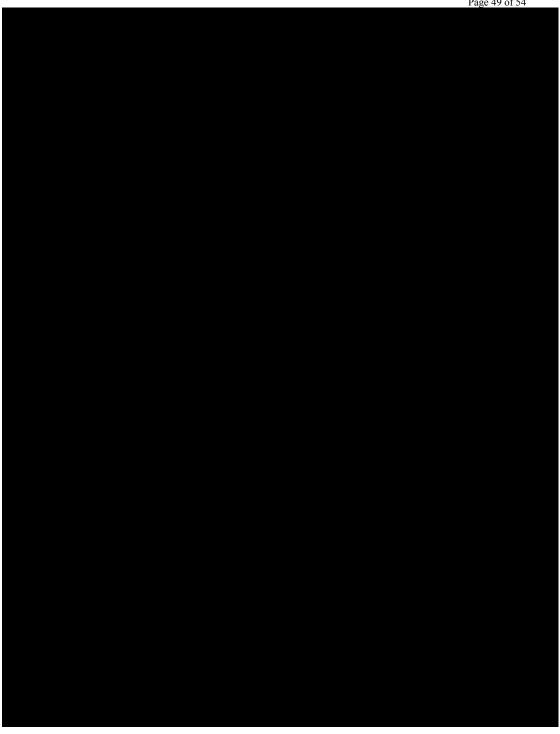


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 49 of 54

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170

Attachment AG-21-39-10

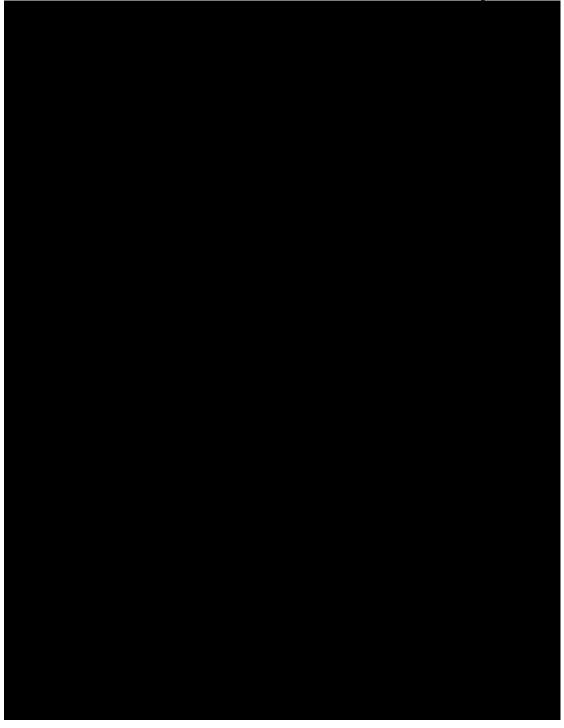
Page 49 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 50 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-10

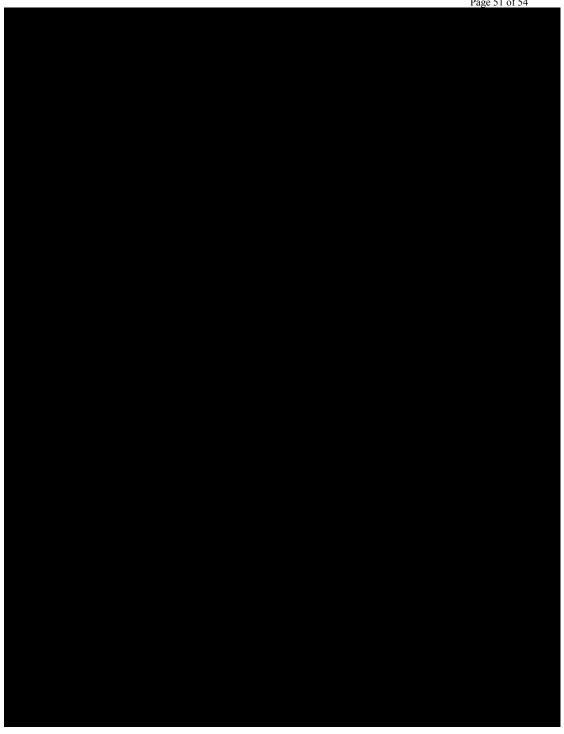
Page 50 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 51 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

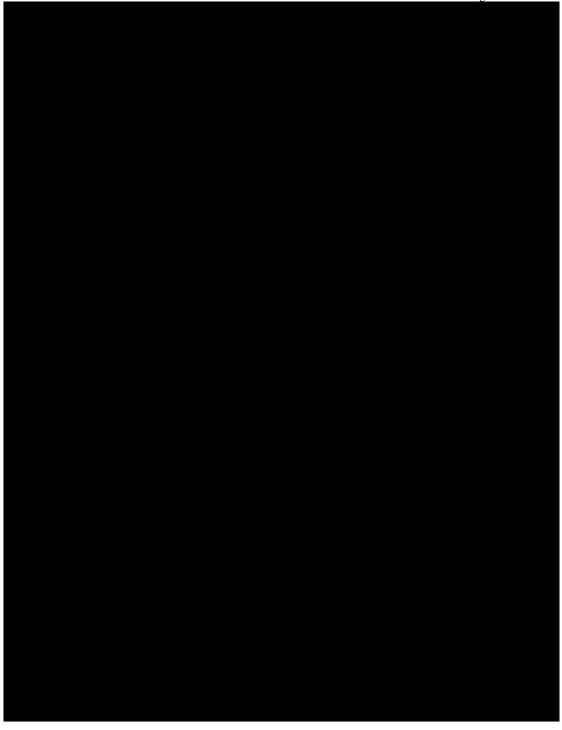
Attachment AG-21-39-10 Page 51 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 52 of 54

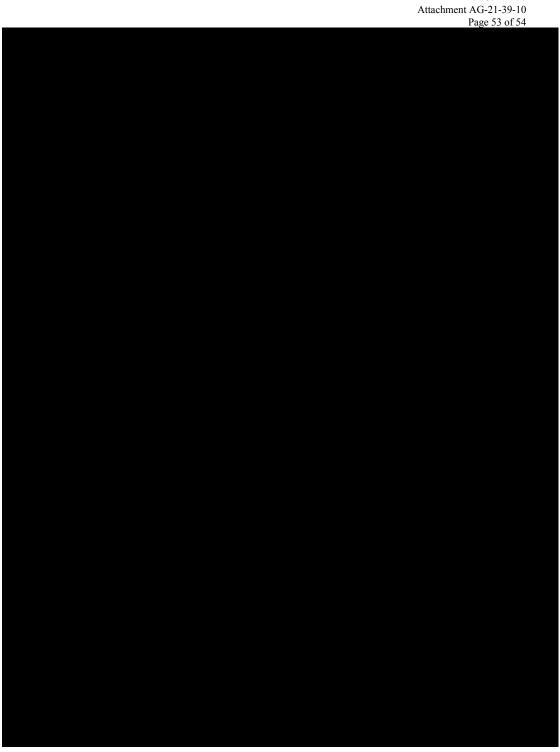
Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-10 Page 52 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 53 of 54

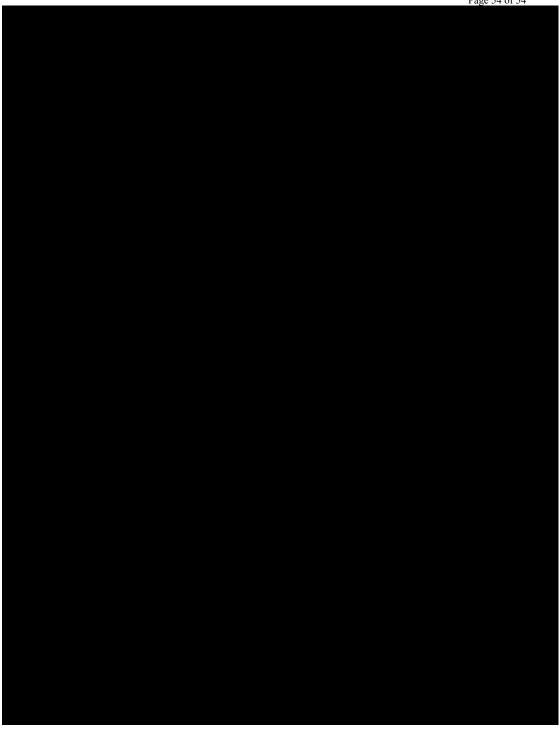
Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-221 Page 54 of 54

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

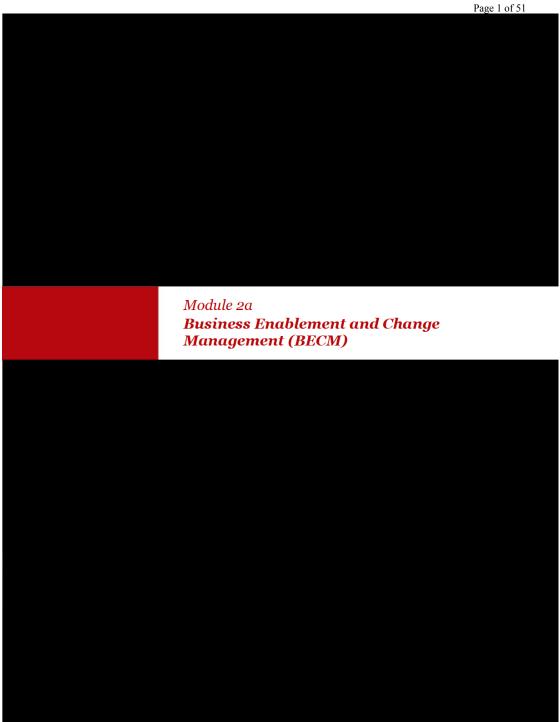
Attachment AG-21-39-10 Page 54 of 54



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 1 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-11



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 2 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

Page 2 of 51

Table of contents



0.	Summary of revisions	2
1.	Key and critical support personnel	4
2.	Project plan,	6
3.	Resource planning and staffing	8
4.	Module initiatives	
5.	Proposed service	24
6.	Key program requirements	26
7.	assumptions	29
8.	Estimation factors used for	assumptions32
9.		35
10.		37
11.	Clarification questions	
12.		45
13.		48

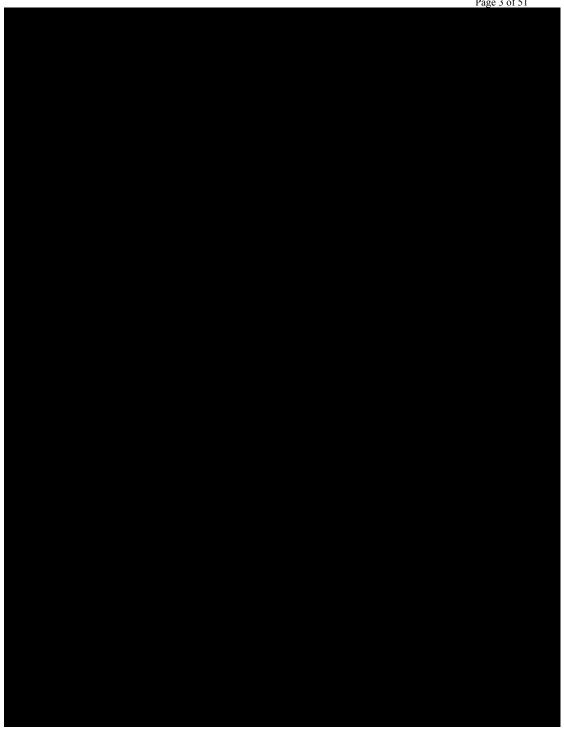


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 3 of 51

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170

Attachment AG-21-39-11

Page 3 of 51

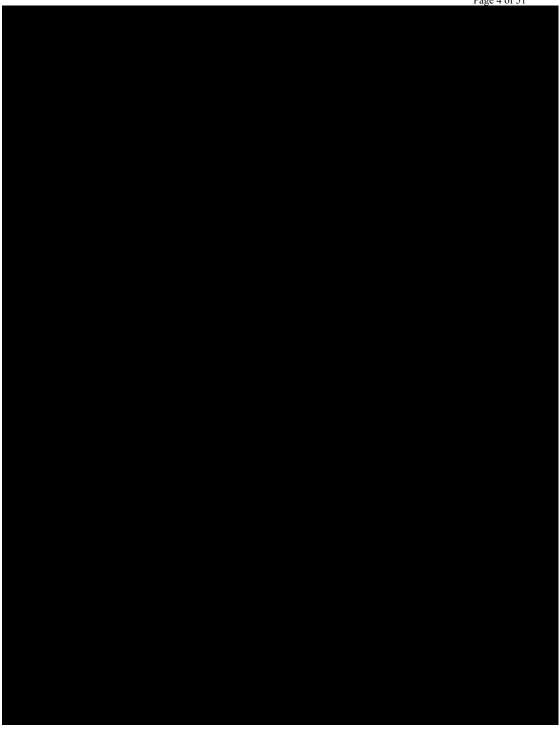


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 4 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-11

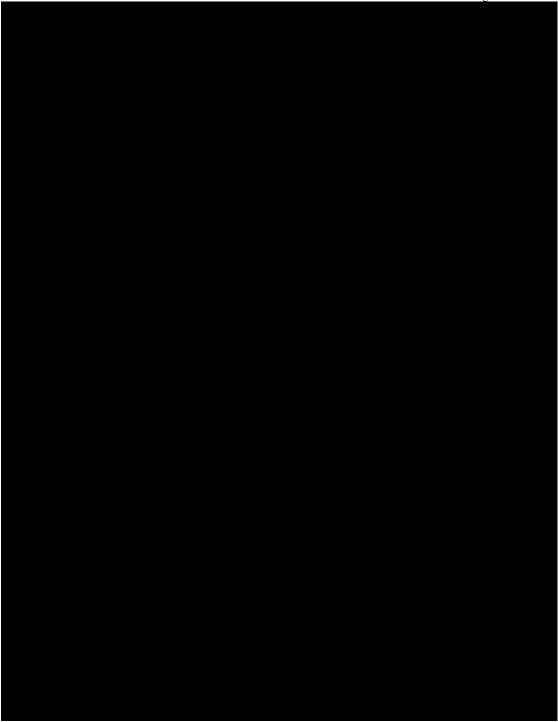
Page 4 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 5 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

Page 5 of 51

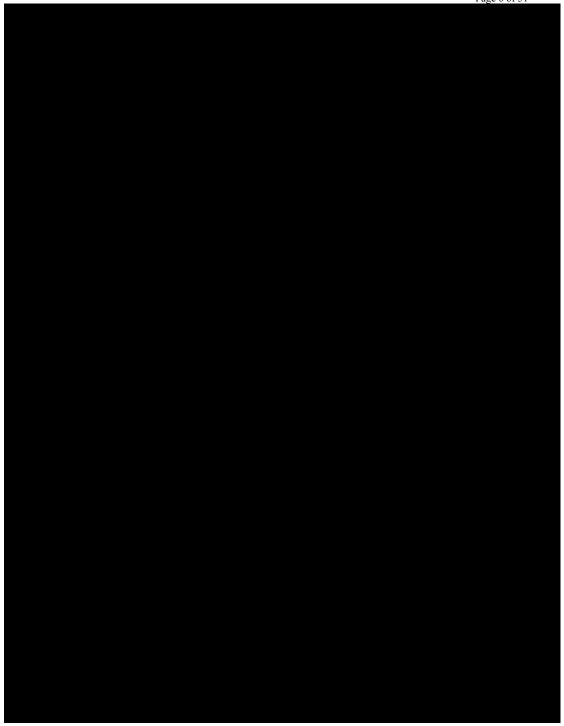


The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 6 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-11

Page 6 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 7 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

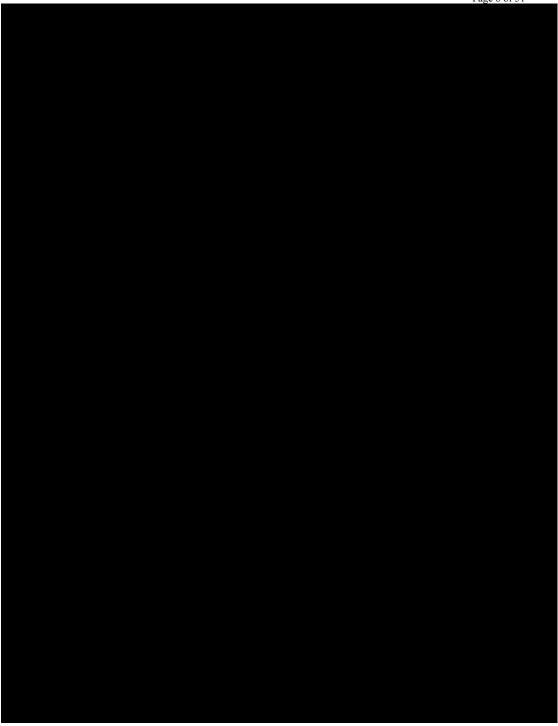
Attachment AG-21-39-11

Page 7 of 51

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 8 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

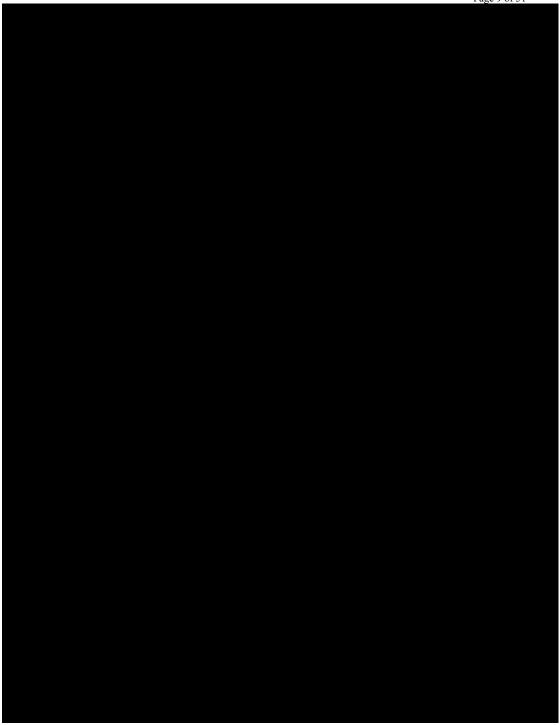
Page 8 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 9 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

