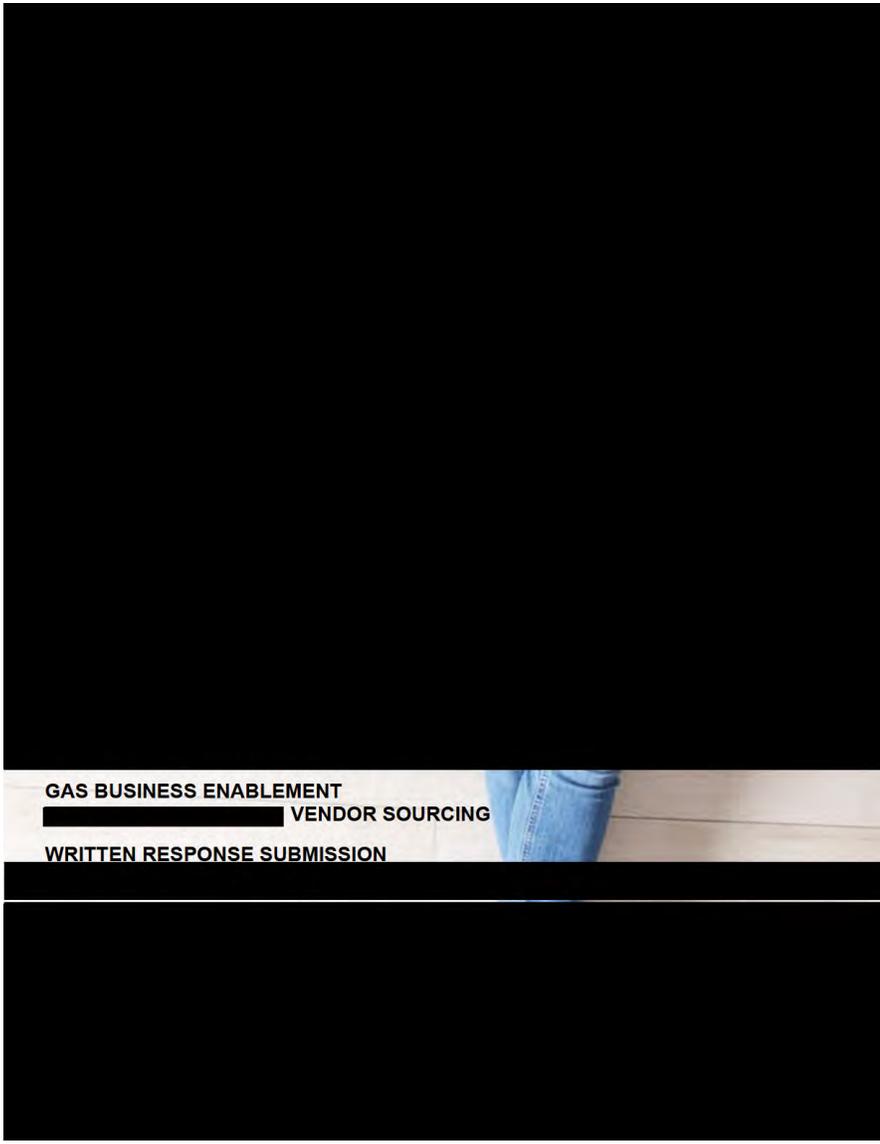


REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 1 of 137

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 1 of 137

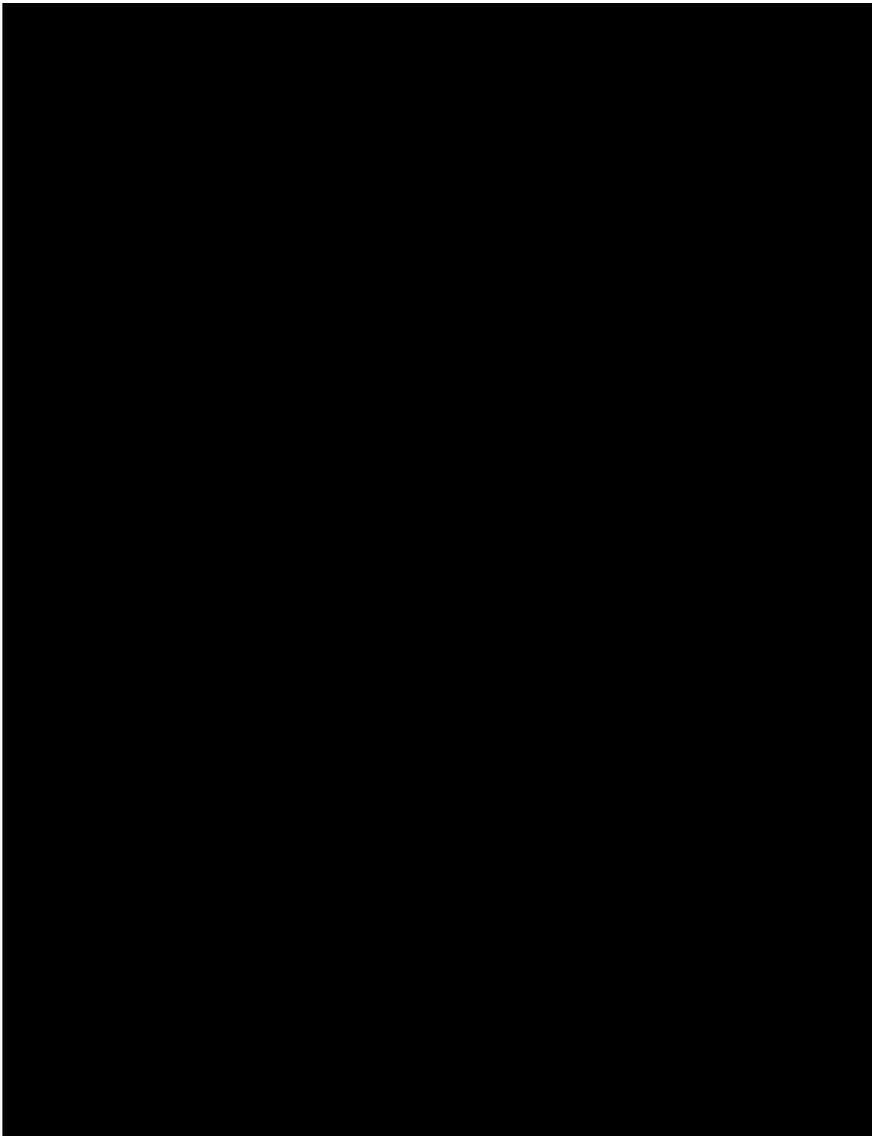


GAS BUSINESS ENABLEMENT
VENDOR SOURCING
WRITTEN RESPONSE SUBMISSION

REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 2 of 137

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 2 of 137



Gas Business Enablement – [REDACTED] Sourcing

Work Stream 4. Asset Management

MODULE 4. AM TABLE OF CONTENT

MODULE 4. AM TABLE OF CONTENT 3

1. KEY AND CRITICAL SUPPORT PERSONNEL 6

2. PROJECT PLAN, [REDACTED] 7

3. RESOURCE PLANNING [REDACTED] 8

4. MODULE INITIATIVES [REDACTED] 9

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

5. PROPOSED [REDACTED] METHODOLOGIES 17

6. KEY PROGRAM [REDACTED] REQUIREMENTS 19

7. [REDACTED] ASSUMPTIONS 21

[REDACTED]

8. ESTIMATION FACTORS USED FOR WORK EFFORT ESTIMATES / STAFFING ASSUMPTIONS 26

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

9. [REDACTED] DOCUMENTATION 32

10. [REDACTED] 33

11. APPENDIX 34

[REDACTED]

[REDACTED]

[REDACTED]

12. [REDACTED] CLARIFYING QUESTIONS FOR WRITTEN SUBMISSION 41

[REDACTED]

[REDACTED]

MODULE 5. AMGIS TABLE OF CONTENTS 45

1. KEY AND CRITICAL SUPPORT PERSONNEL 46

2. PROJECT PLAN, [REDACTED] 47

3. RESOURCE PLANNING [REDACTED] 48

4. MODULE INITIATIVES [REDACTED] 49

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

5. PROPOSED [REDACTED] METHODOLOGIES 55



Gas Business Enablement – SI Vendor Agile Sourcing

Work Stream 4. Asset Management

6. KEY PROGRAM [REDACTED] REQUIREMENTS 56

7. [REDACTED] ASSUMPTIONS 58

[REDACTED]

8. ESTIMATION FACTORS USED FOR [REDACTED] ASSUMPTIONS 64

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

9. [REDACTED] 71

10. [REDACTED] 72

11. APPENDIX 73

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

12. CLARIFYING QUESTIONS FOR WRITTEN SUBMISSION 86

[REDACTED]

[REDACTED]

MODULE 6. CE TABLE OF CONTENTS 91

1. KEY AND CRITICAL SUPPORT PERSONNEL 92

2. PROJECT PLAN, [REDACTED] 93

3. RESOURCE PLANNING [REDACTED] 94

4. MODULE PROJECT [REDACTED] 95

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

5. PROPOSED [REDACTED] METHODOLOGIES 101

6. KEY PROGRAM [REDACTED] REQUIREMENTS 102

7. [REDACTED] ASSUMPTIONS 104

[REDACTED]

[REDACTED]

8. ESTIMATION FACTORS USED FOR [REDACTED] ASSUMPTIONS 112

[REDACTED]

[REDACTED]

[REDACTED]



Gas Business Enablement – SI Vendor Agile Sourcing

Work Stream 4. Asset Management

[REDACTED]

9. [REDACTED] DOCUMENTATION 118

10. [REDACTED] .. 121

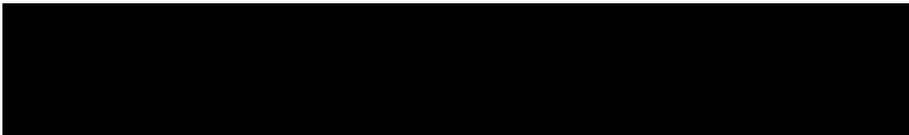
11. APPENDIX 122

[REDACTED]

[REDACTED]

[REDACTED]