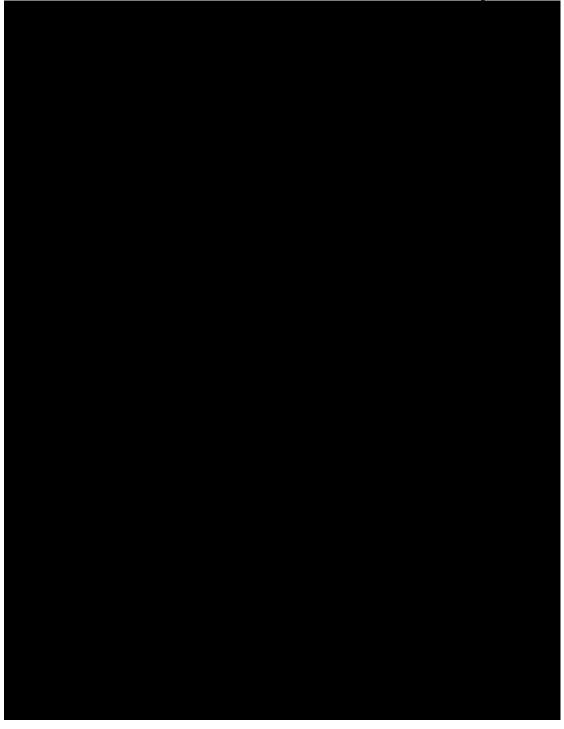
Page 9 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 10 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

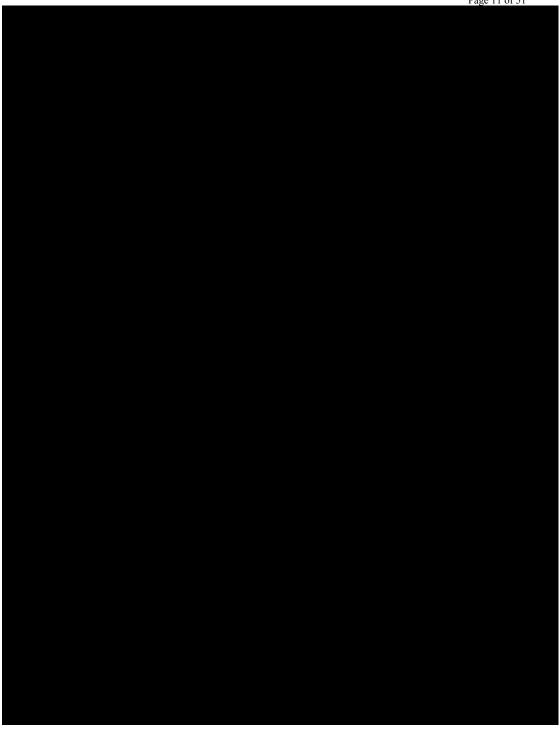
Page 10 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 11 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

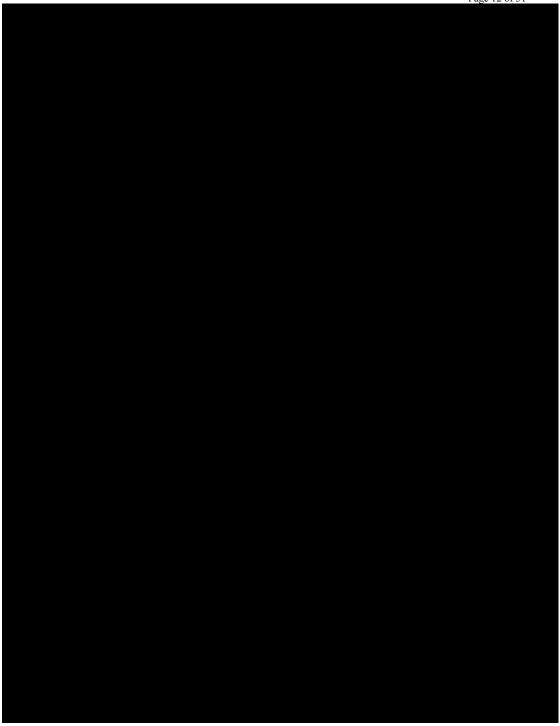
Page 11 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 12 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

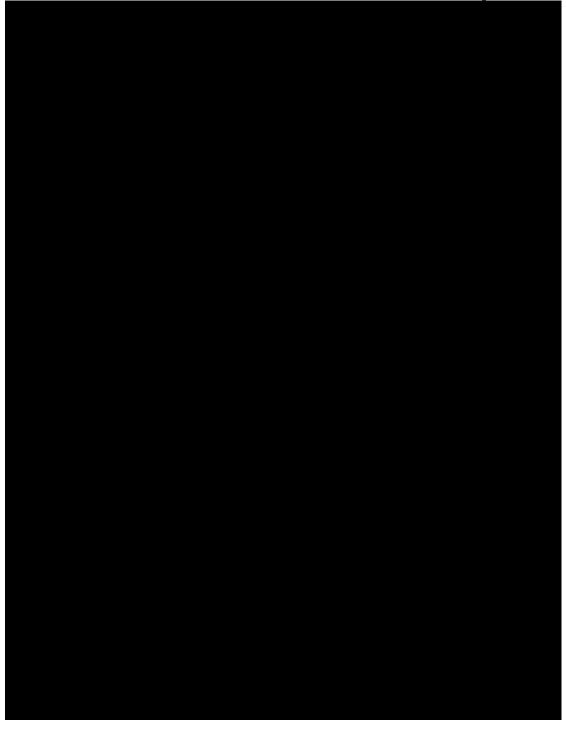
Page 12 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 13 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

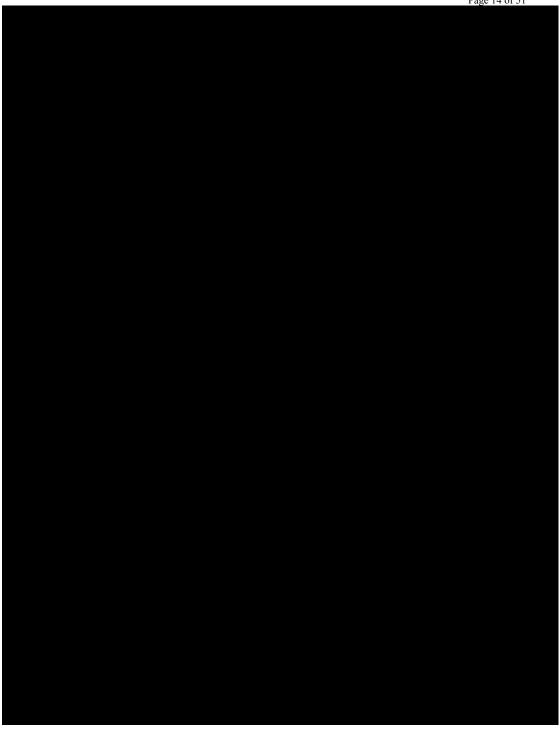
Page 13 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 14 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

Page 14 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 15 of 51

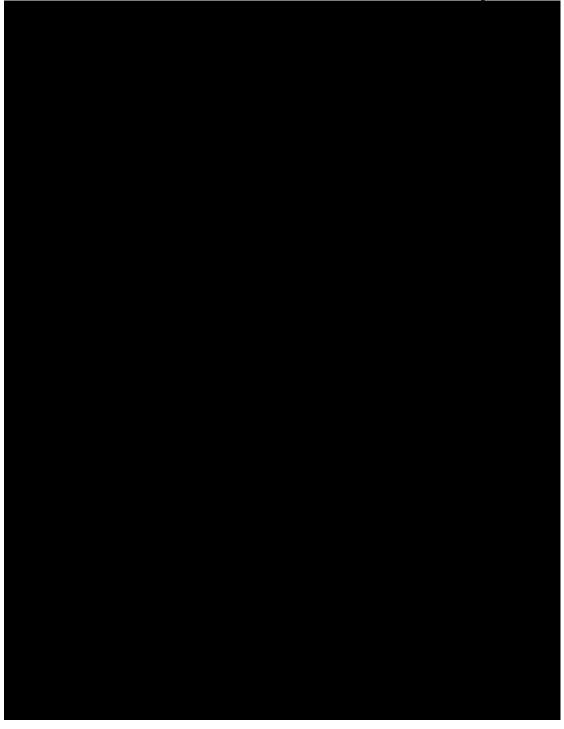
Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-11

Page 15 of 51

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 16 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

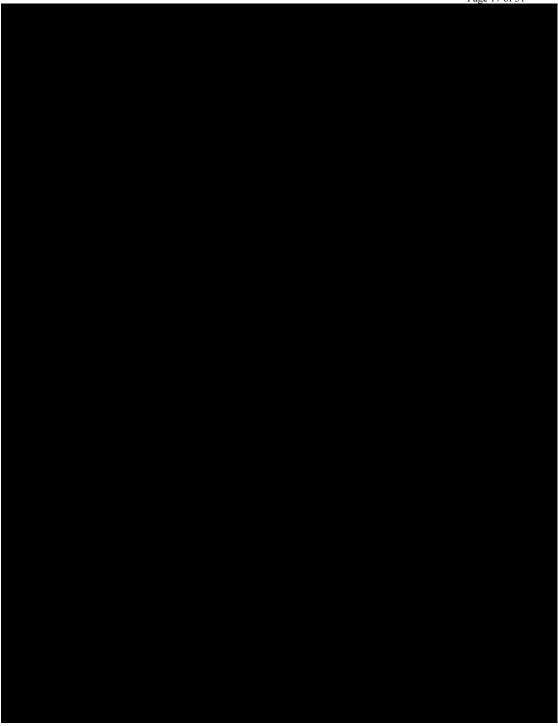
Page 16 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 17 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

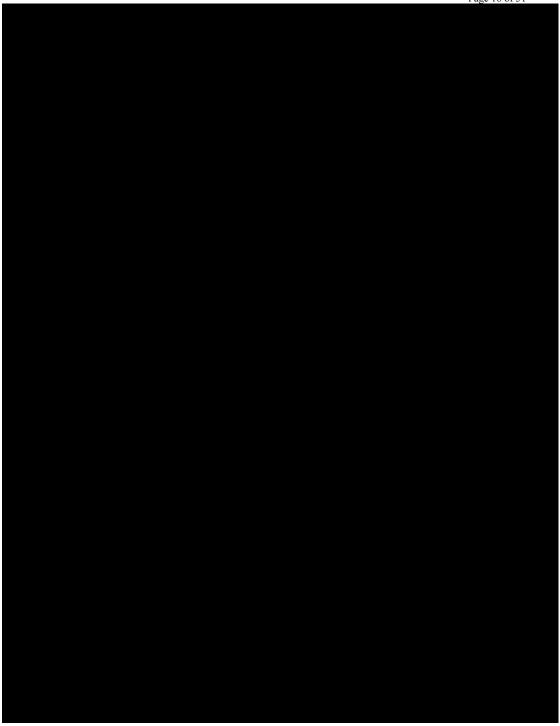
Page 17 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 18 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

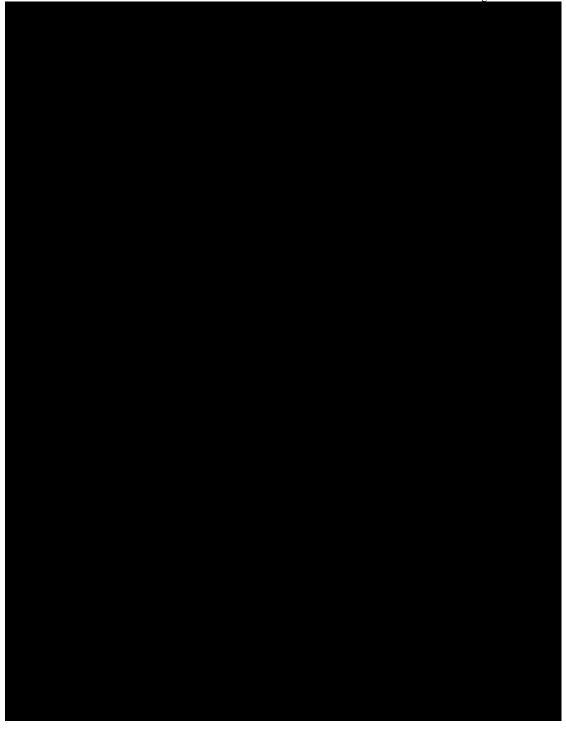
Page 18 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 19 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

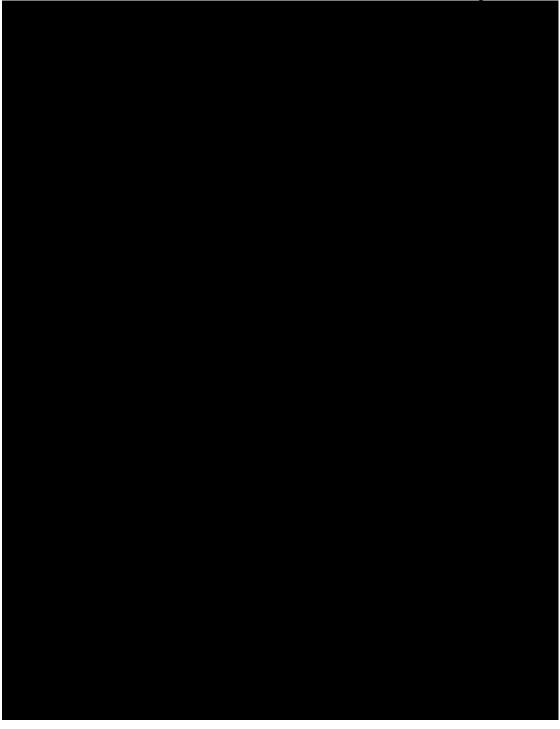
Page 19 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 20 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

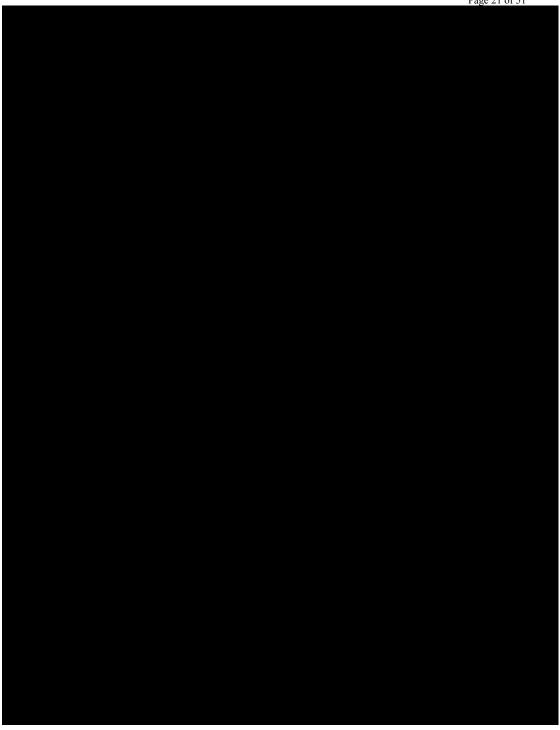
Page 20 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 21 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

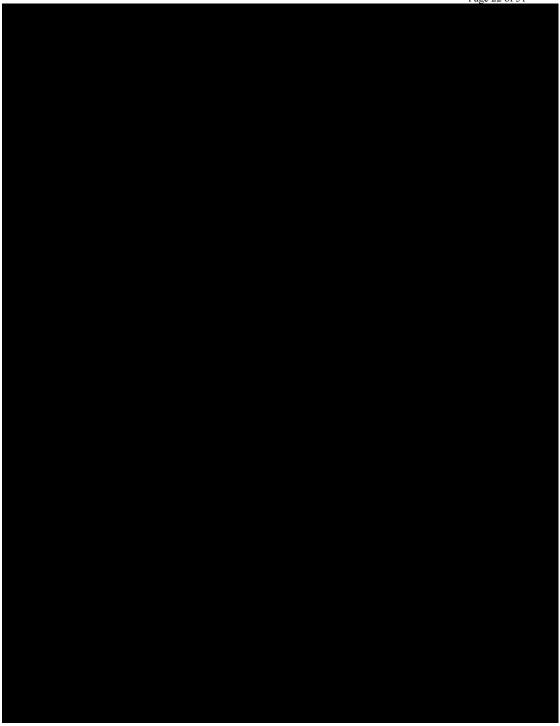
Attachment AG-21-39-11 Page 21 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 22 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

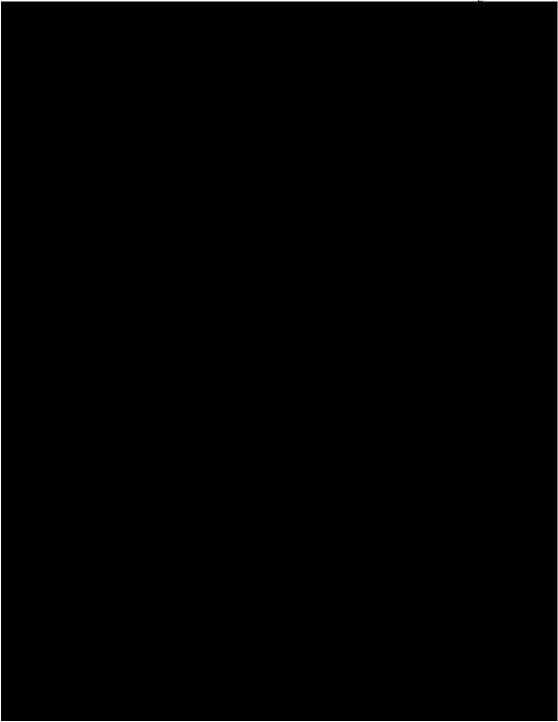
Page 22 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 23 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