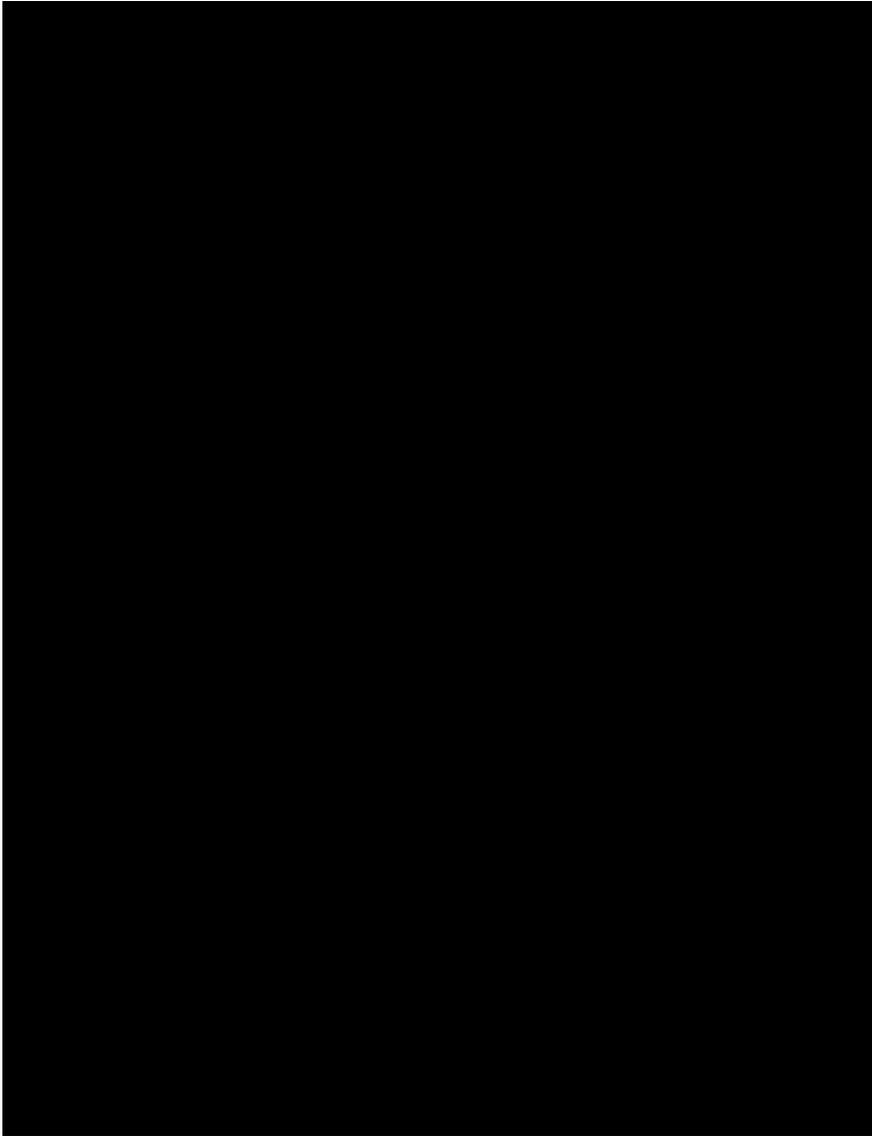
12. [REDACTED] CLARIFYING QUESTIONS FOR WRITTEN SUBMISSION..... 134



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 6 of 137

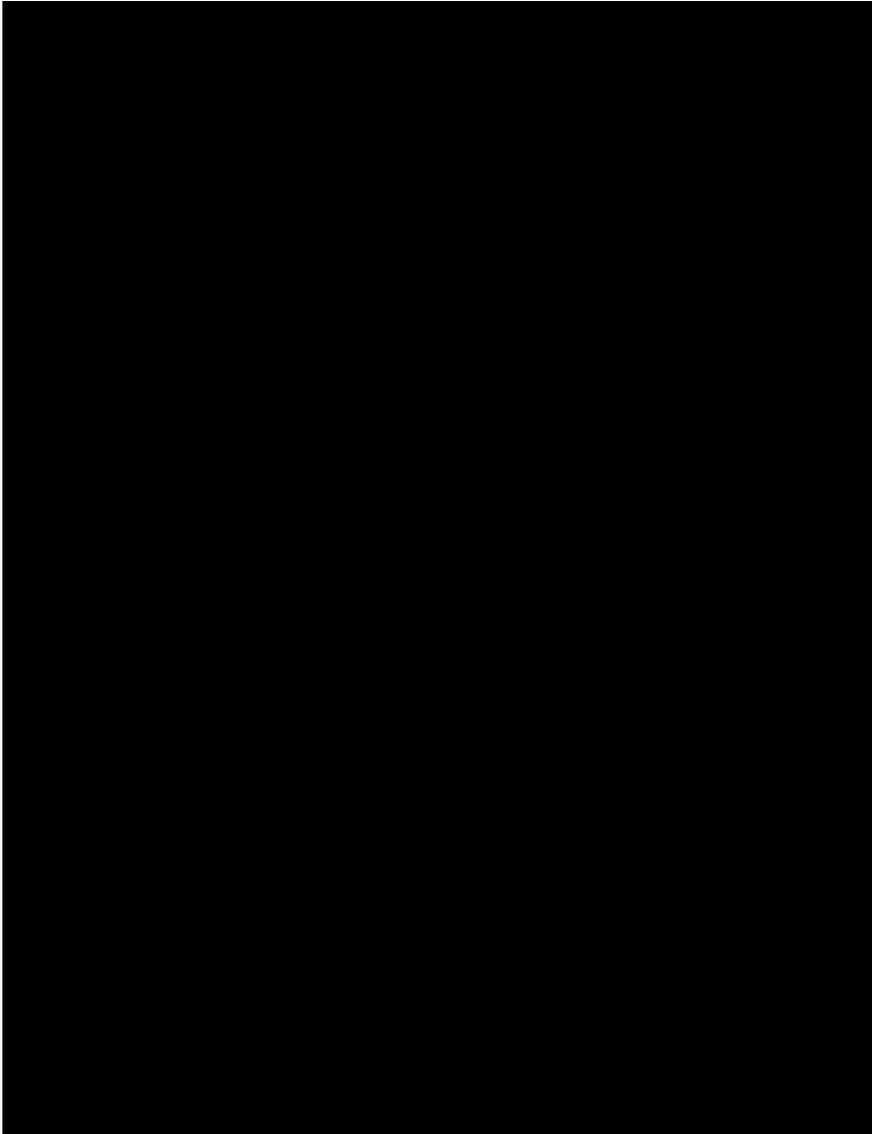
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 6 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 7 of 137

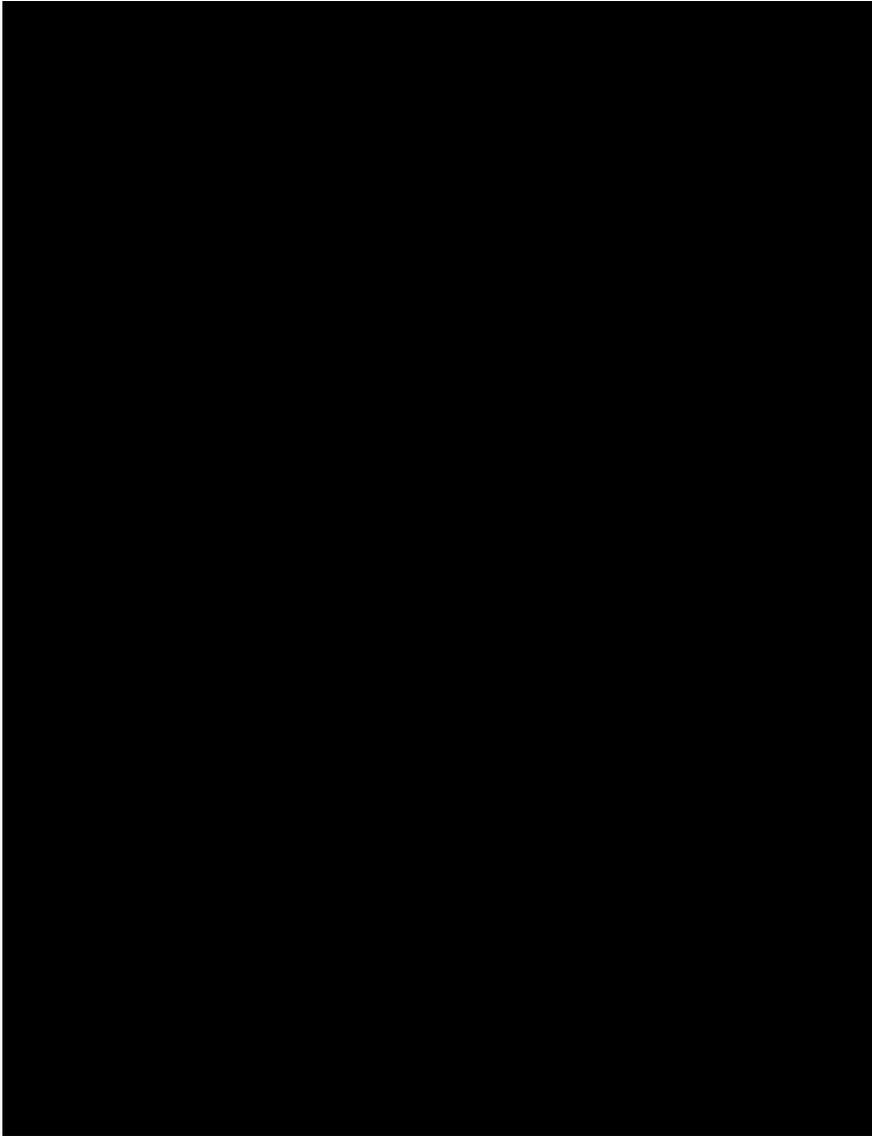
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 7 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 8 of 137

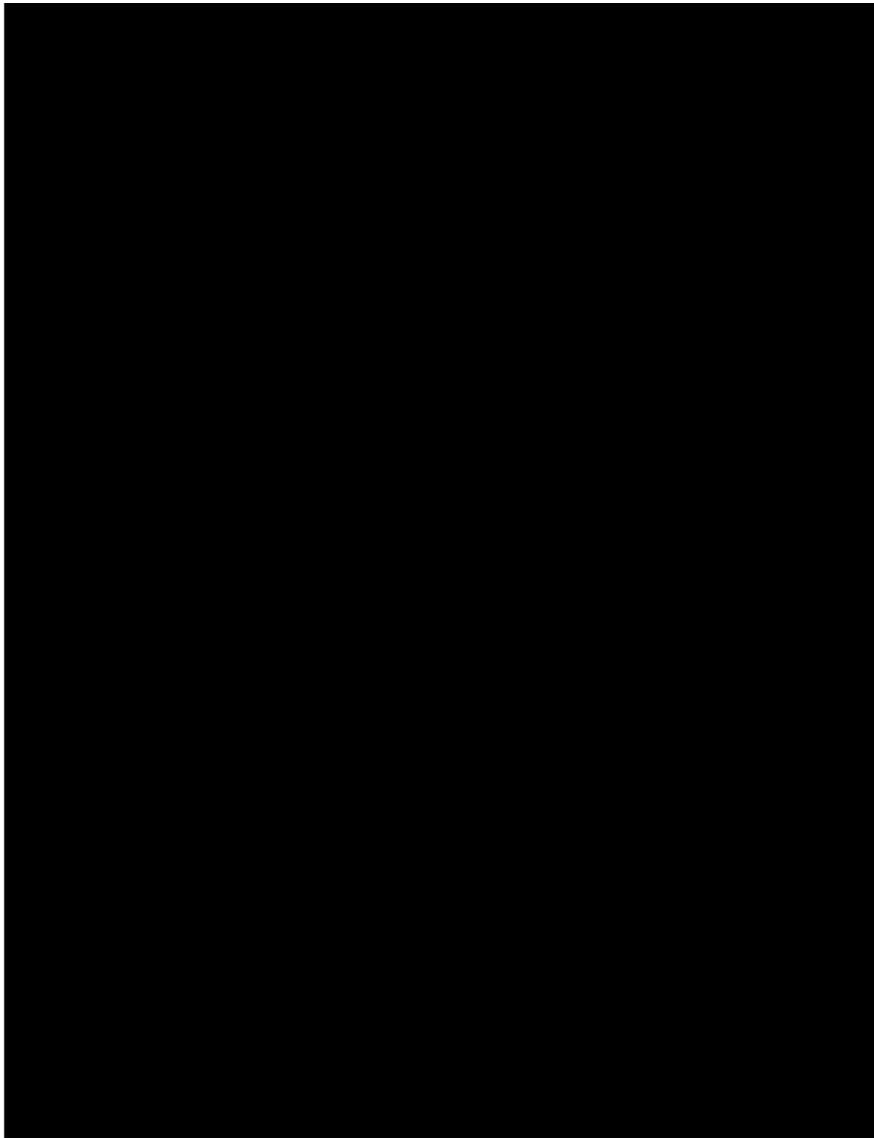
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 8 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 9 of 137

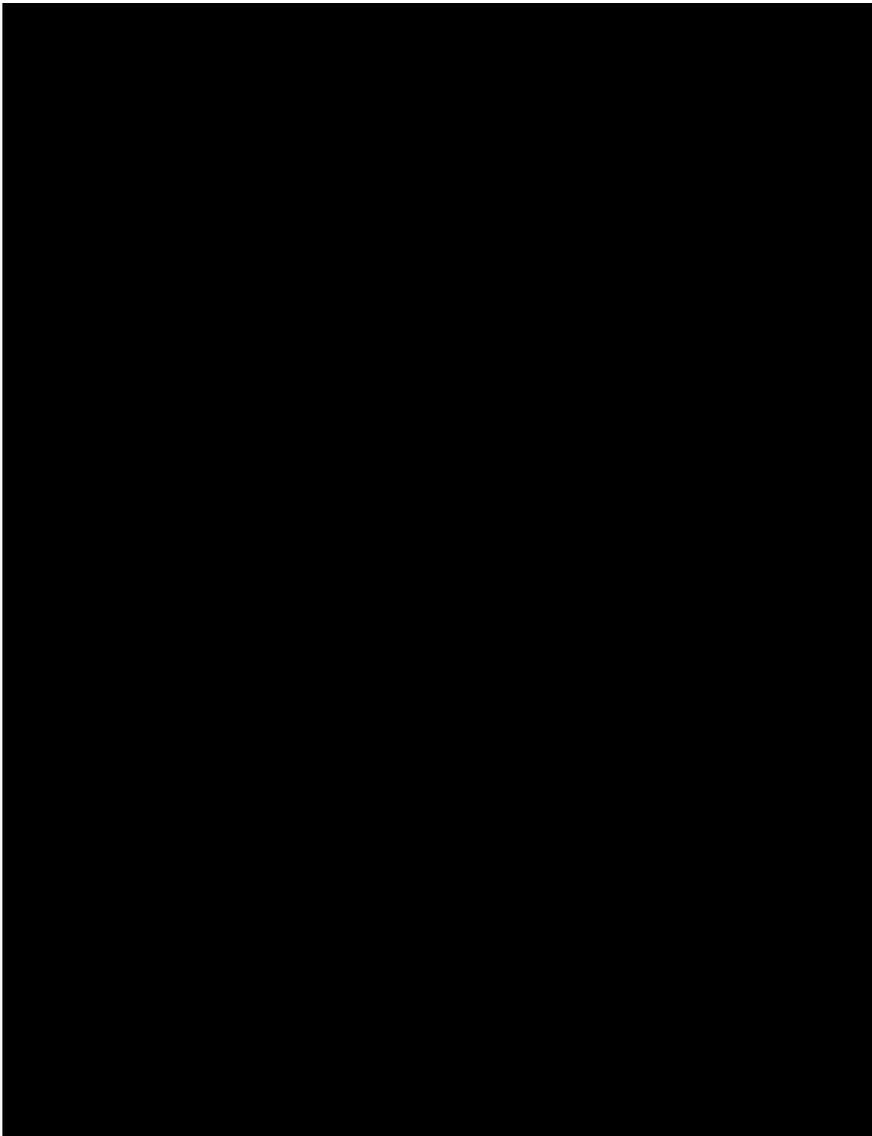
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 9 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 10 of 137

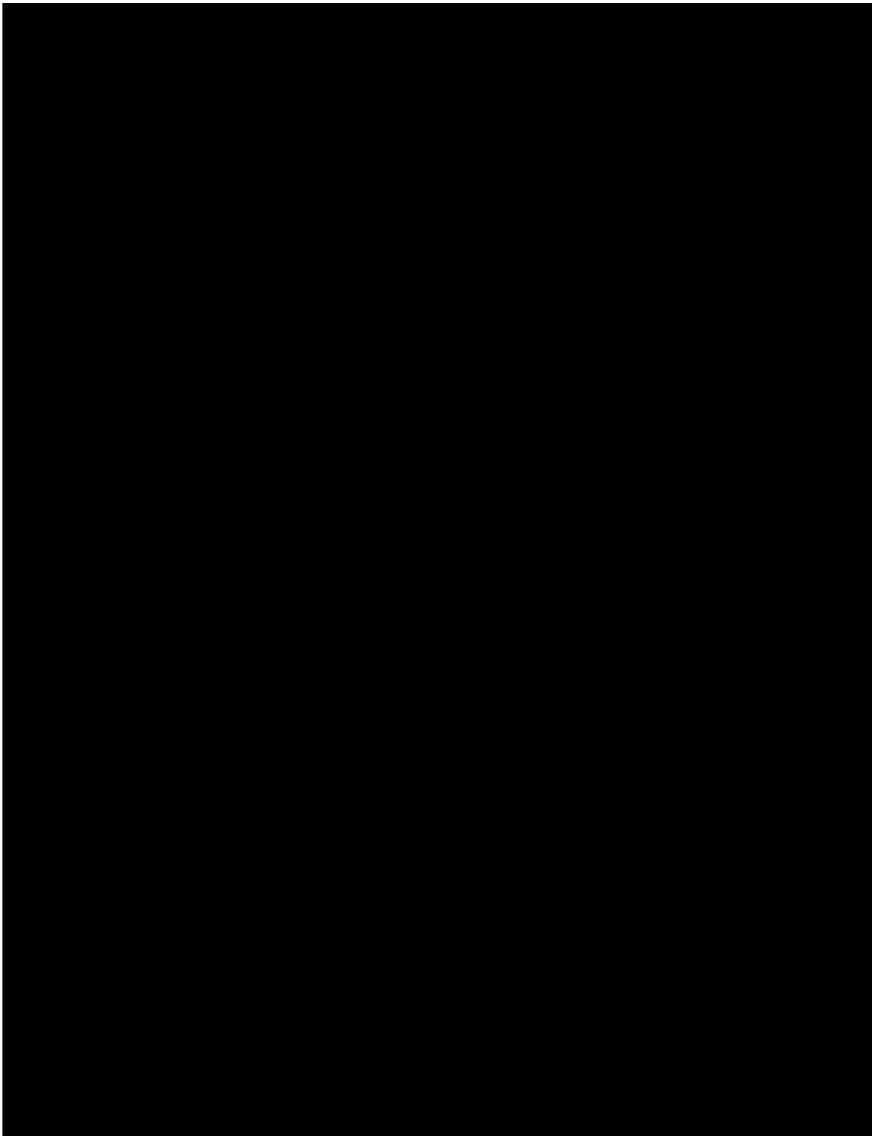
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 10 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 11 of 137

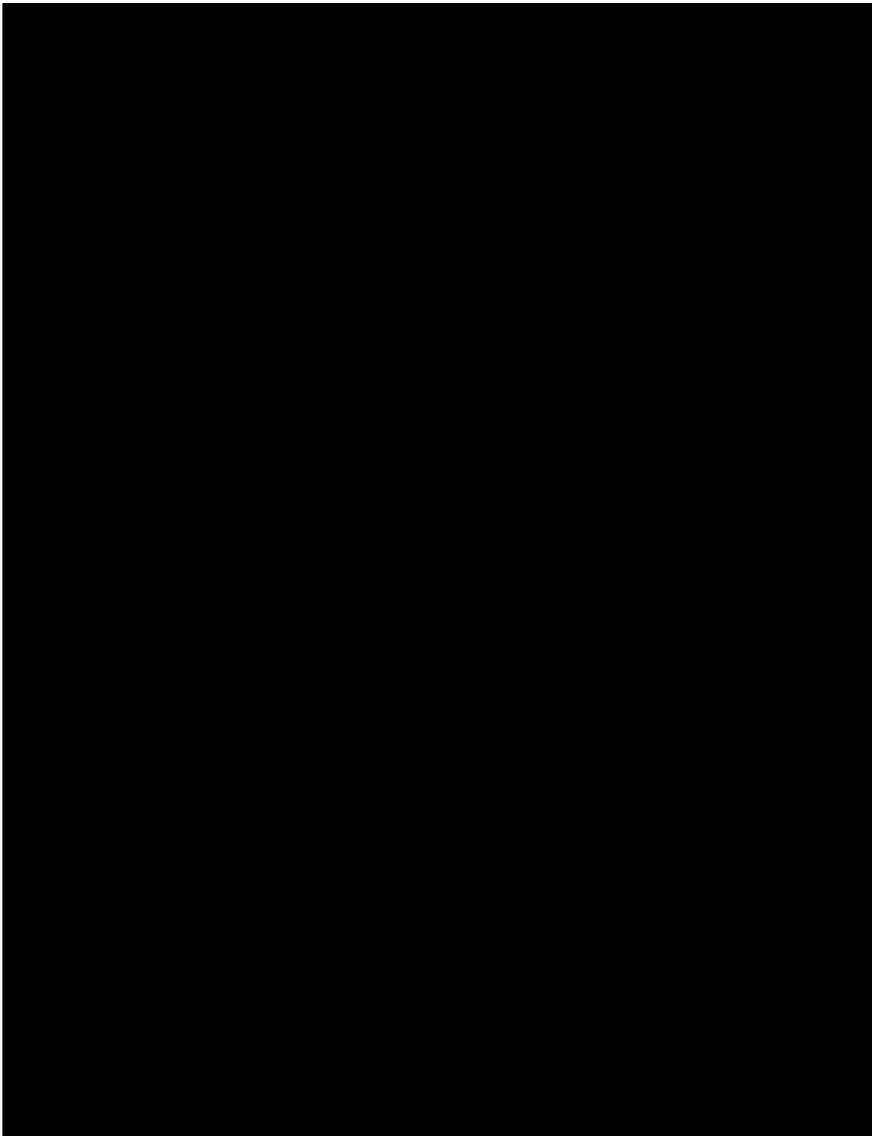
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 11 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 12 of 137