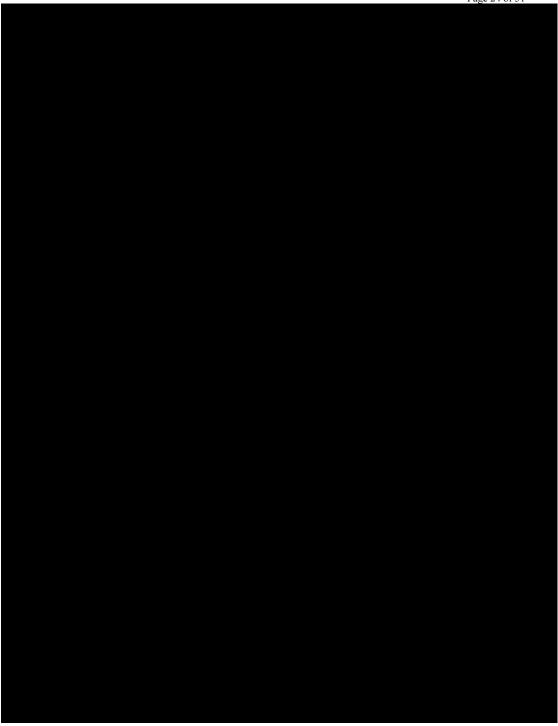
Page 23 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 24 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

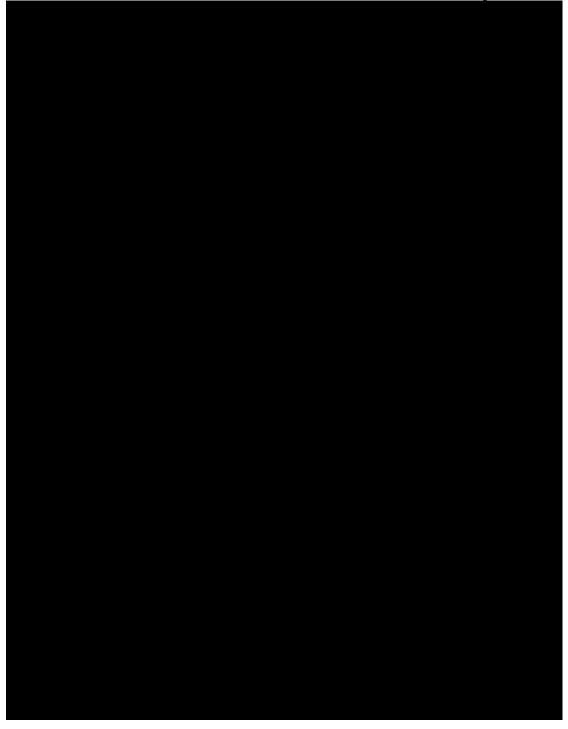
Page 24 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 25 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

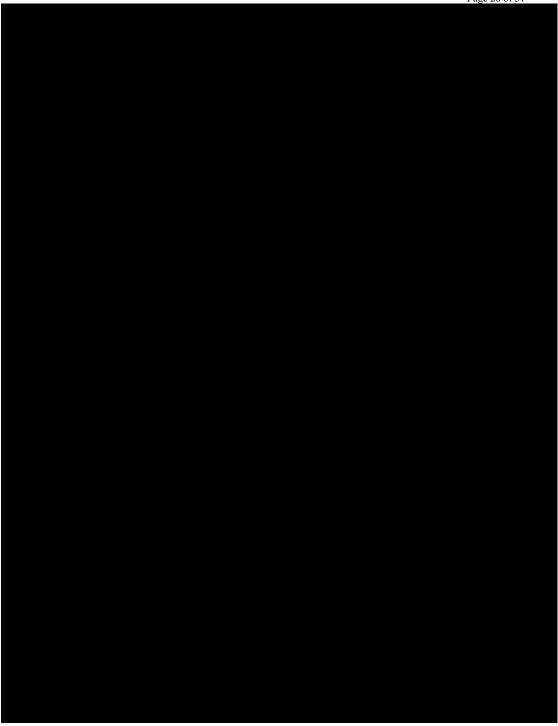
Page 25 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 26 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

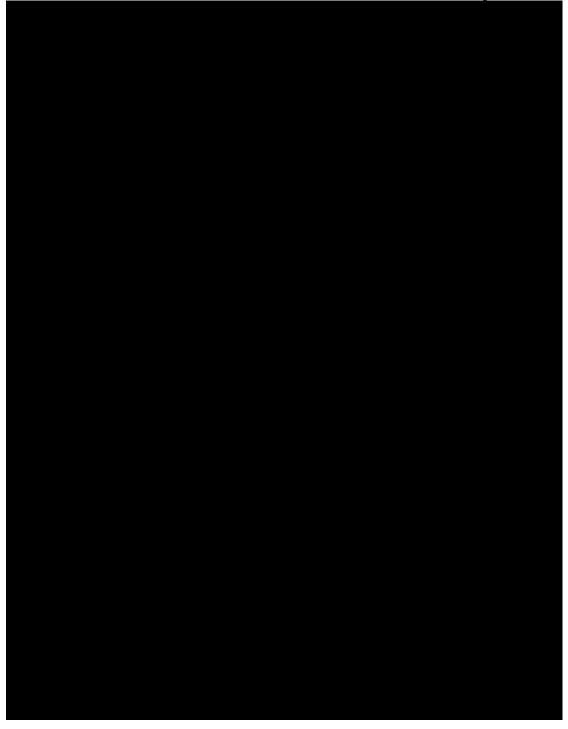
Page 26 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 27 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

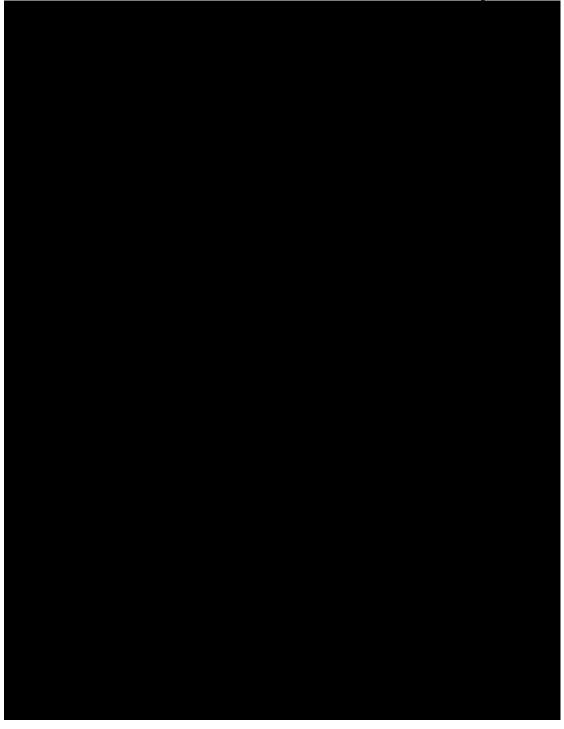
Page 27 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 28 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

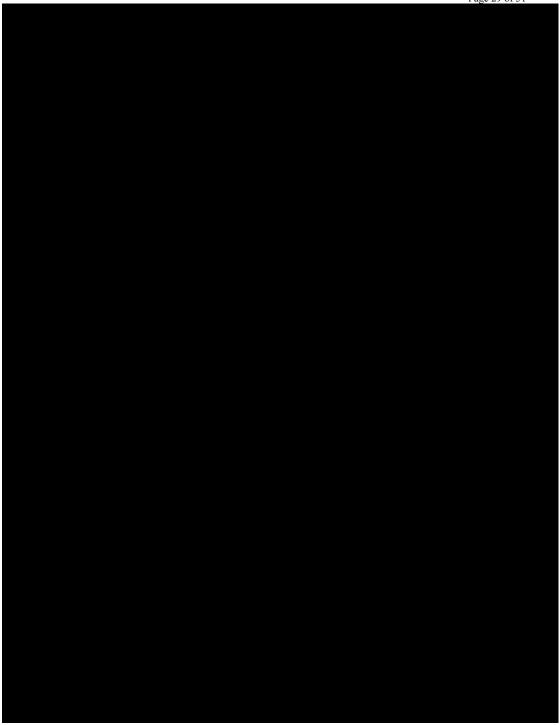
Page 28 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 29 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

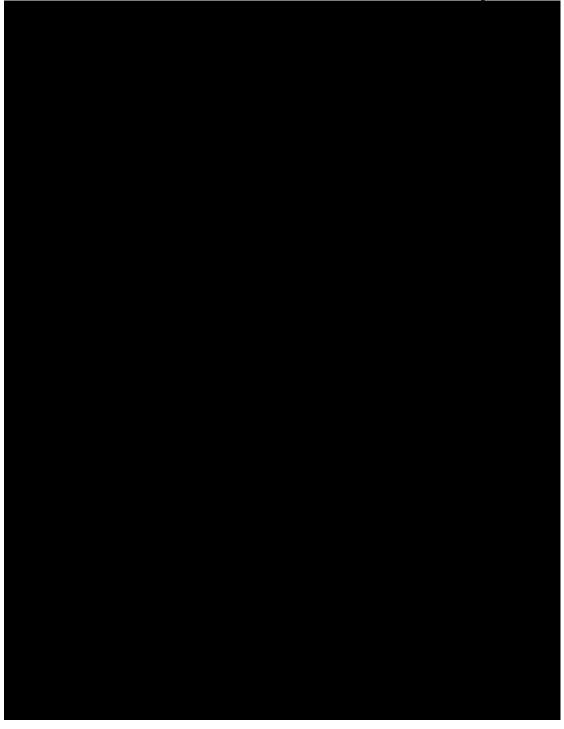
Page 29 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 30 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

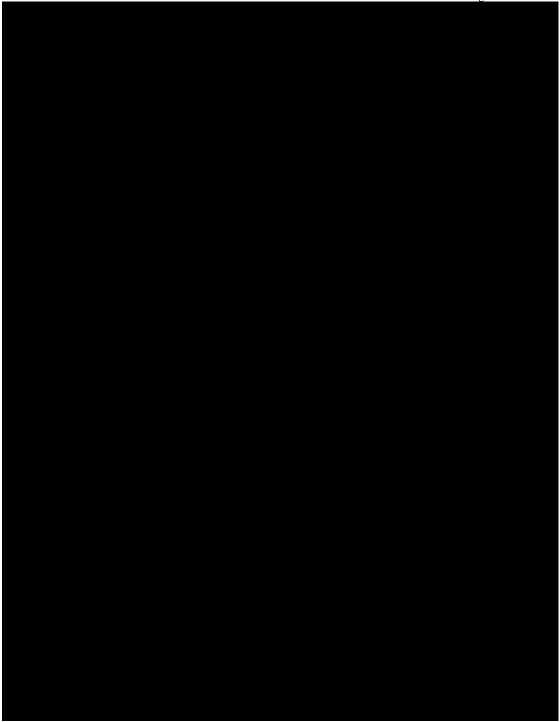
Page 30 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 31 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

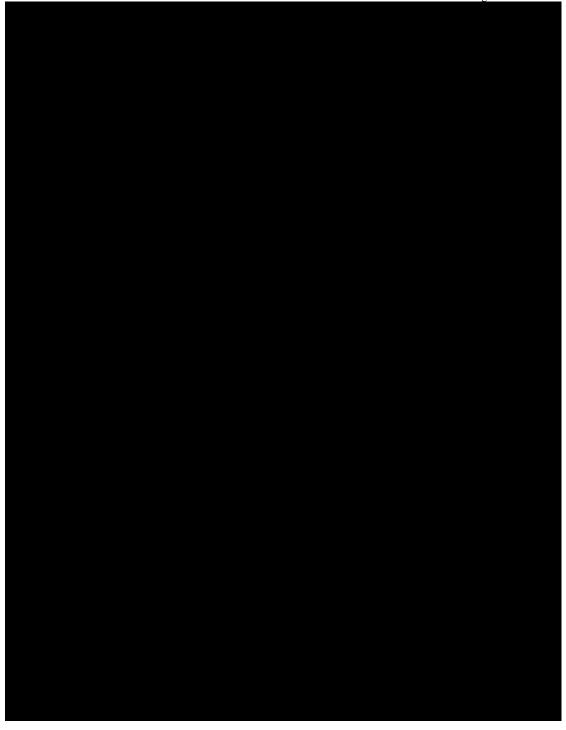
Page 31 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 32 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

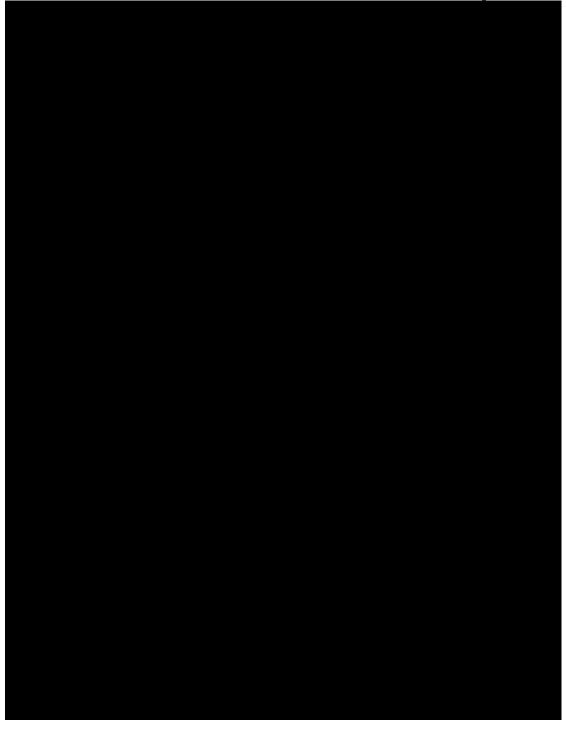
Page 32 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 33 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

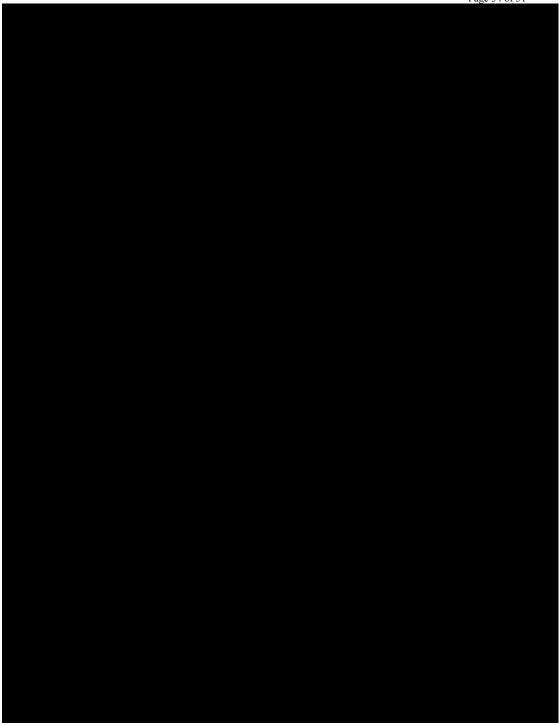
Page 33 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 34 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

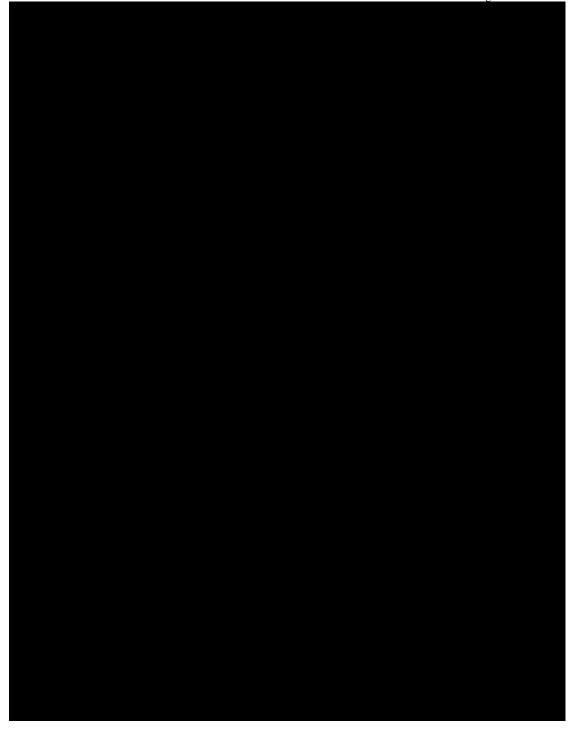
Page 34 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 35 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

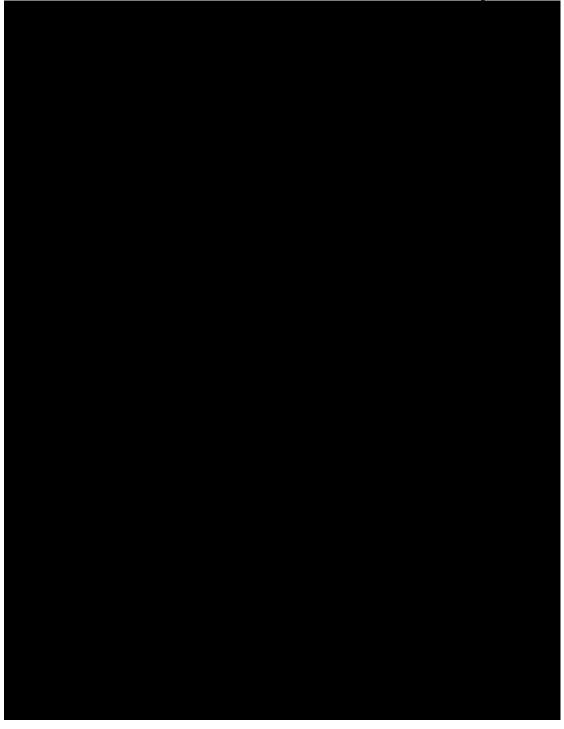
Page 35 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 36 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