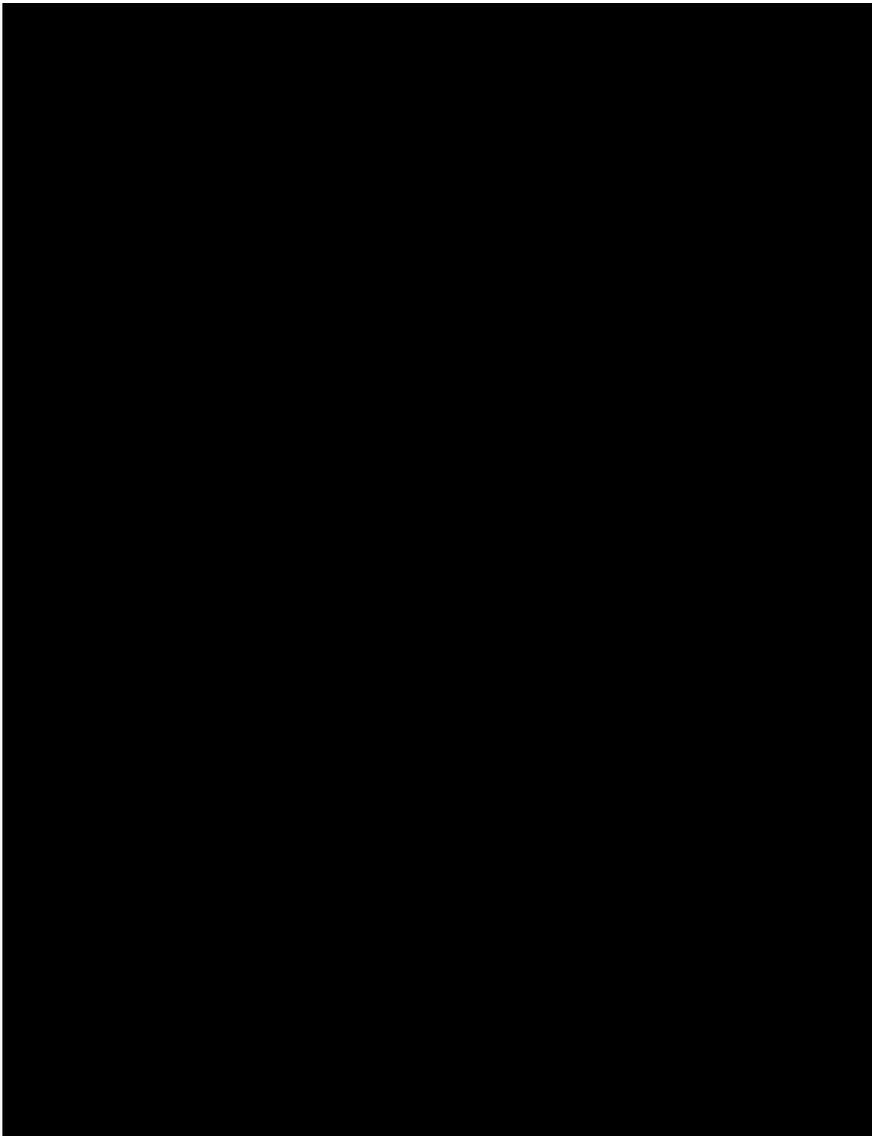
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 12 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 13 of 137

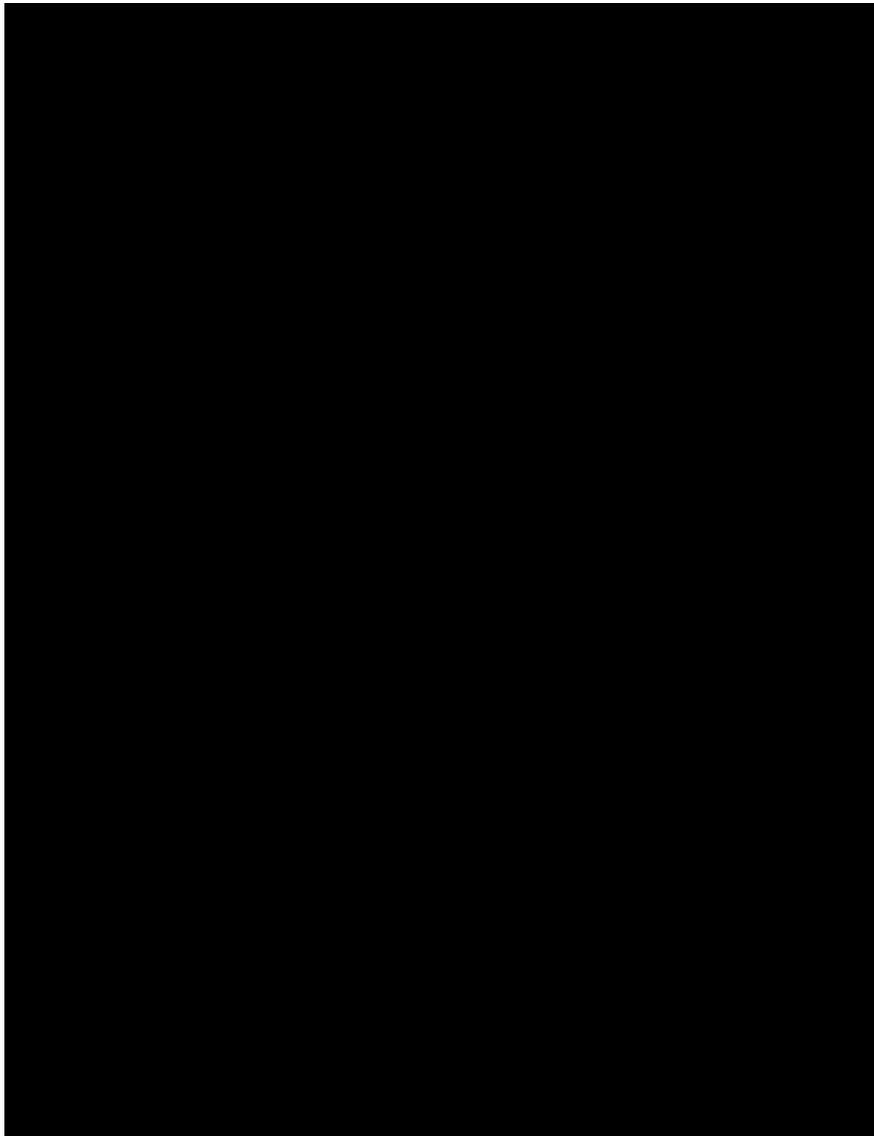
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 13 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 14 of 137

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 14 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 15 of 137

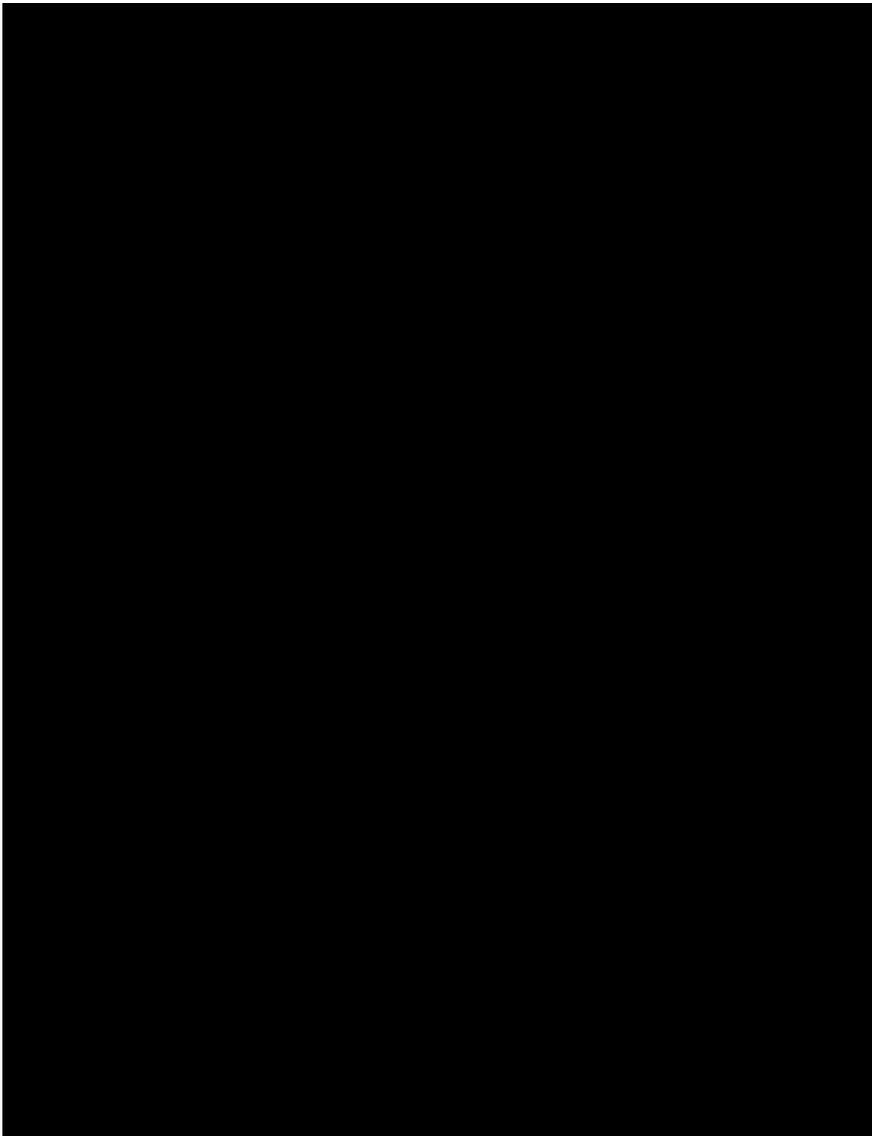
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 15 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 16 of 137

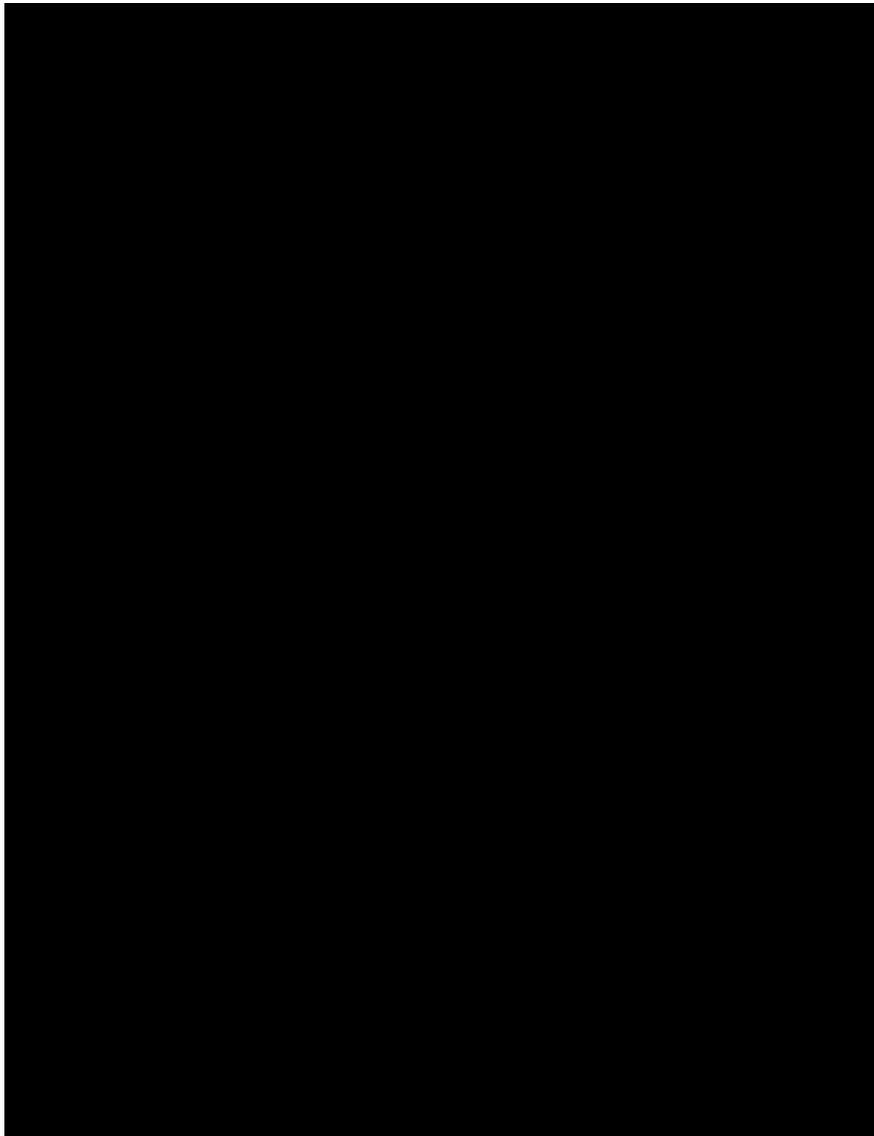
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 16 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 17 of 137

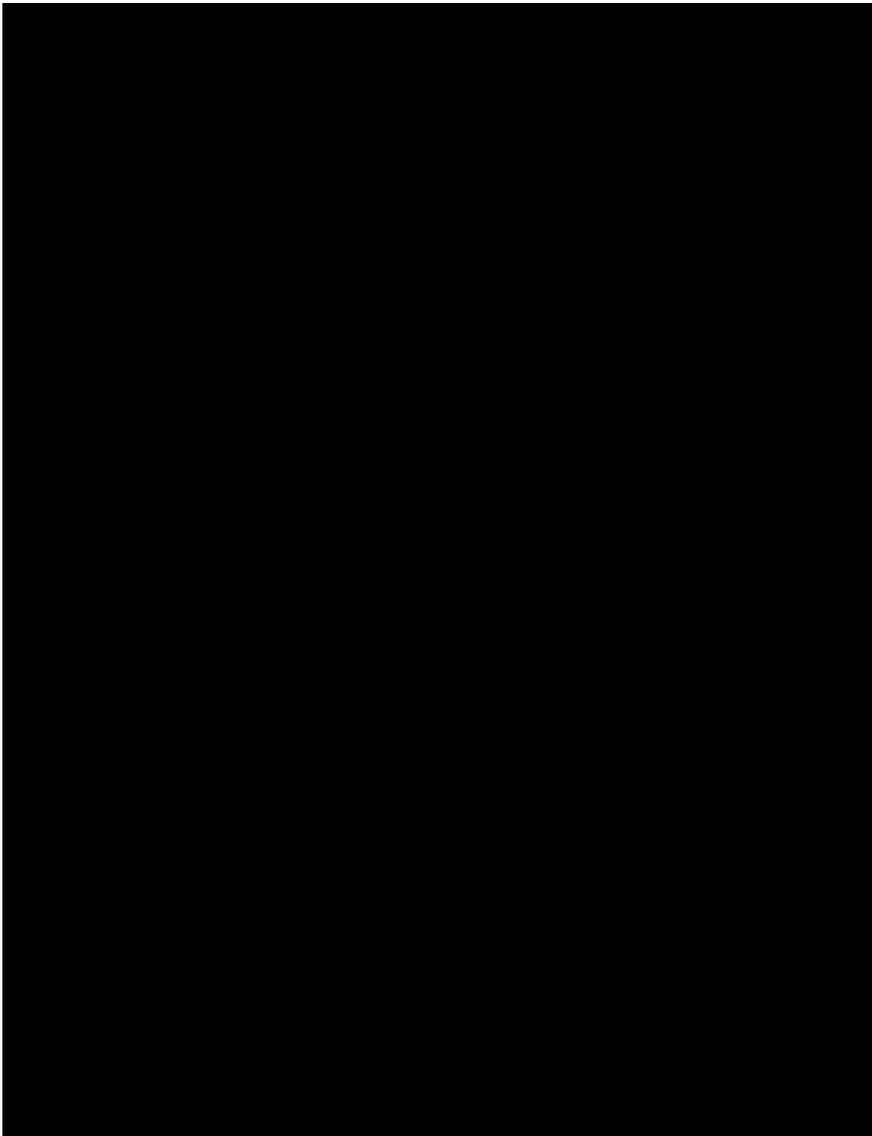
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 17 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 18 of 137

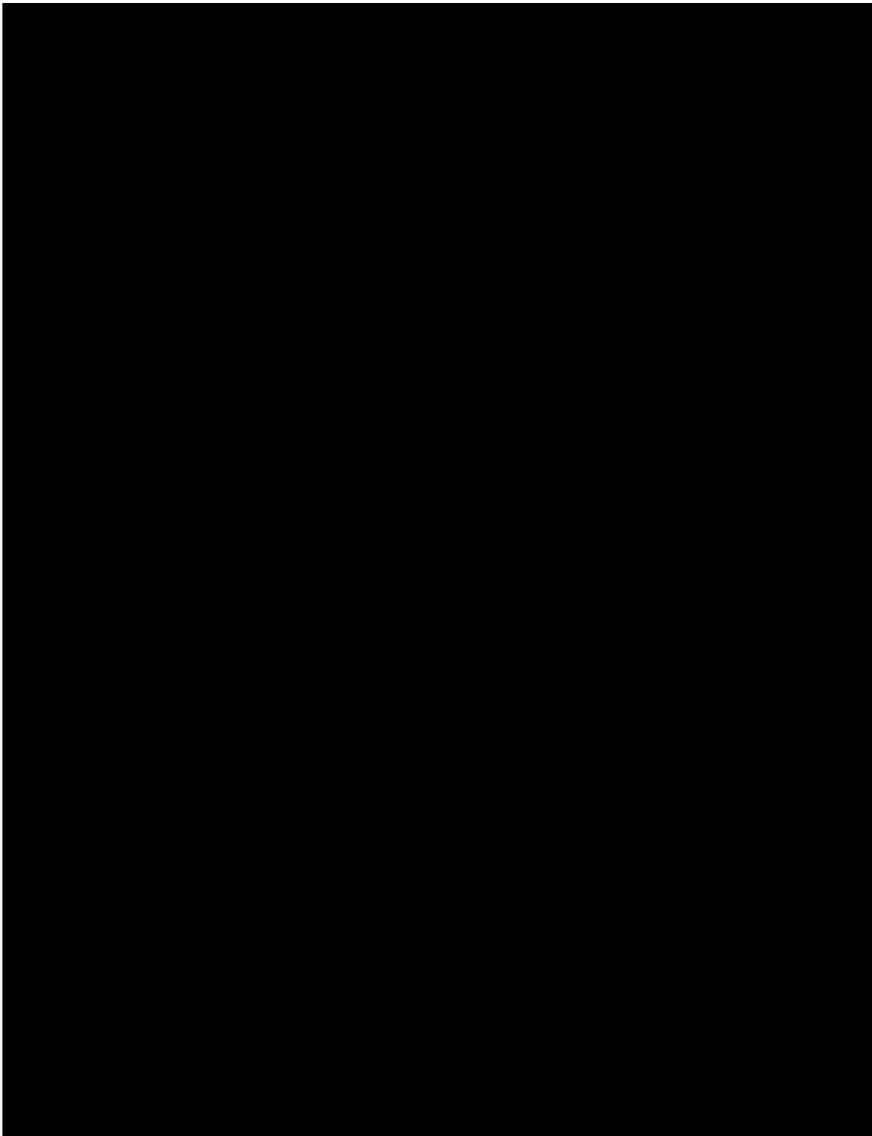
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 18 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 19 of 137

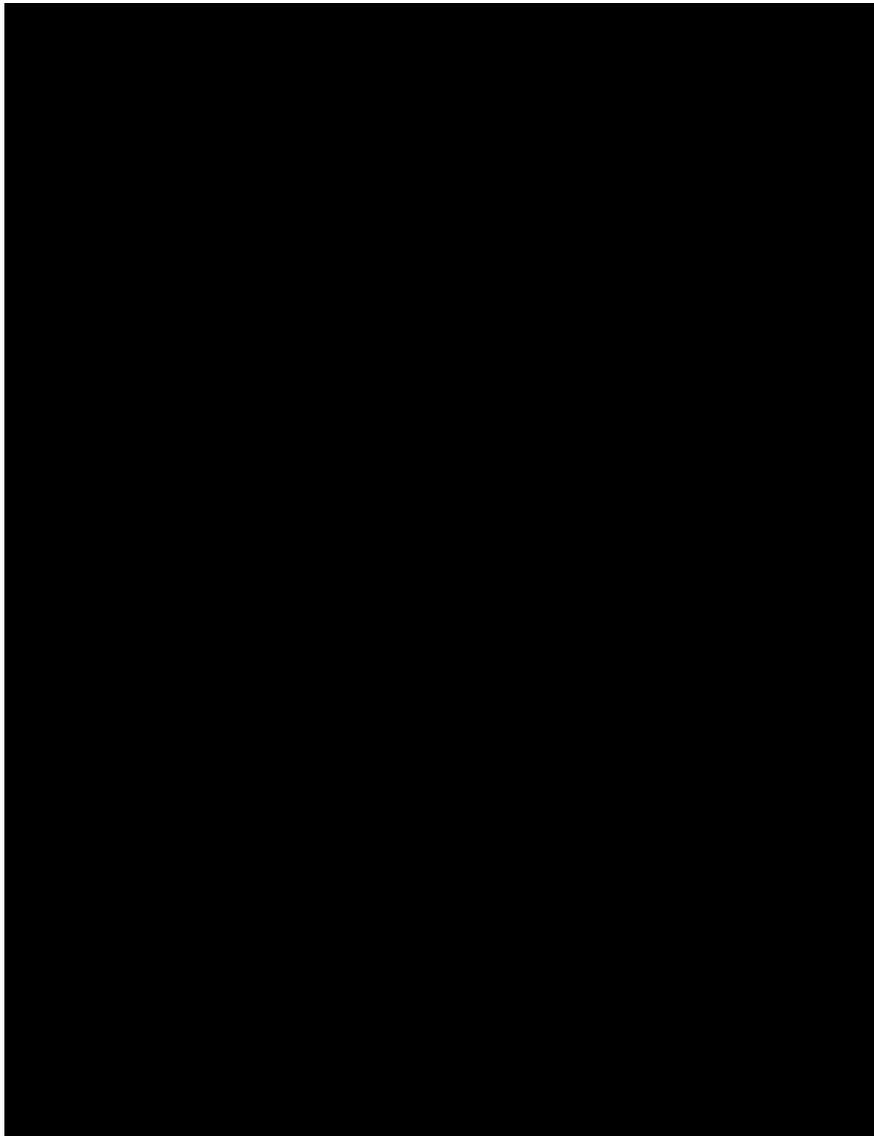
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 19 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 20 of 137