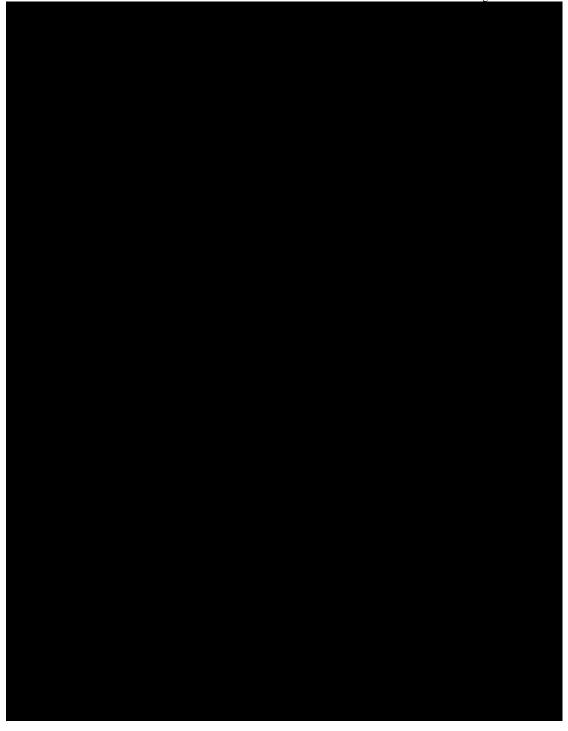
Page 36 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 37 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

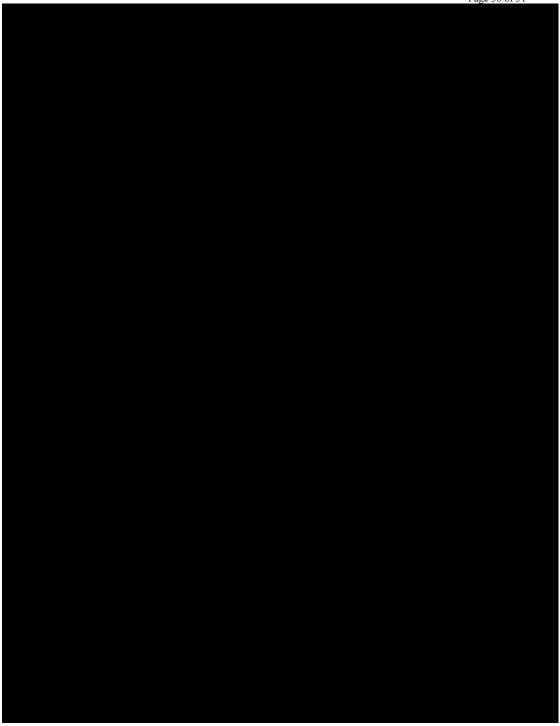
Page 37 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 38 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

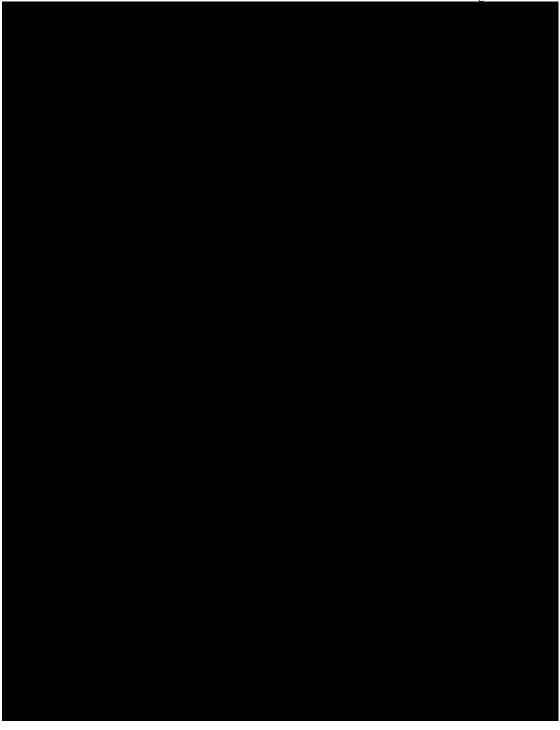
Page 38 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 39 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

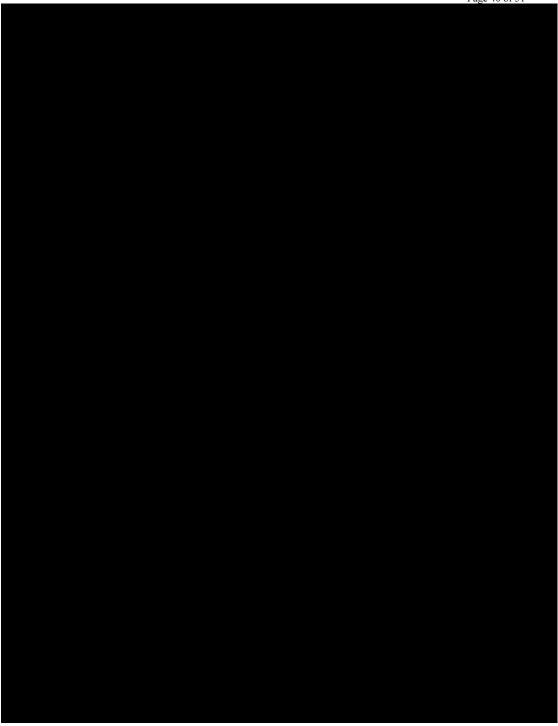
Page 39 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 40 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

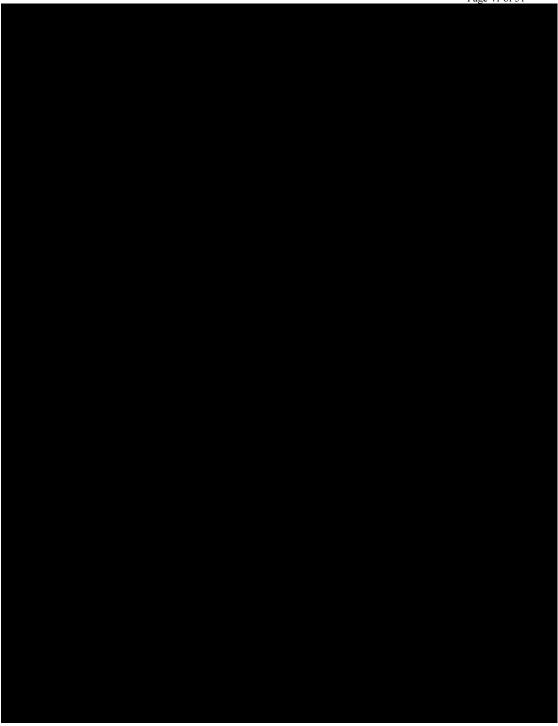
Page 40 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 41 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

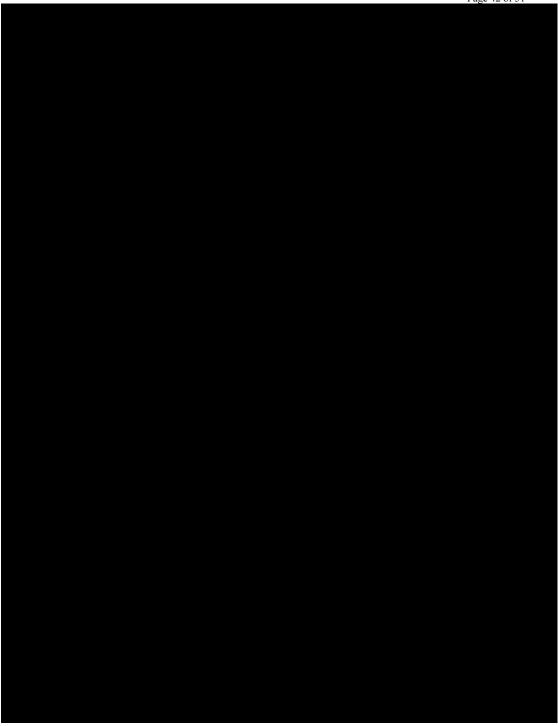
Page 41 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 42 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

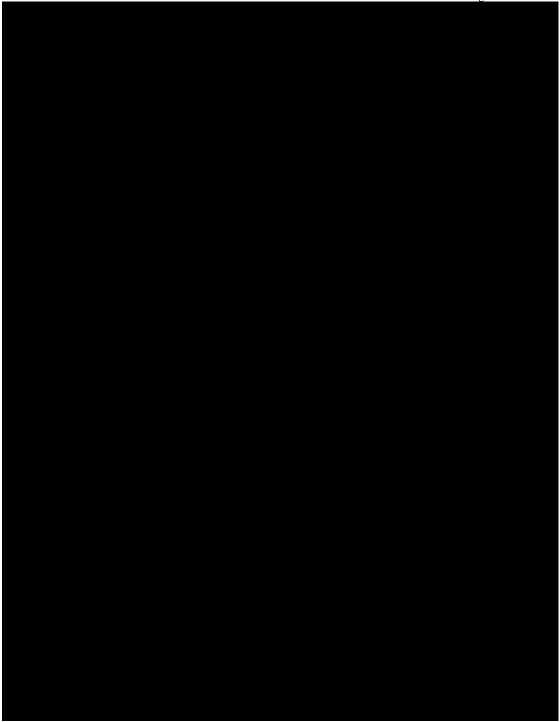
Page 42 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 43 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

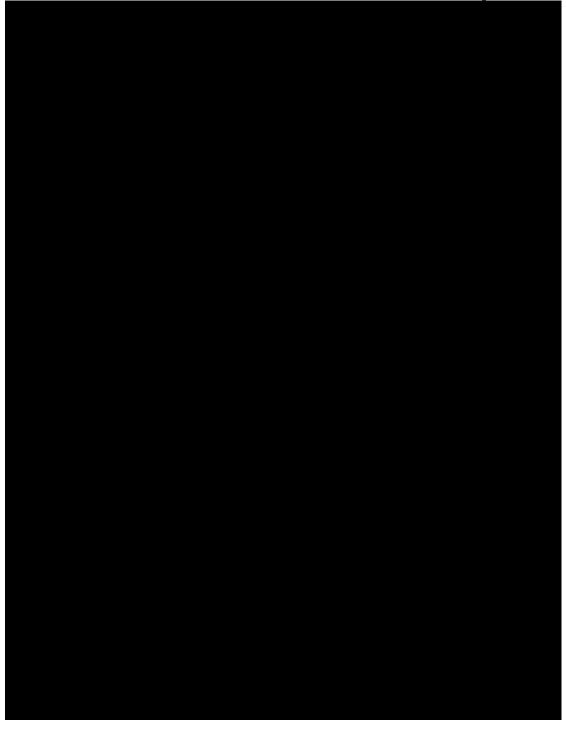
Page 43 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 44 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

Page 44 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 45 of 51

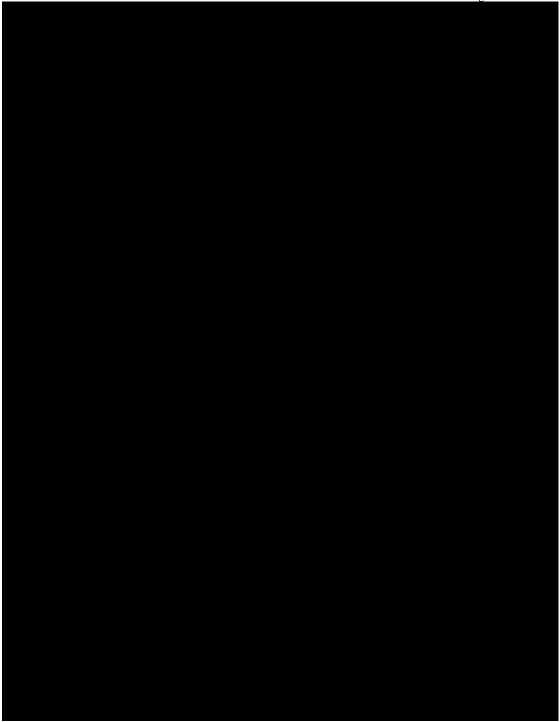
Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-11

Page 45 of 51

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 46 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

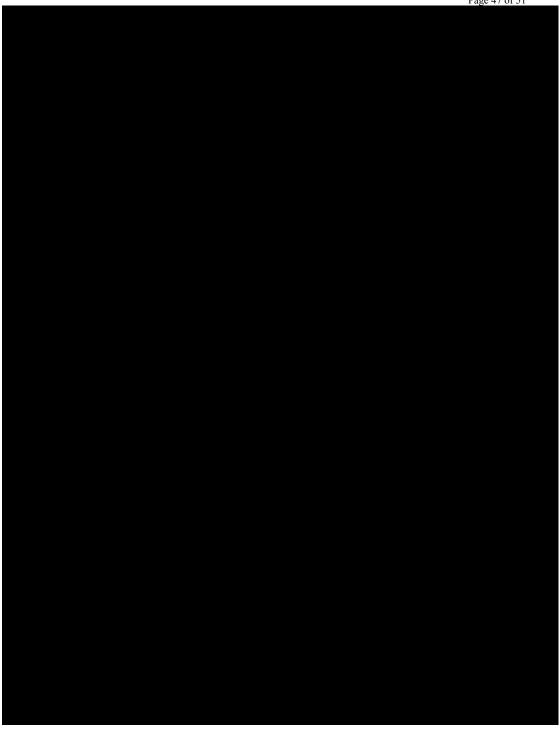
Page 46 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 47 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

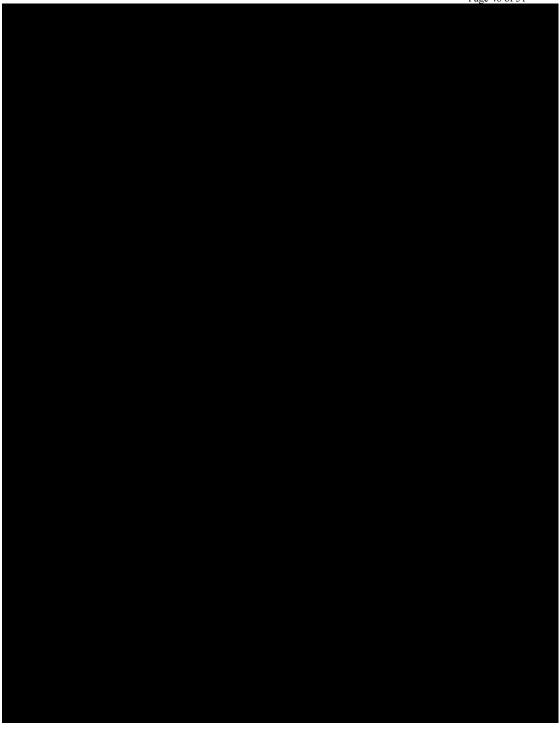
Page 47 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 48 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

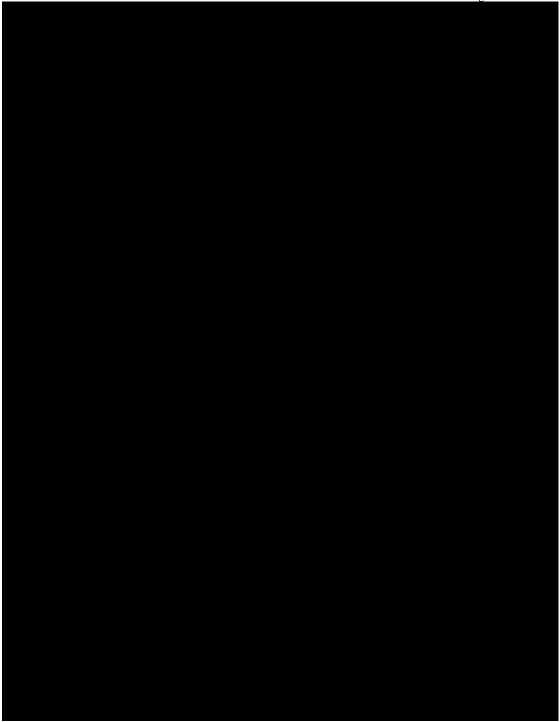
Attachment AG-21-39-11 Page 48 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 49 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

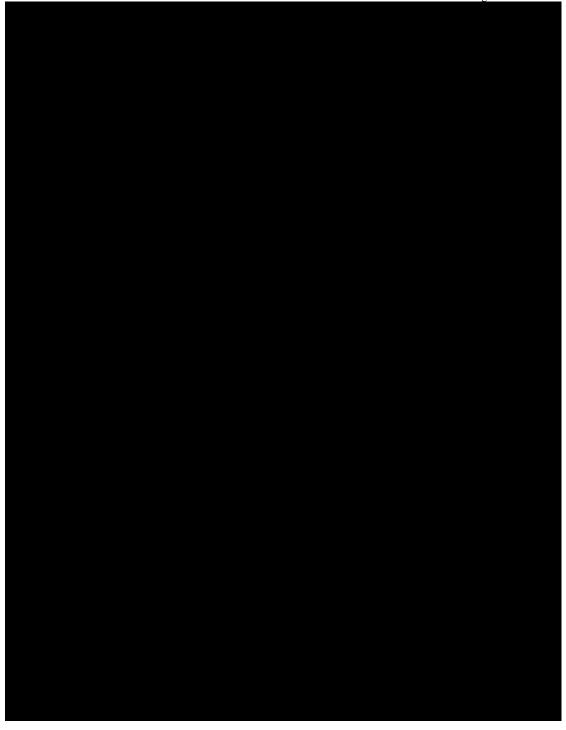
Page 49 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 50 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