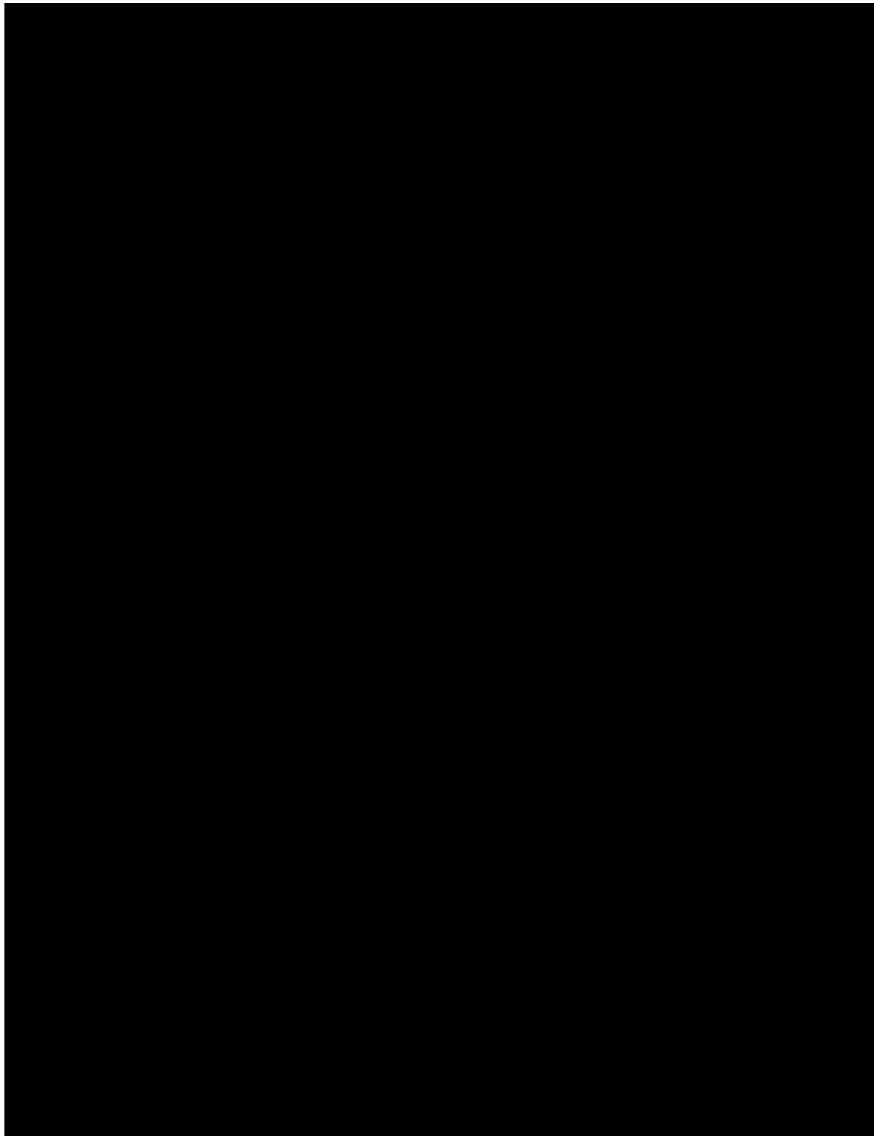
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 20 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 21 of 137

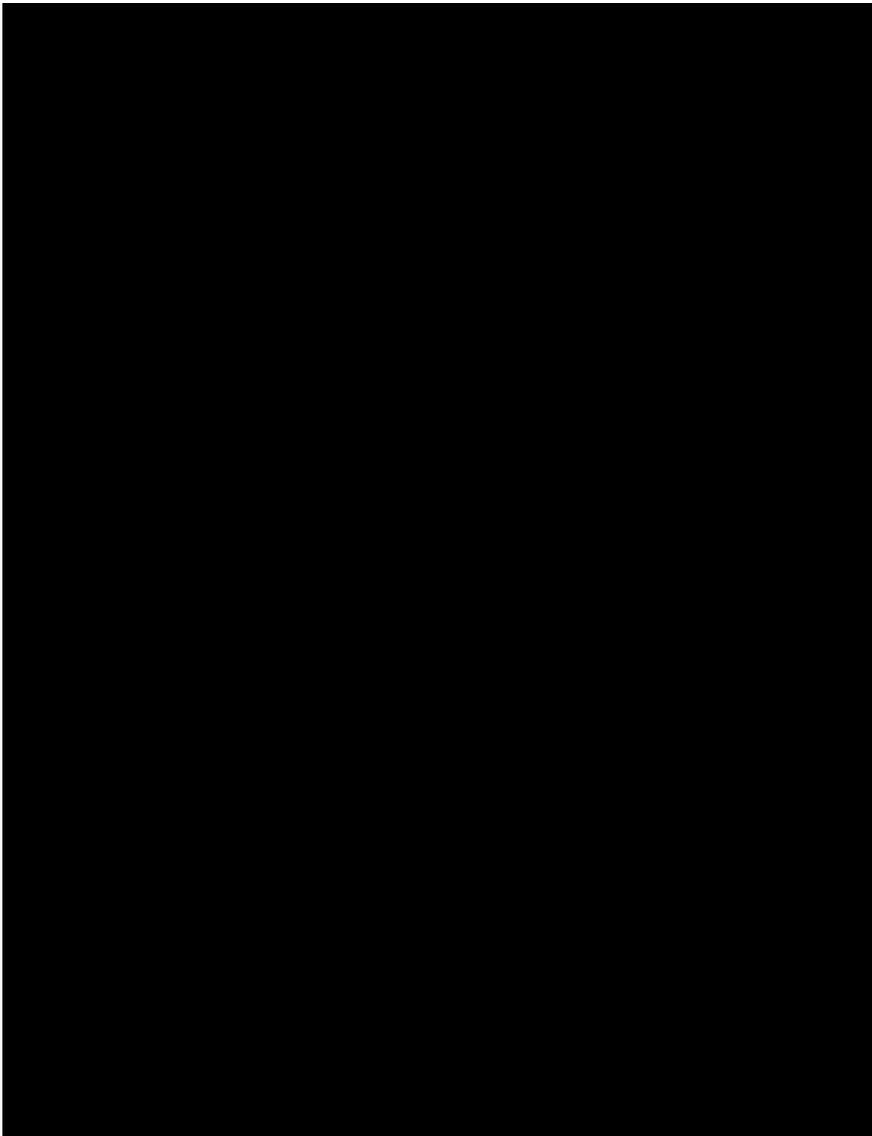
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 21 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 22 of 137

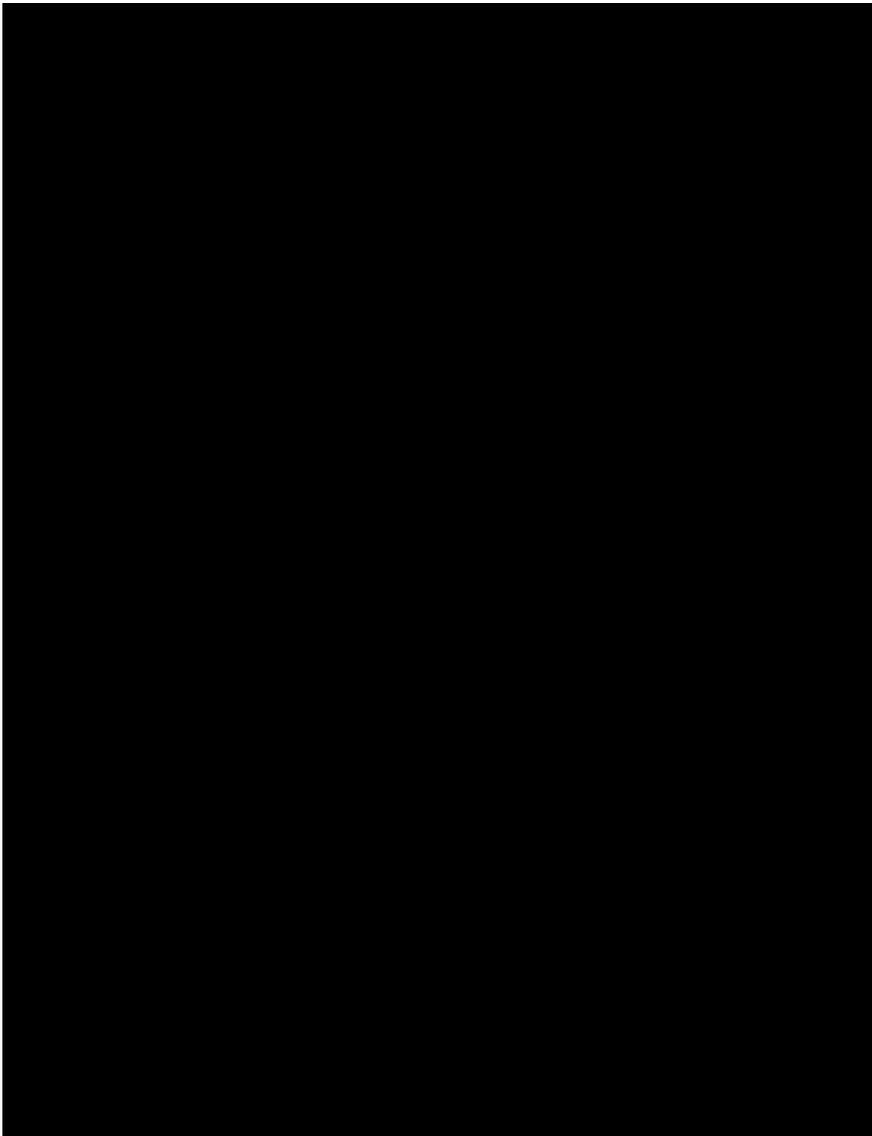
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 22 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 23 of 137

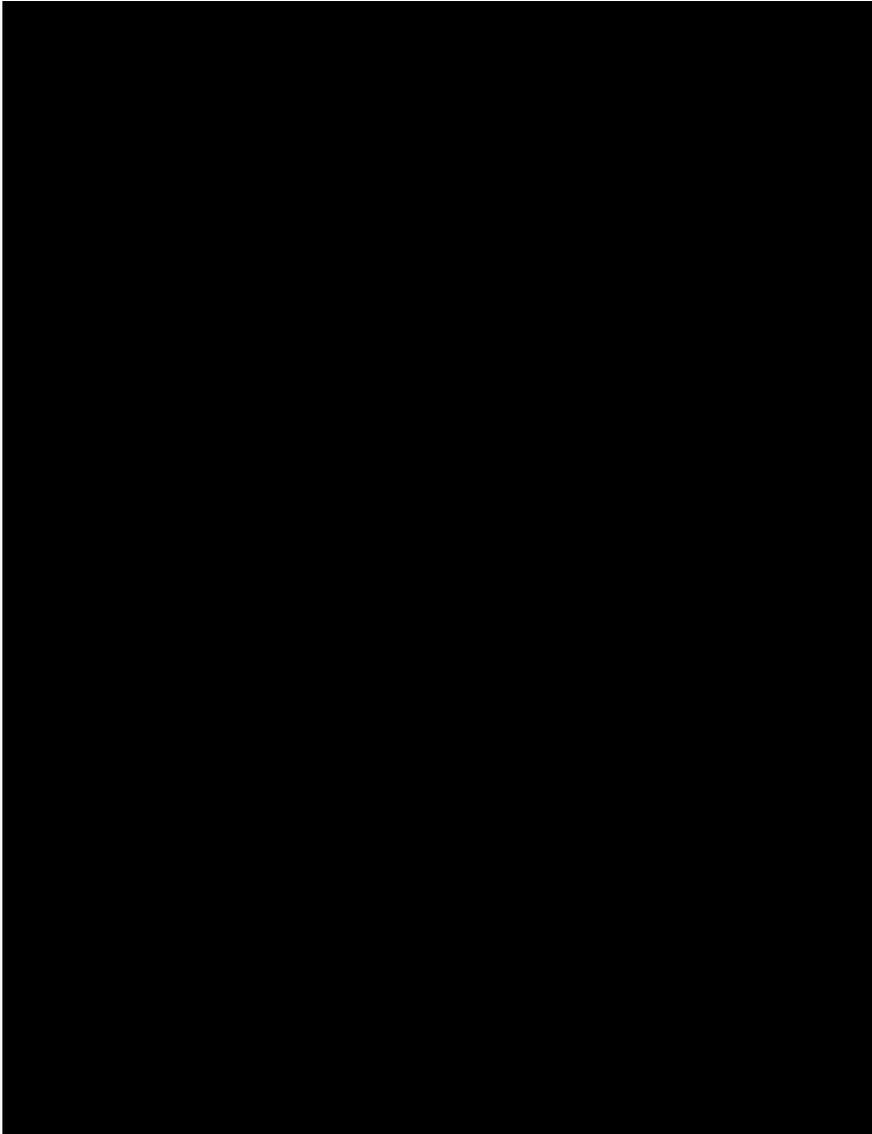
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 23 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 24 of 137

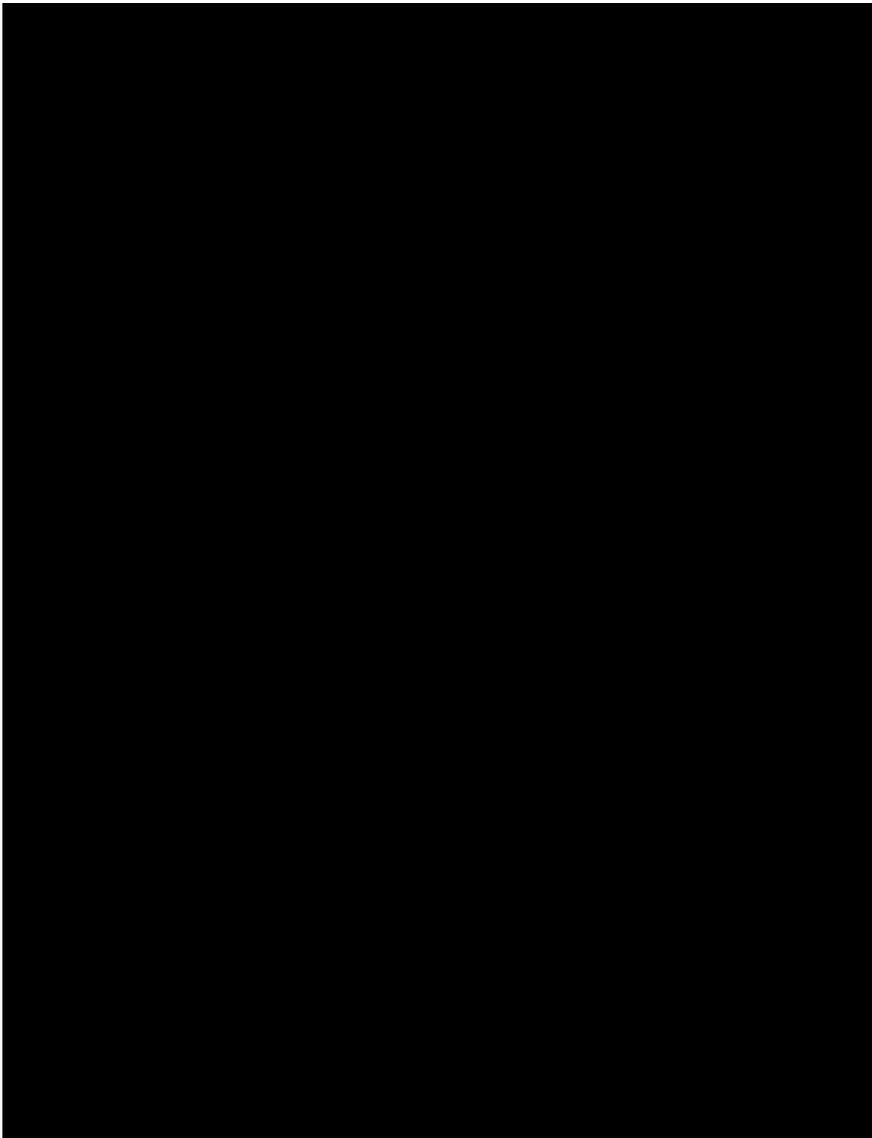
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 24 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 25 of 137

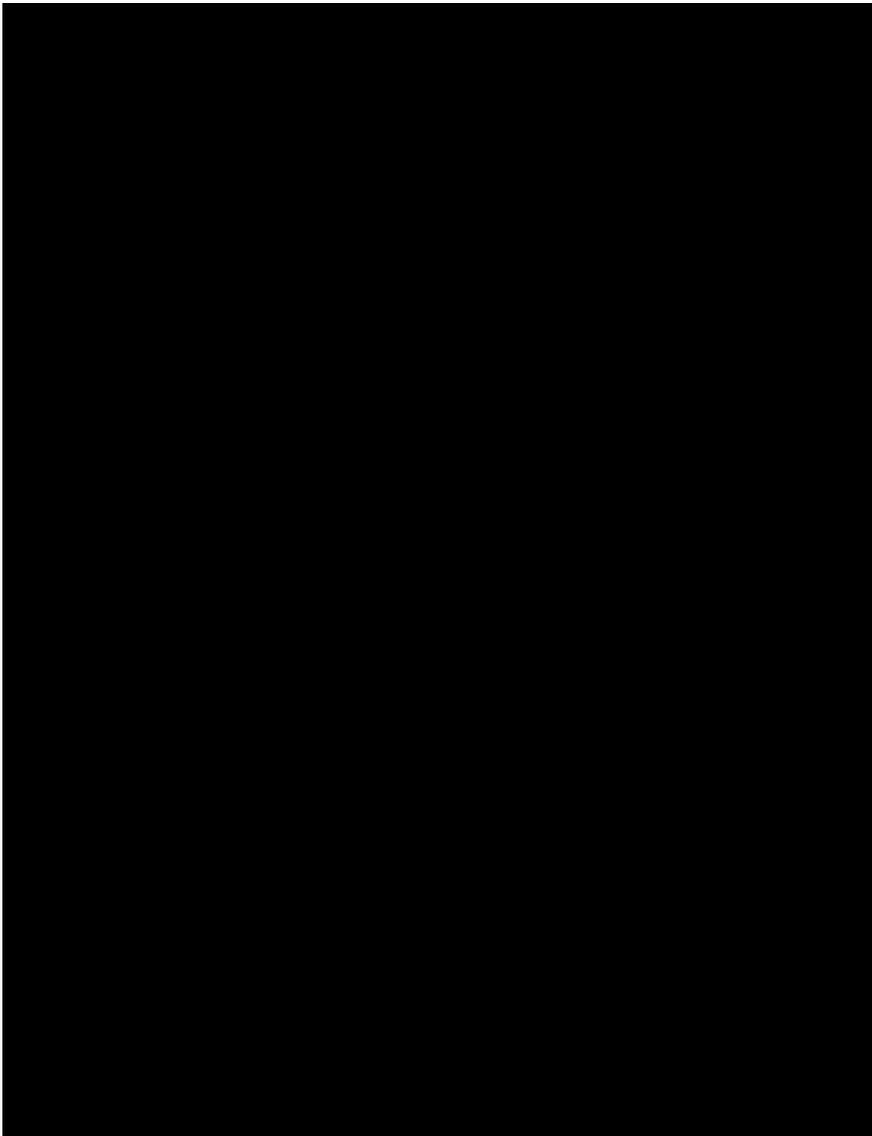
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 25 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 26 of 137

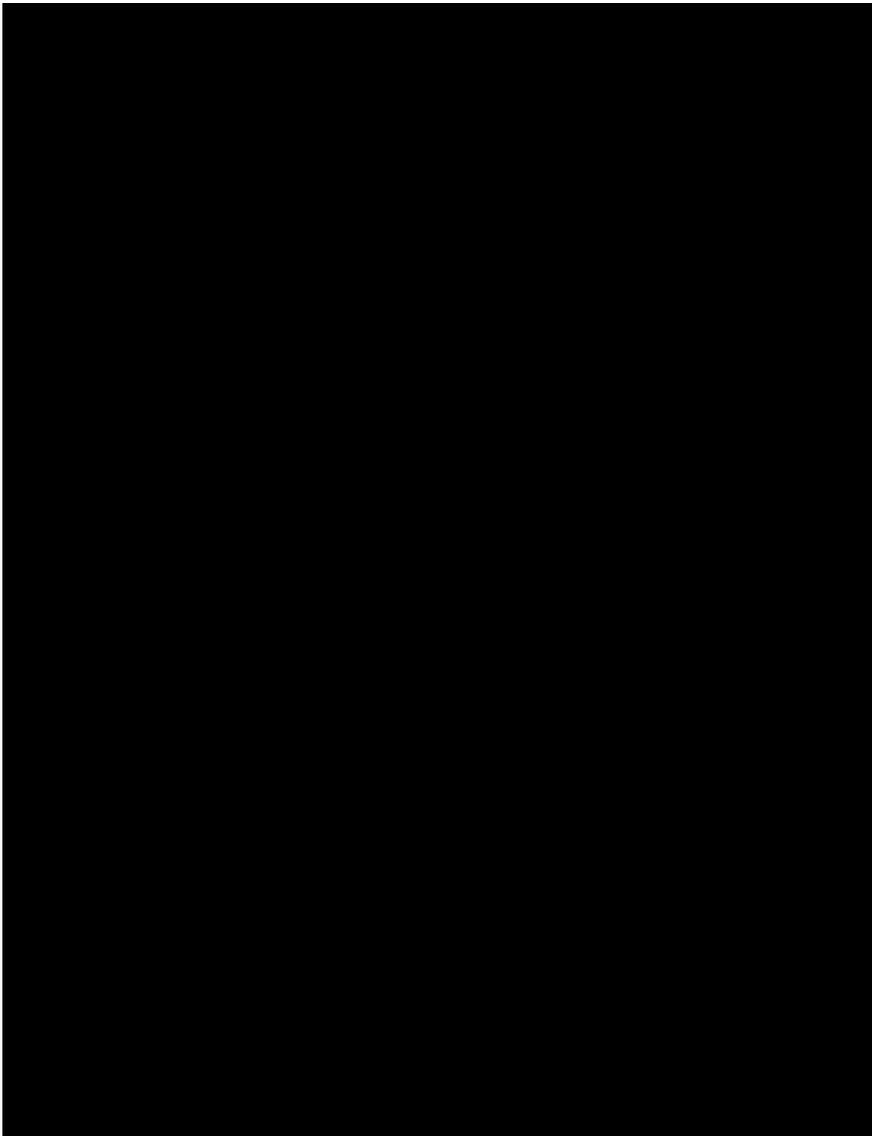
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 26 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 27 of 137