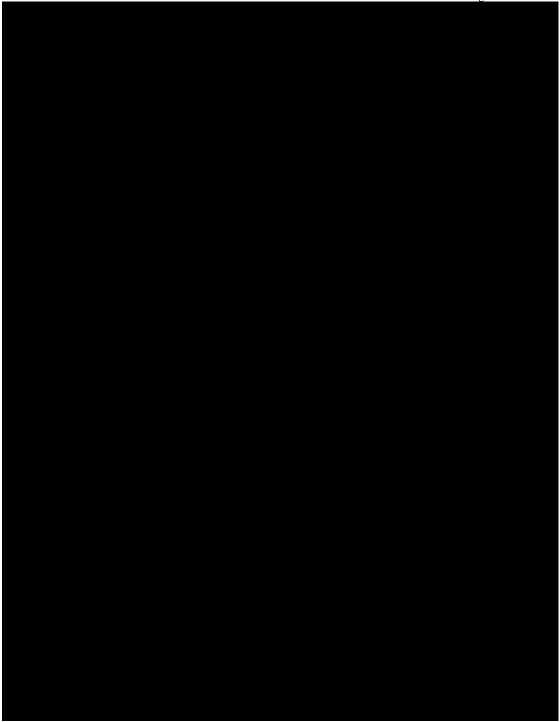
Page 50 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-222 Page 51 of 51

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-11

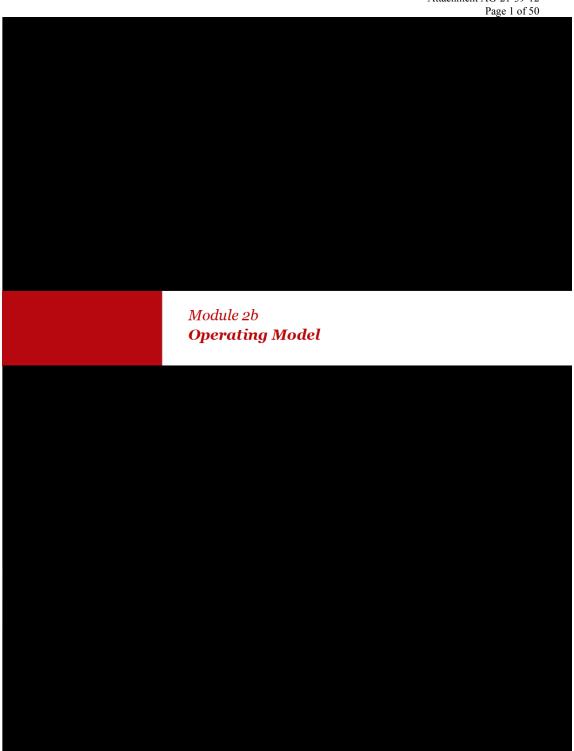
Page 51 of 51



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 1 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

D.P.U. 17-170 Attachment AG-21-39-12





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 2 of 50

REDACTED

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12
Page 2 of 50

Table of contents



0.	Summary of revisions
1.	Key and critical support personnel4
2.	Project plan,
3.	Resource planning and staffing
4.	Module initiatives
<i>5</i> .	Proposed service22
6.	Key program requirements24
7.	assumptions
8.	Estimation factors used for assumptions29
9.	34
10.	36
11.	Clarification questions38
12.	44
13.	47

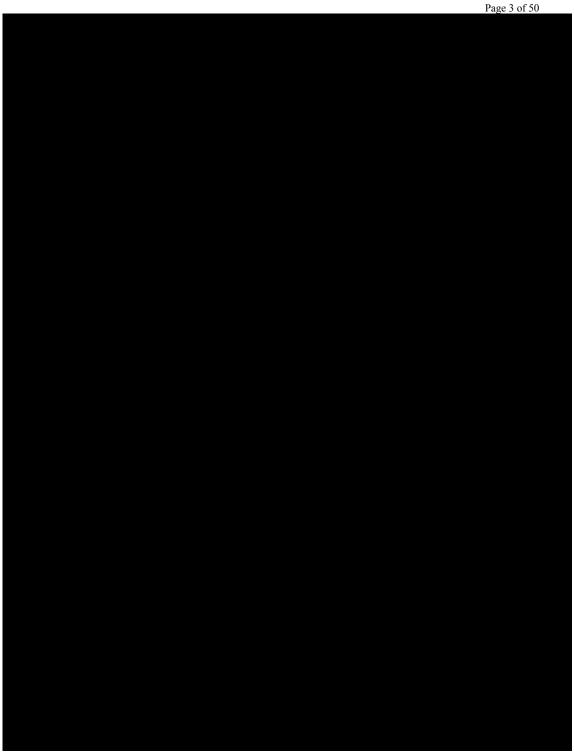




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 3 of 50

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-12

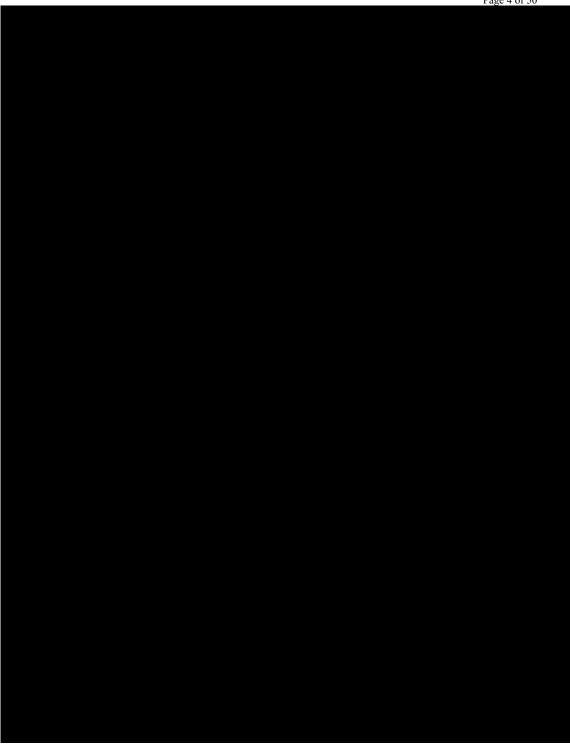




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 4 of 50

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-12 Page 4 of 50

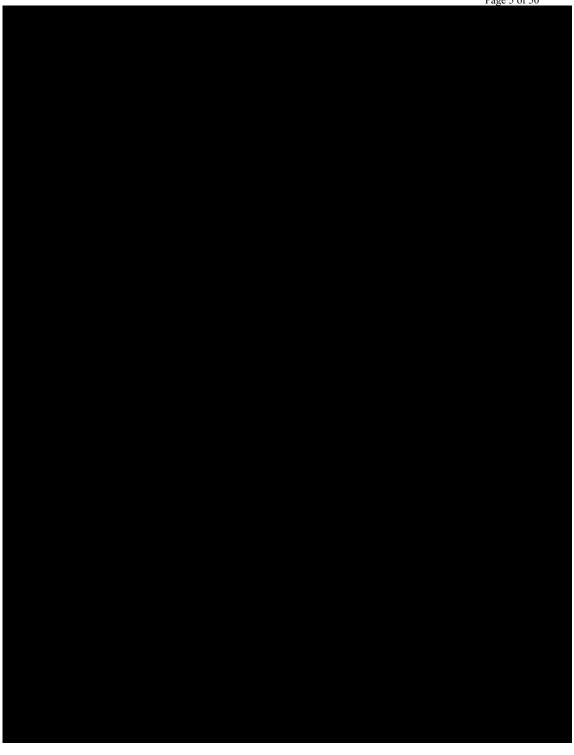




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 5 of 50

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-12 Page 5 of 50

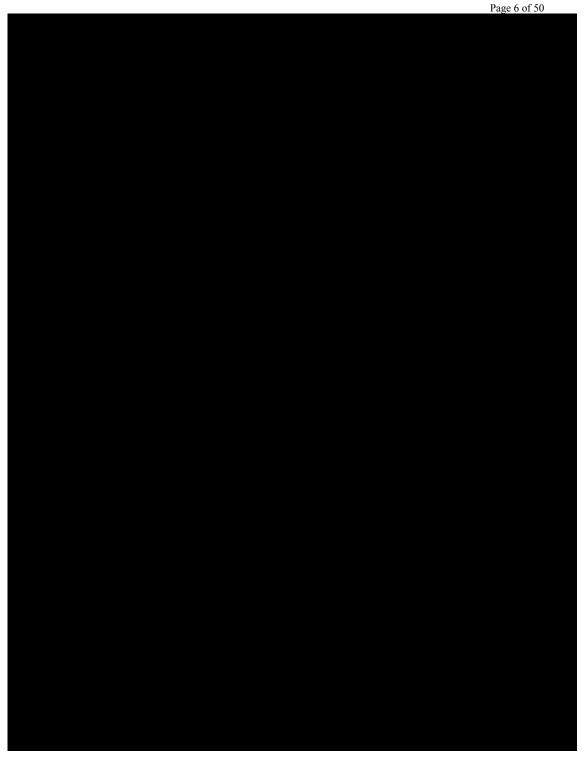




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 6 of 50

Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-12

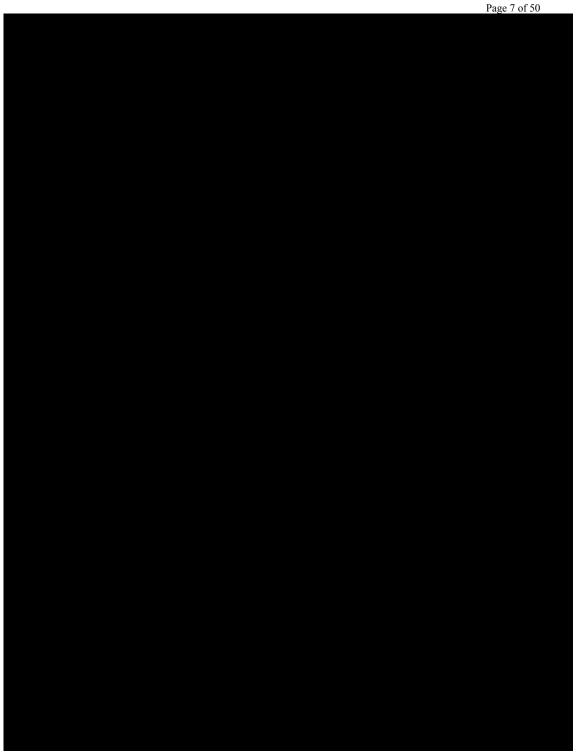




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 7 of 50

Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

D.P.U. 17-170 Attachment AG-21-39-12

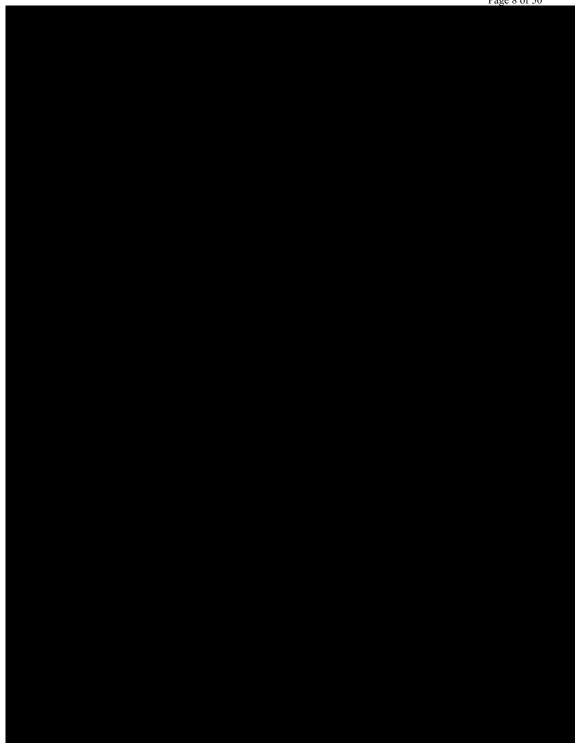




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 8 of 50

Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-12 Page 8 of 50

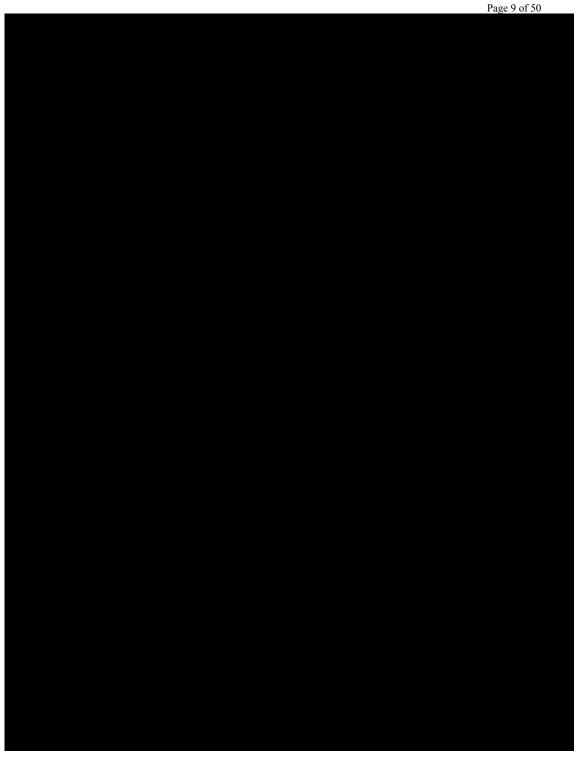




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 9 of 50

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-12

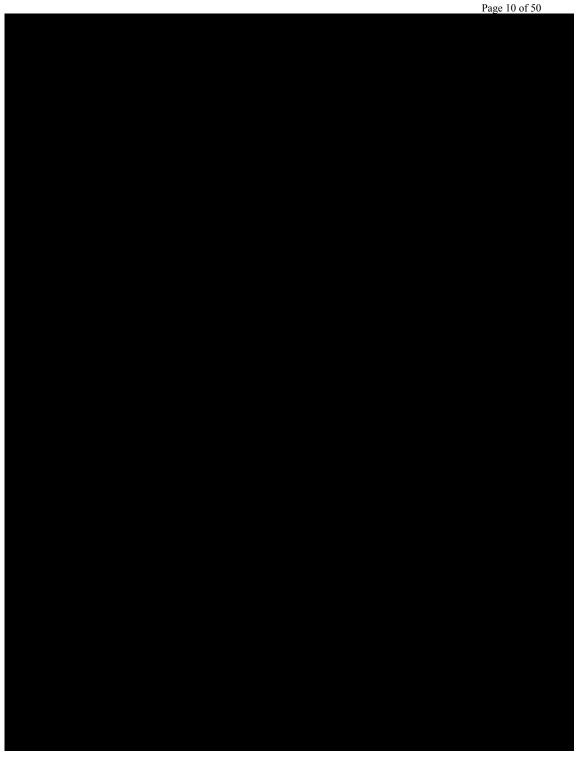




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 10 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
DP II 17-170

D.P.U. 17-170 Attachment AG-21-39-12

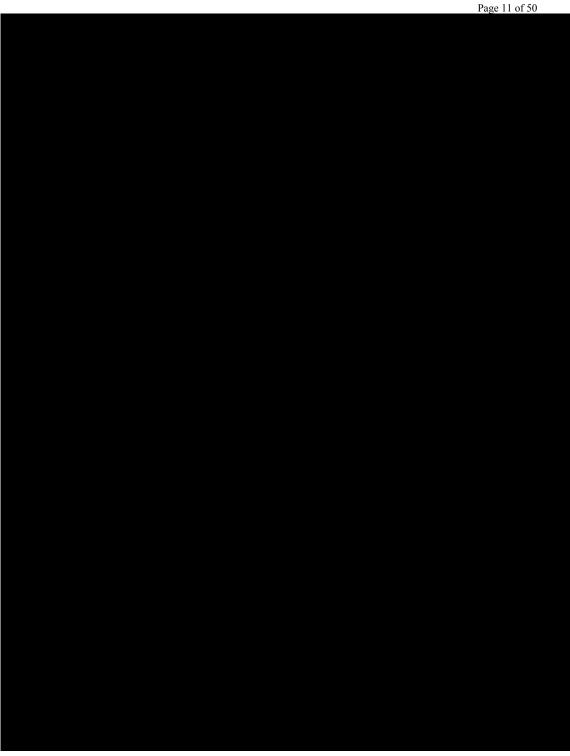




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 11 of 50

Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

Attachment AG-21-39-12

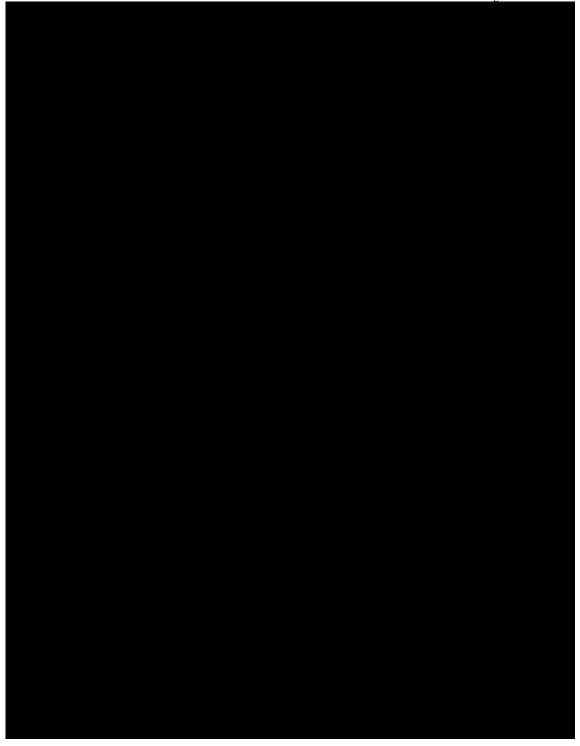




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 12 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

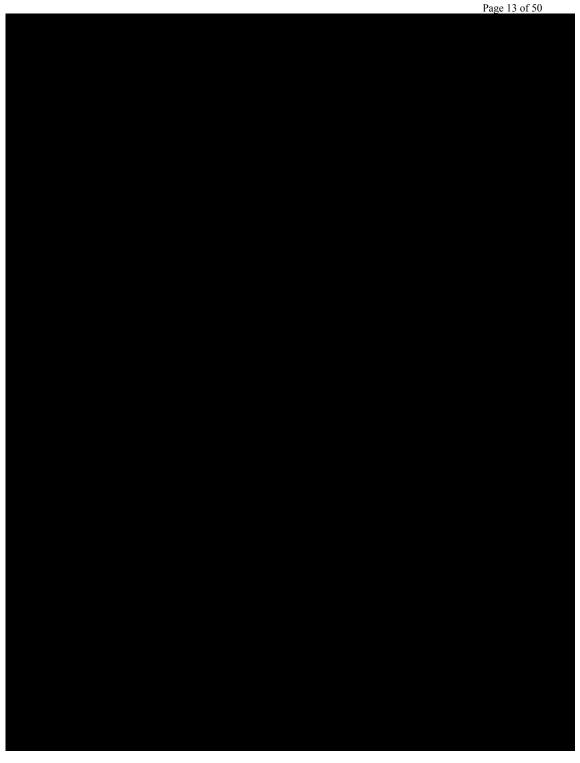
Page 12 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 13 of 50

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170

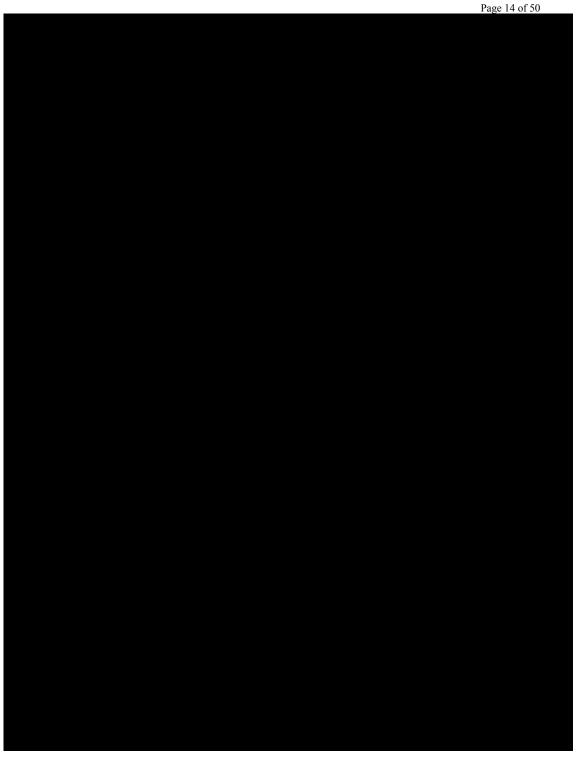




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 14 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
DP II 17-170

D.P.U. 17-170 Attachment AG-21-39-12

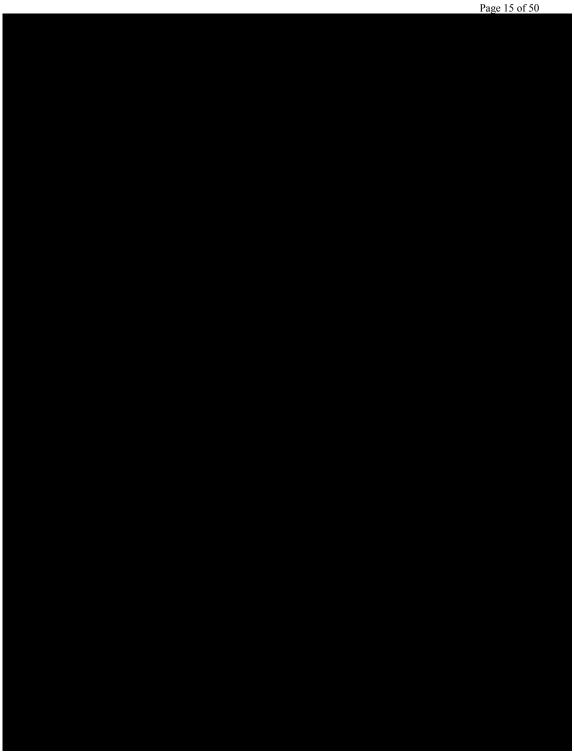




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 15 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid

D.P.U. 17-170 Attachment AG-21-39-12

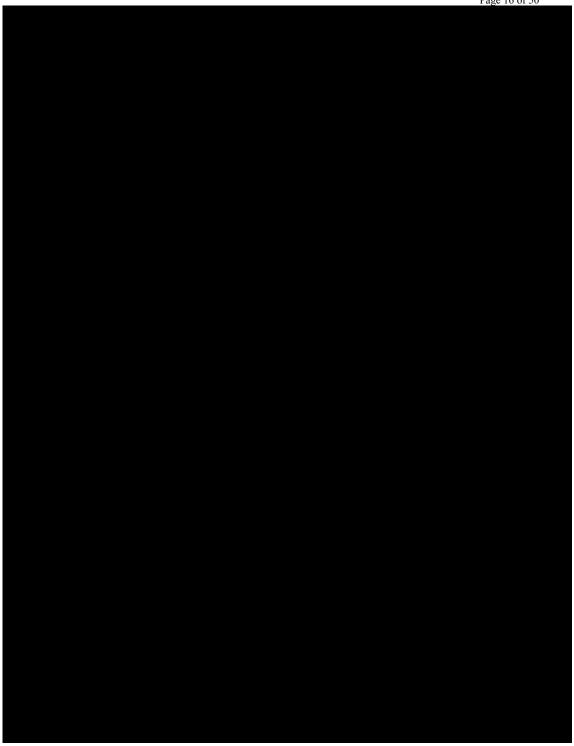




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 16 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

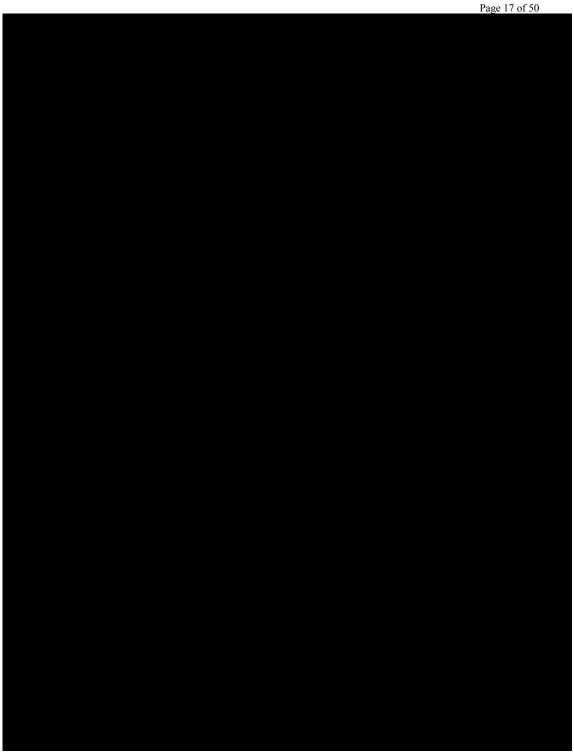
Page 16 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 17 of 50

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-12

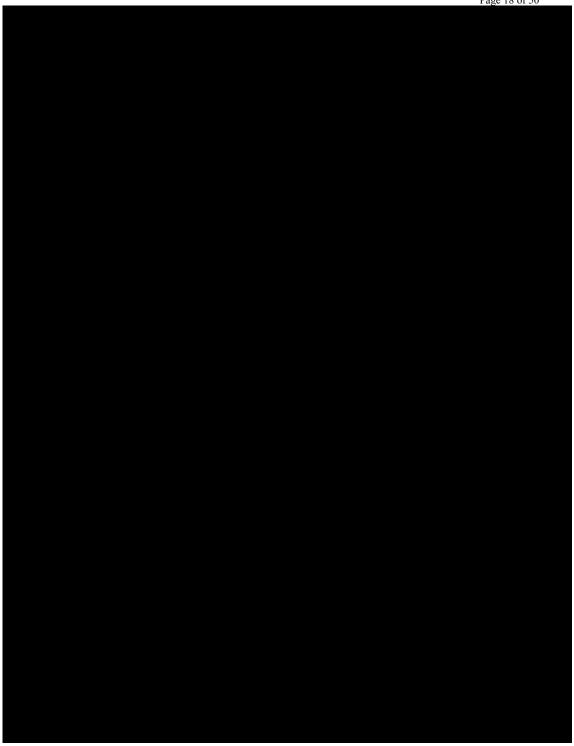




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 18 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

Page 18 of 50

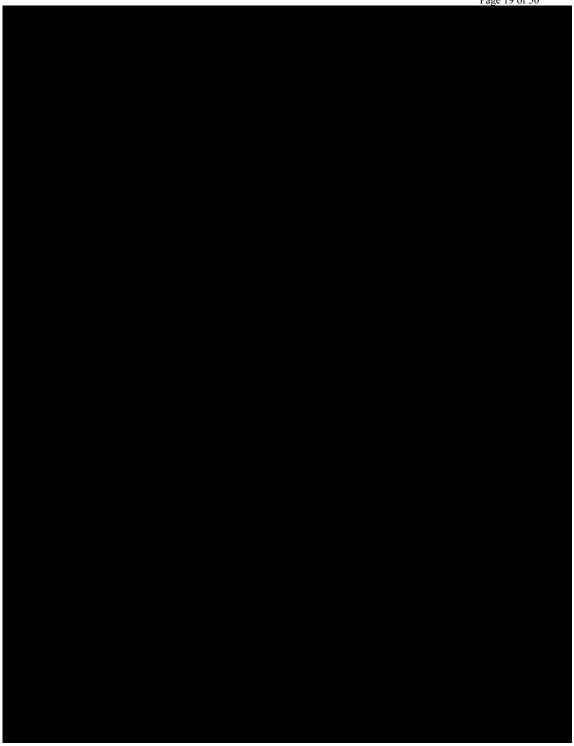




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 19 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

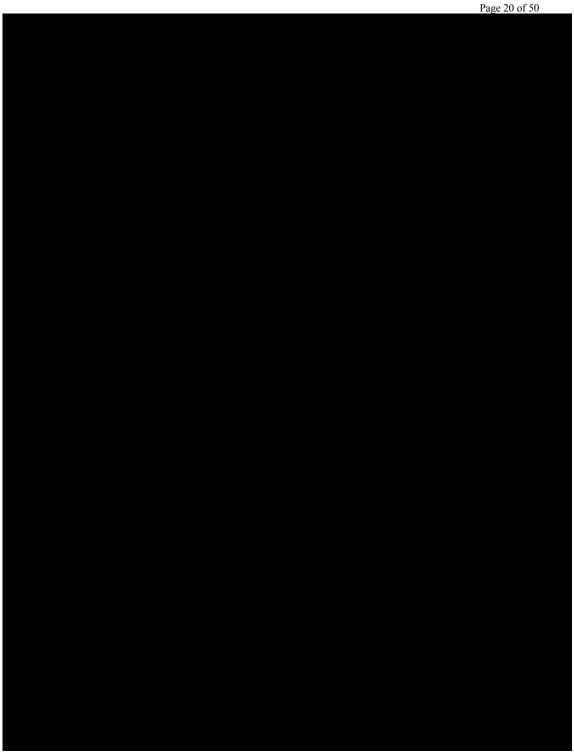
Page 19 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 20 of 50

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170

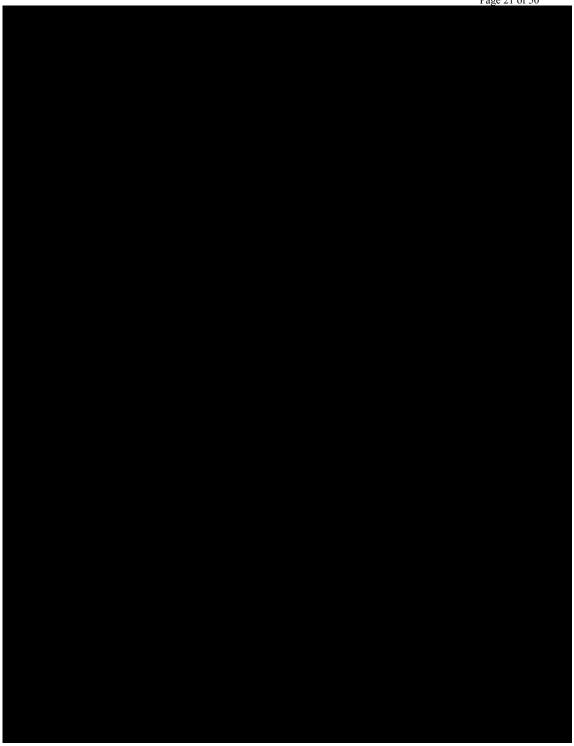




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 21 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

Page 21 of 50

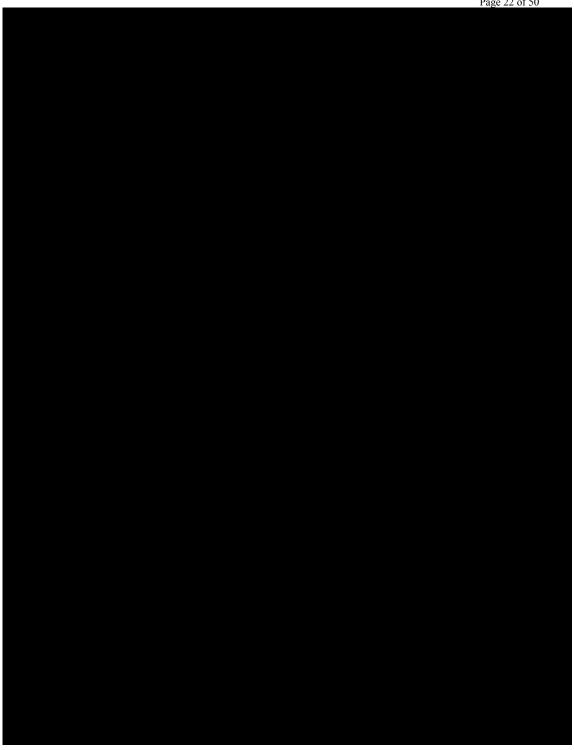




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 22 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

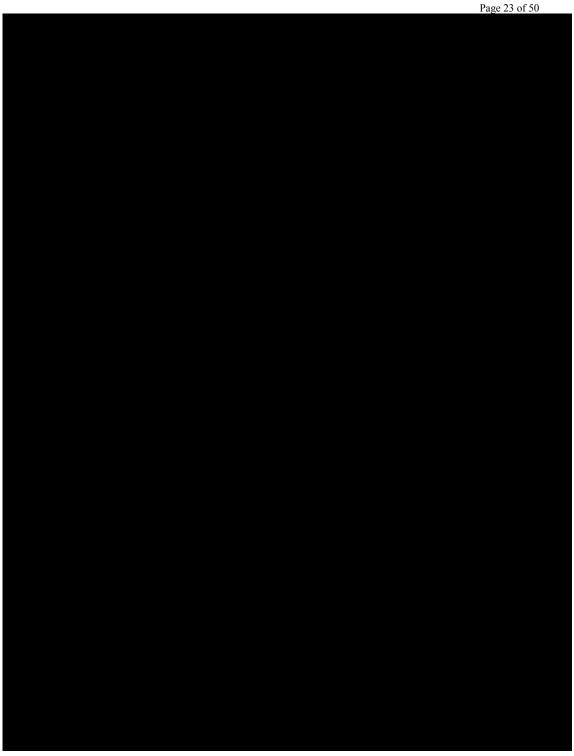
Page 22 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 23 of 50

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170

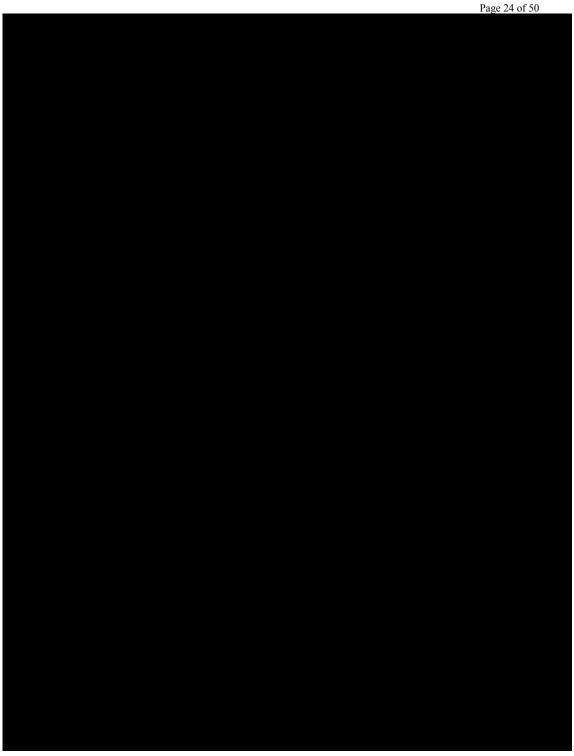




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 24 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

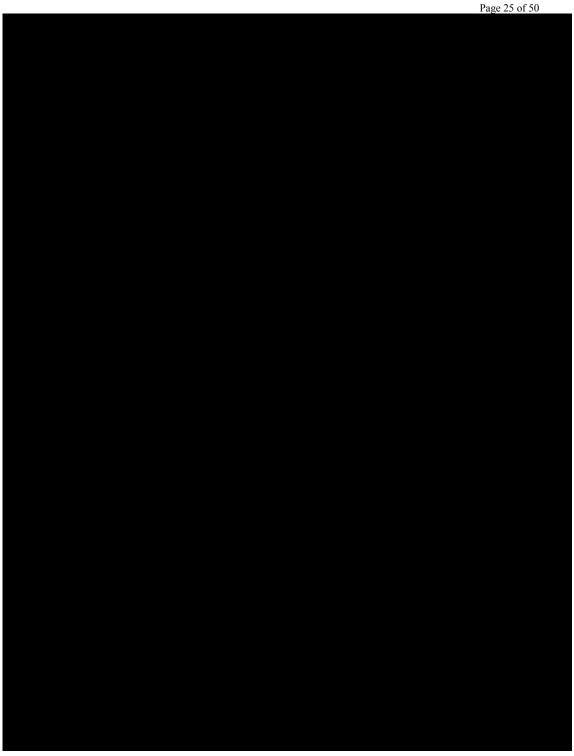
D.P.U. 17-170 Attachment AG-21-39-12





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 25 of 50

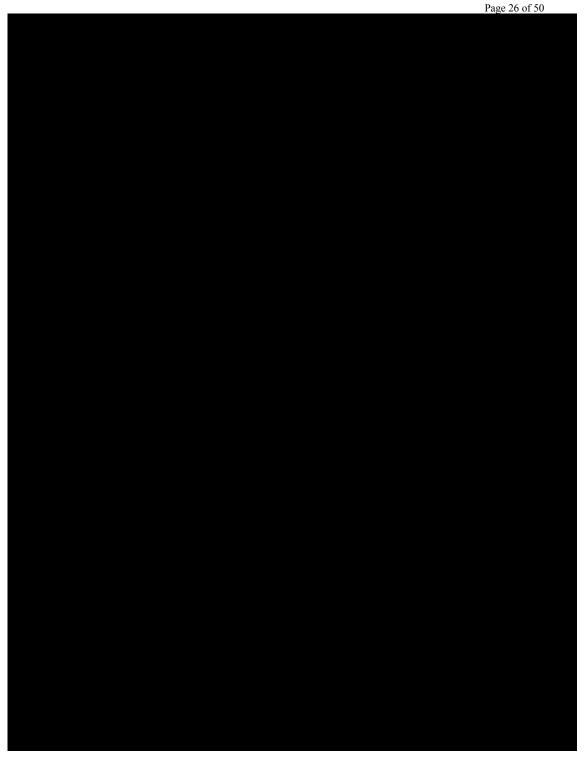
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 26 of 50

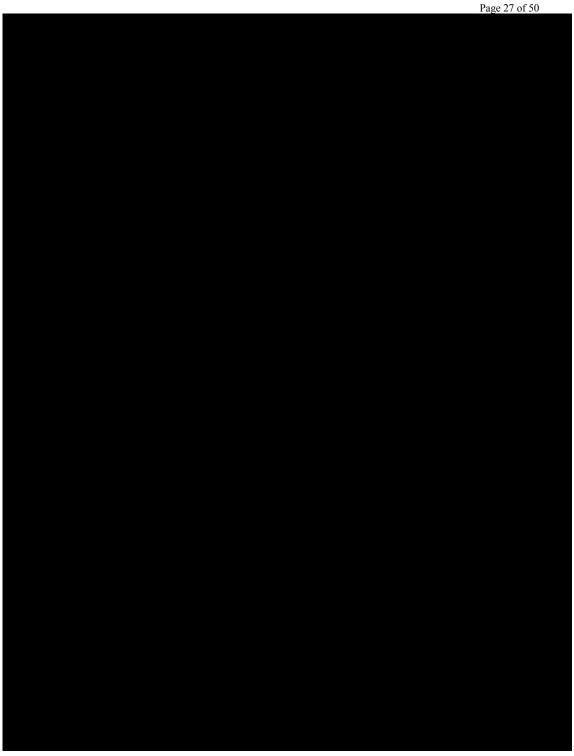
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 27 of 50

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170

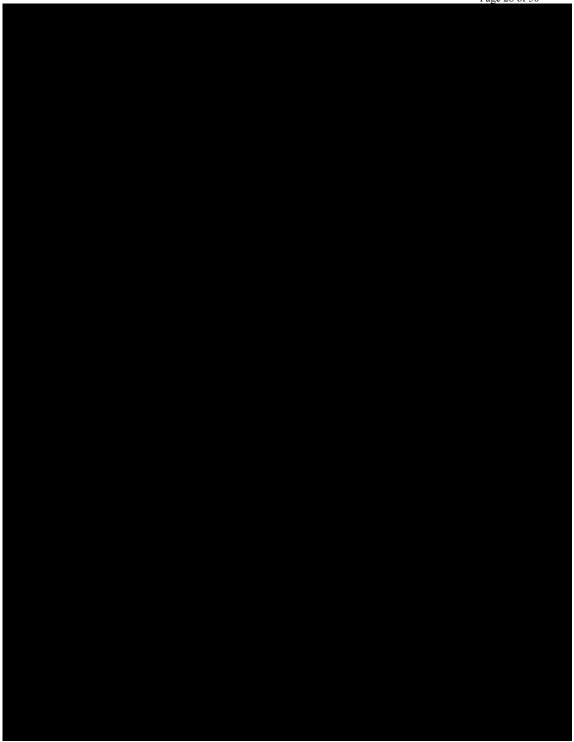




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 28 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

Page 28 of 50

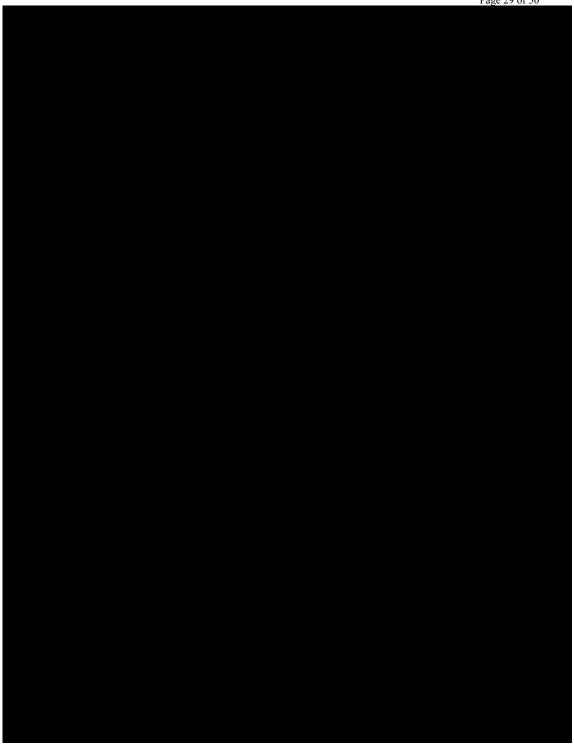




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 29 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

Page 29 of 50

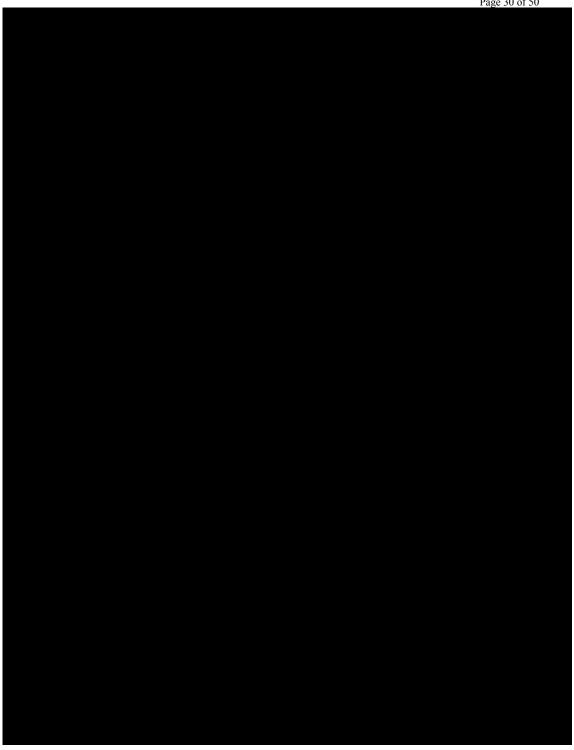




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 30 of 50

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-12

Page 30 of 50

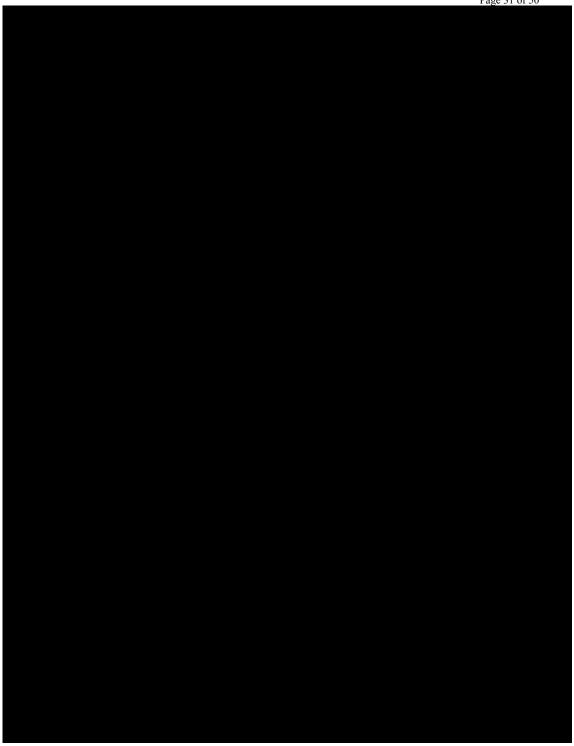




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 31 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

Page 31 of 50

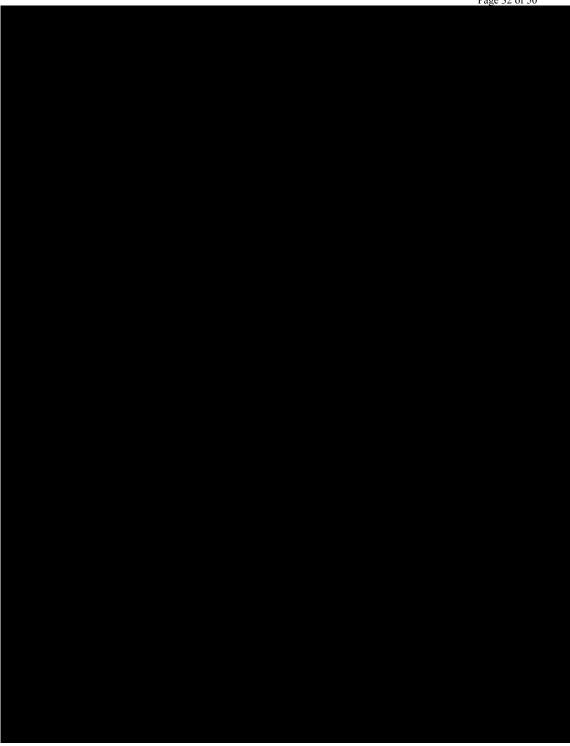




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 32 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

Page 32 of 50

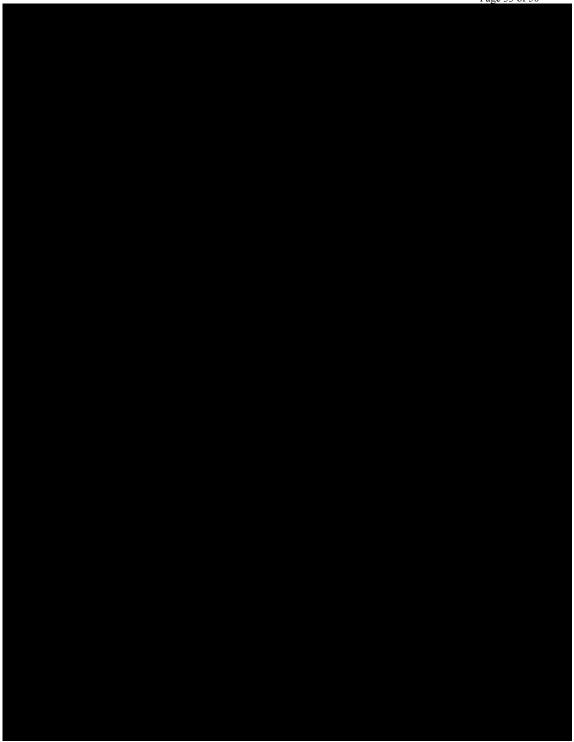




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 33 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

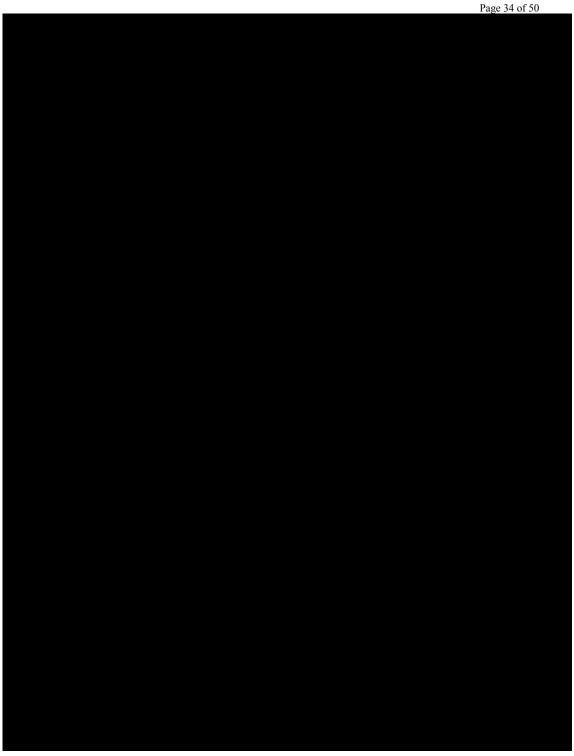
Page 33 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 34 of 50

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-12

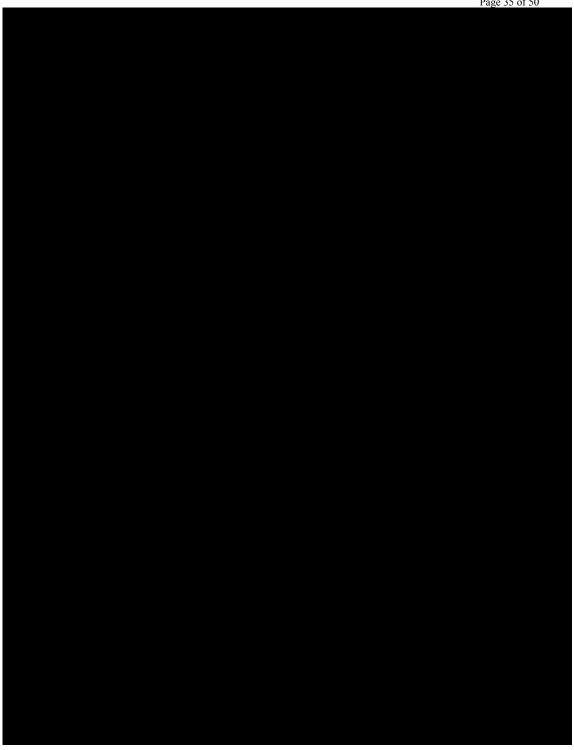




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 35 of 50

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-12

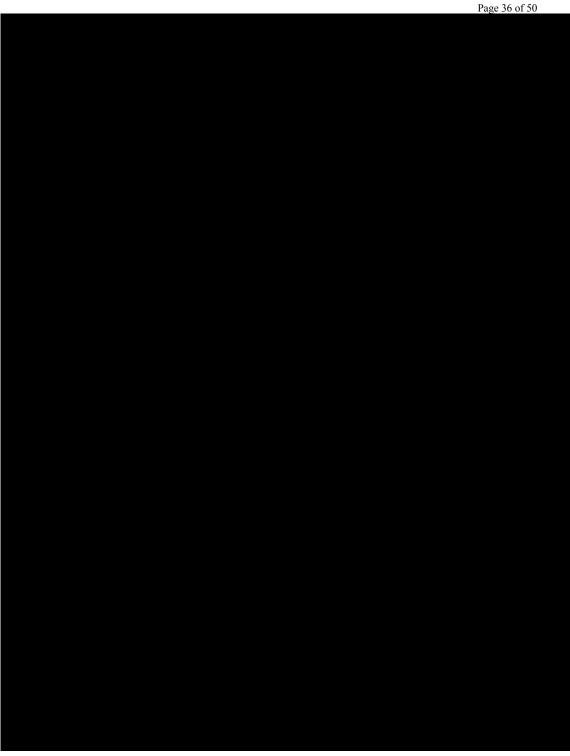
Page 35 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 36 of 50

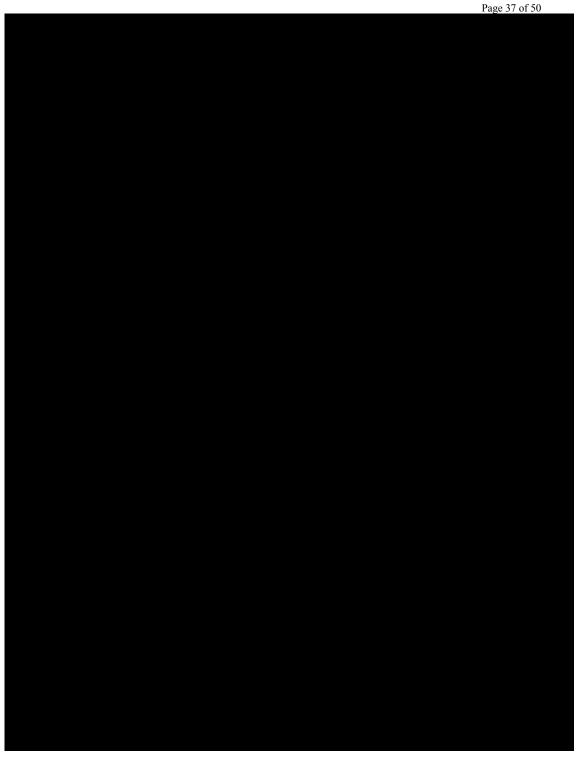
Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 37 of 50

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170

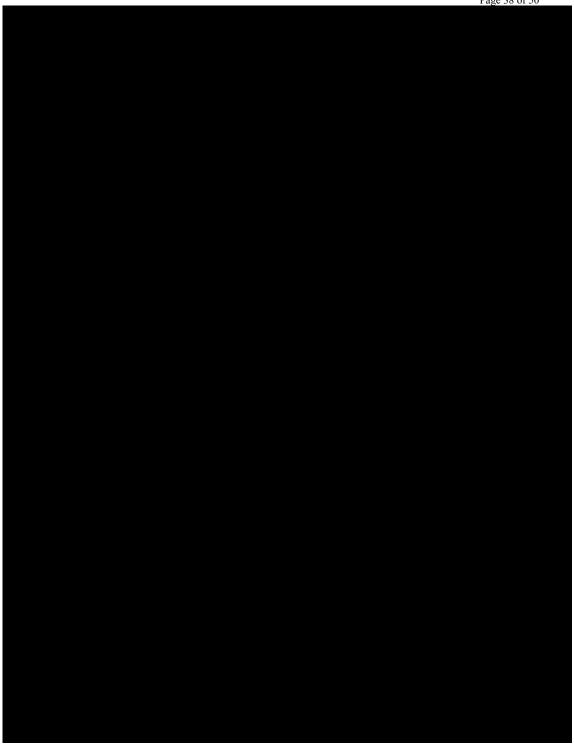




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 38 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

Page 38 of 50

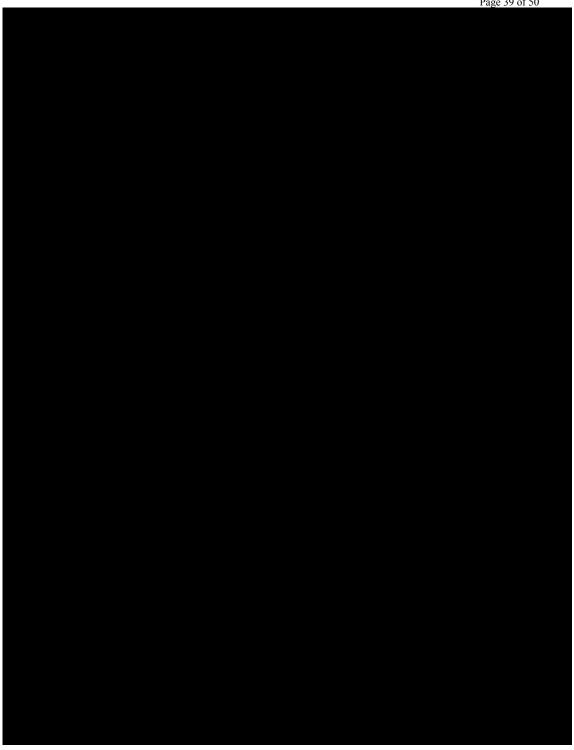




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 39 of 50

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-12

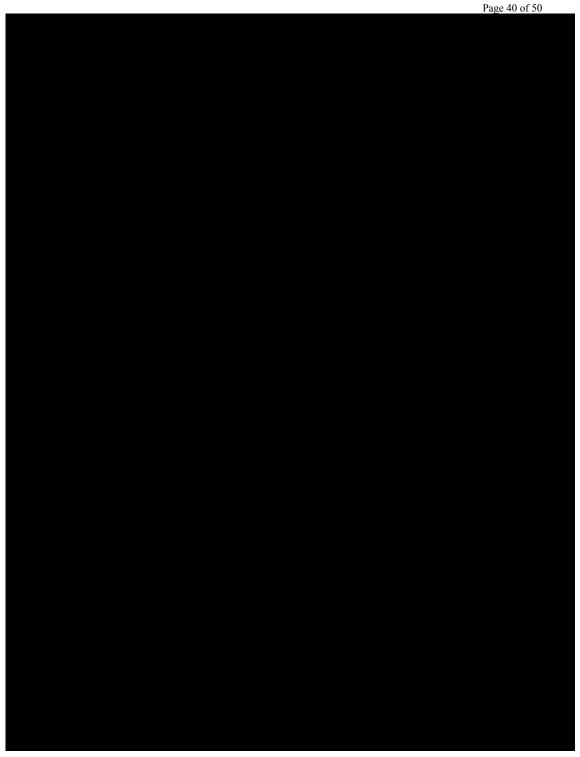
Page 39 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 40 of 50

Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

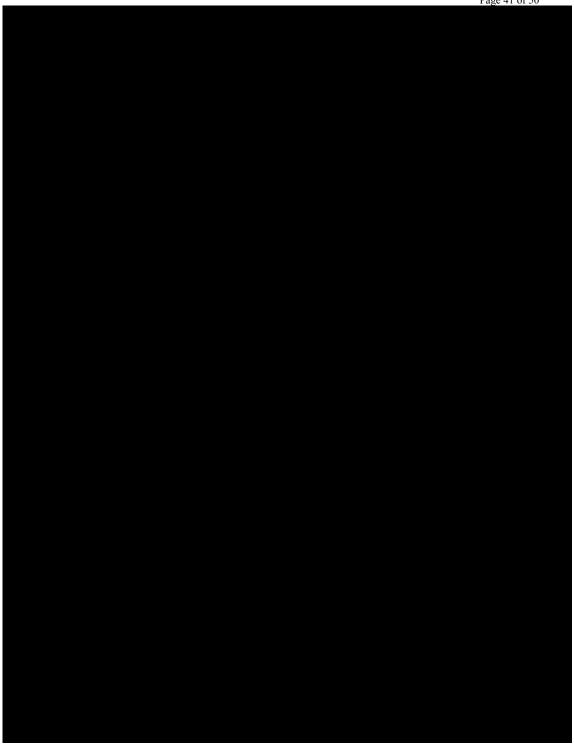




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 41 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

Page 41 of 50

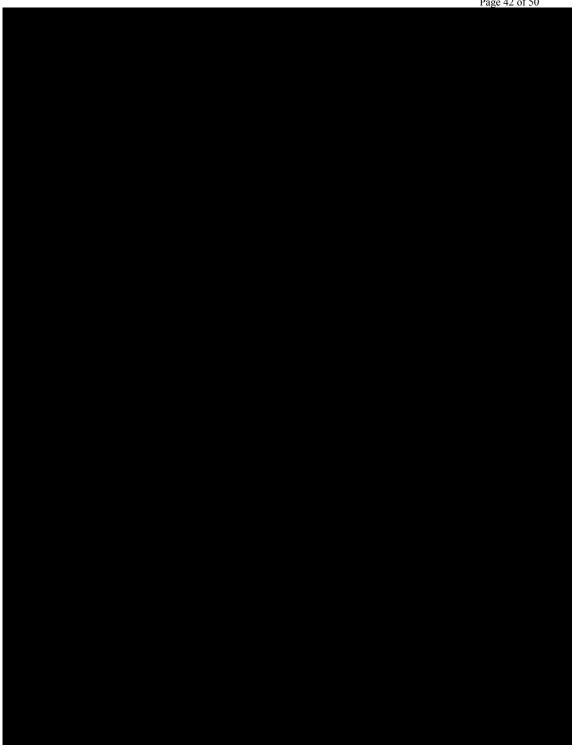




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 42 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

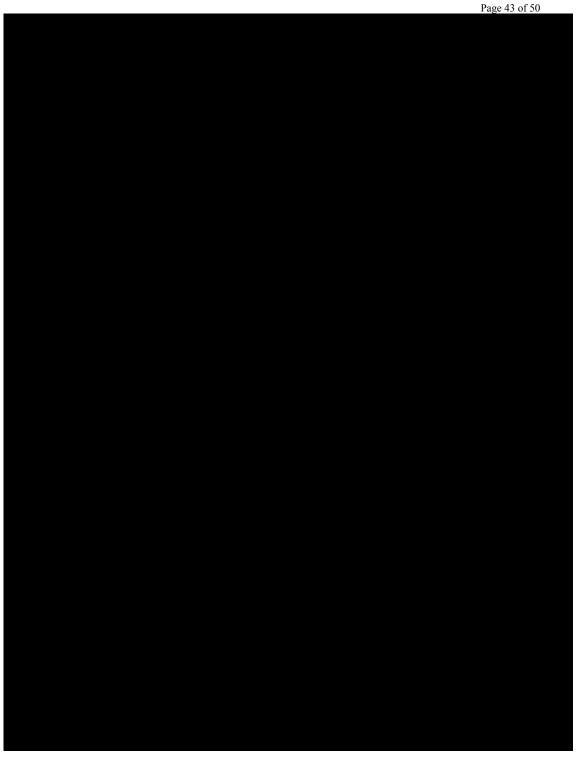
Page 42 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 43 of 50

Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

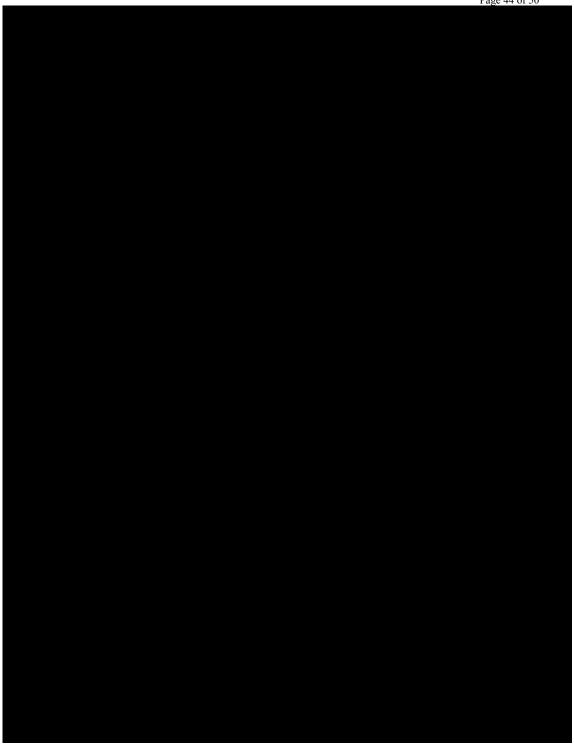




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 44 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

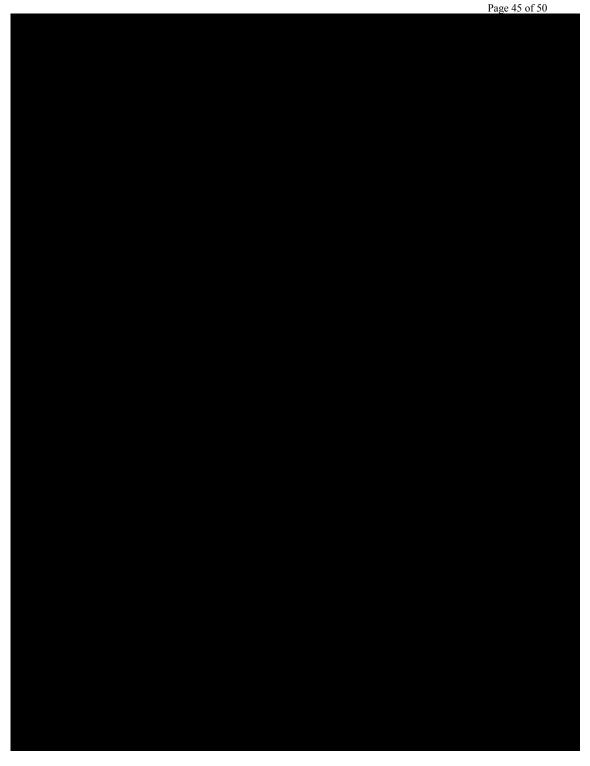
Page 44 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 45 of 50

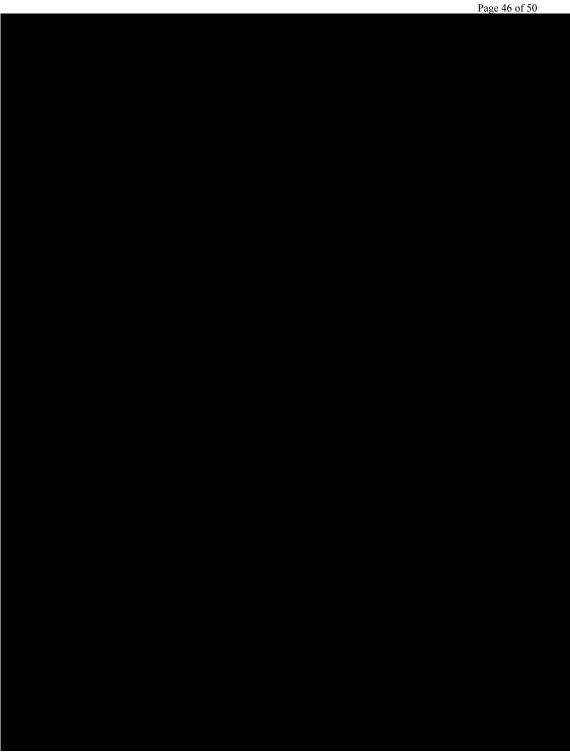
Boston Gas Company and Colonial Gas Company each d/b/a National Grid D.P.U. 17-170





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 46 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170

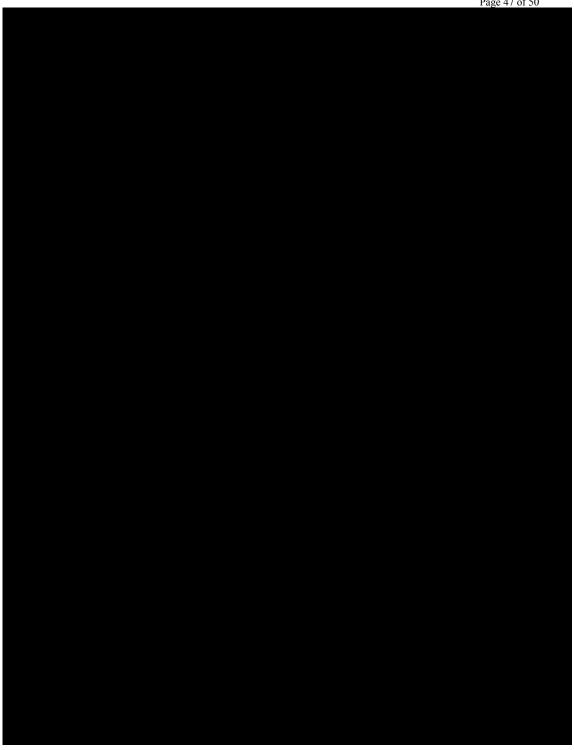




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 47 of 50

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-12

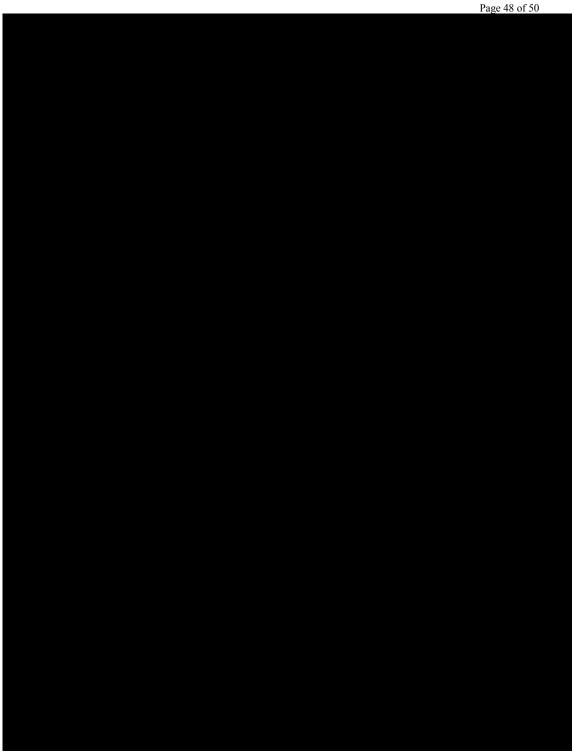
Page 47 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 48 of 50

Boston Gas Company and Colonial Gas Company each d/b/a National Grid **REDACTED** D.P.U. 17-170 Attachment AG-21-39-12

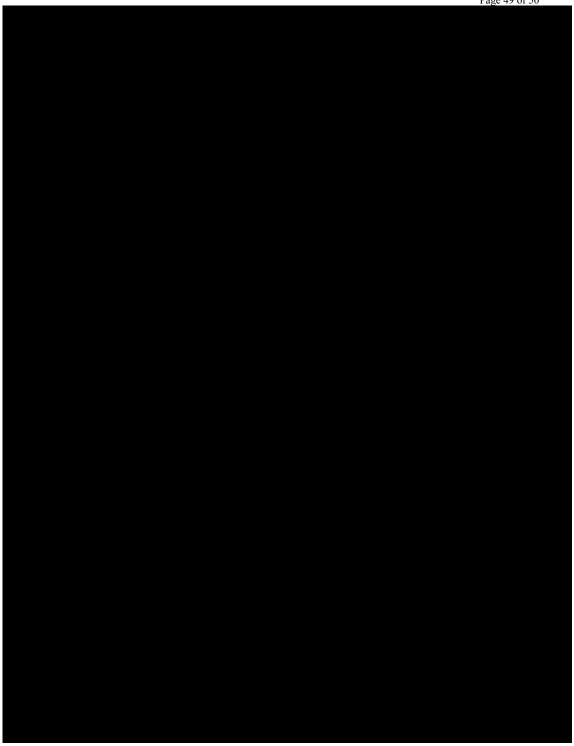




The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 49 of 50

Boston Gas Company and Colonial Gas Company
REDACTED
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-12

Page 49 of 50





The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4770 Attachment DIV 7-49-223 Page 50 of 50

Boston Gas Company and Colonial Gas Company
REDACTED each d/b/a National Grid
D.P.U. 17-170