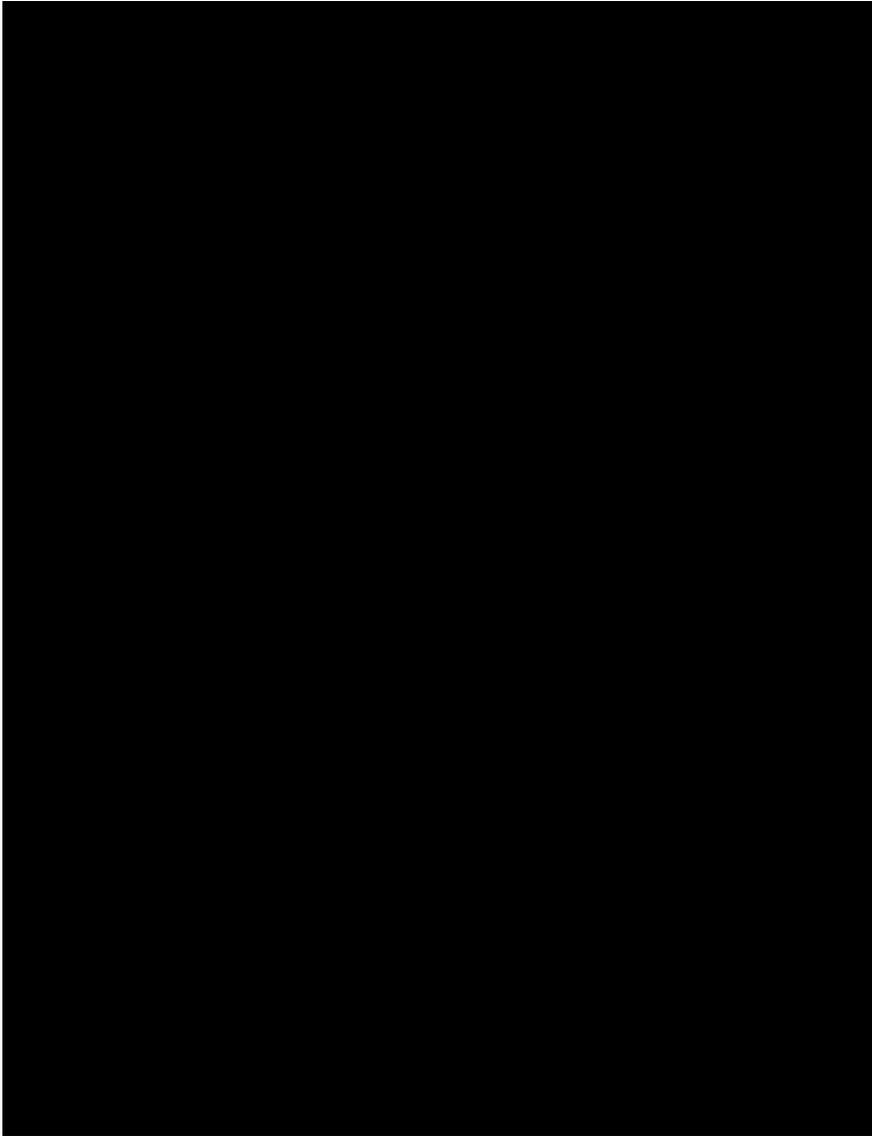
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 27 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 28 of 137

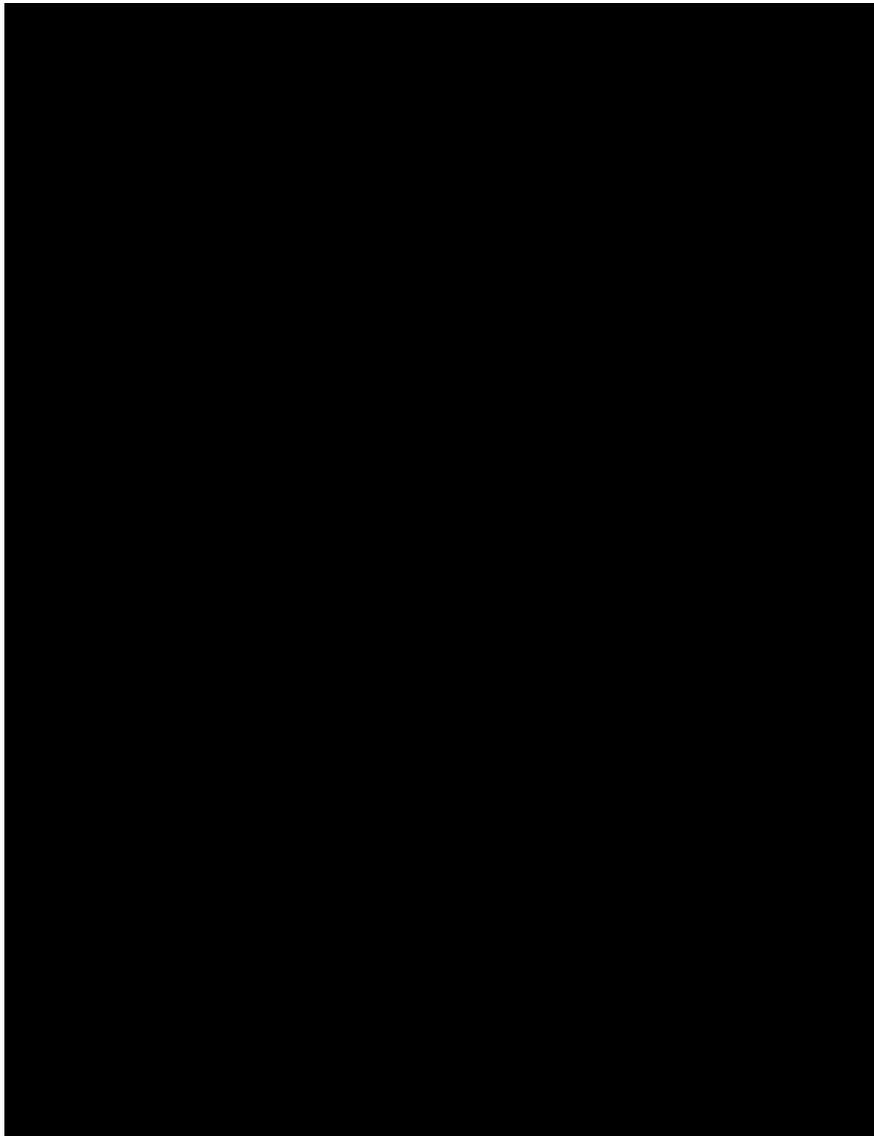
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 28 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 29 of 137

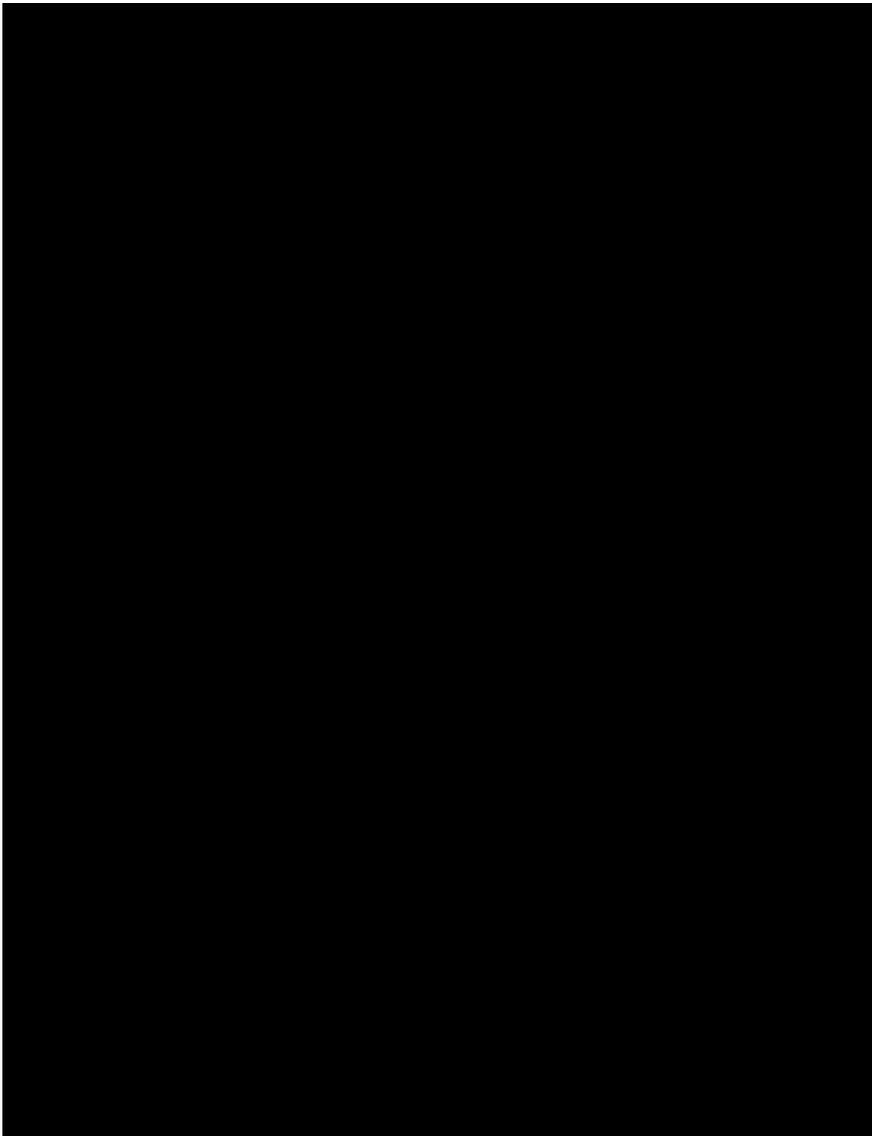
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 29 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 30 of 137

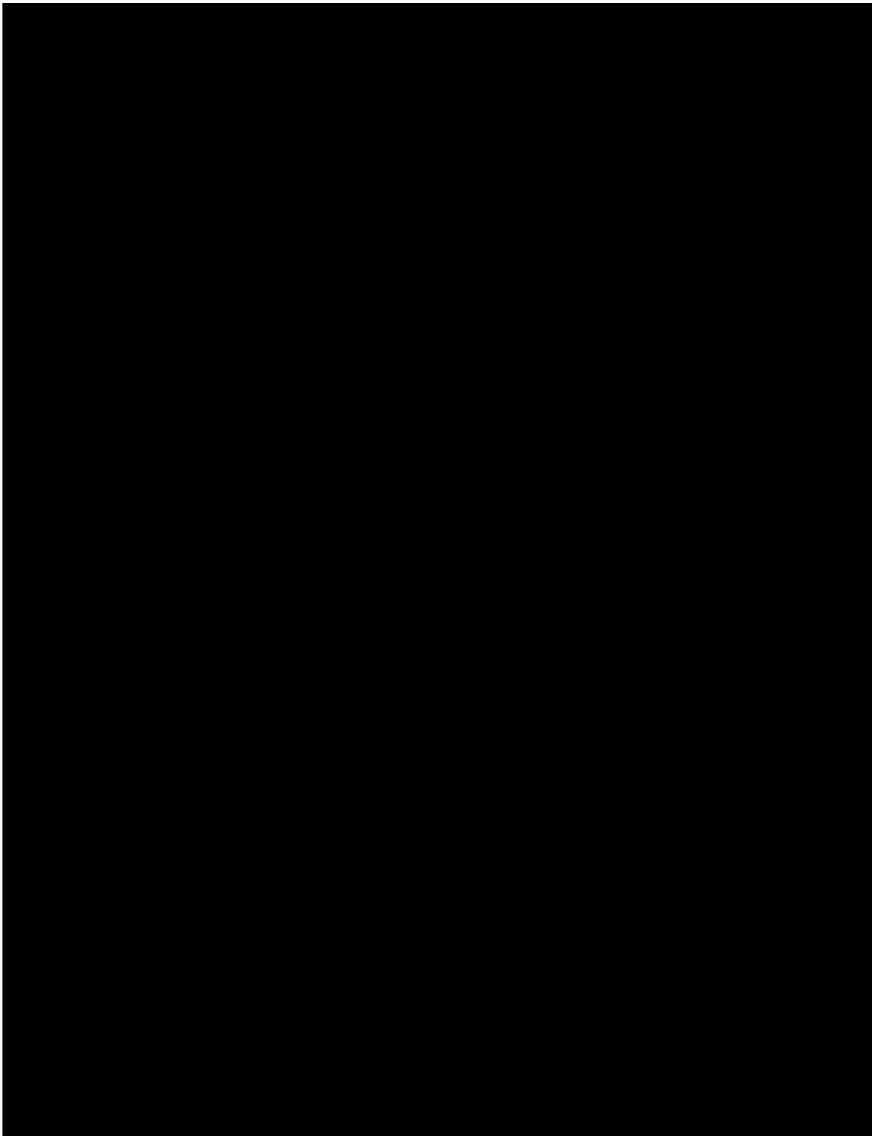
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 30 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 31 of 137

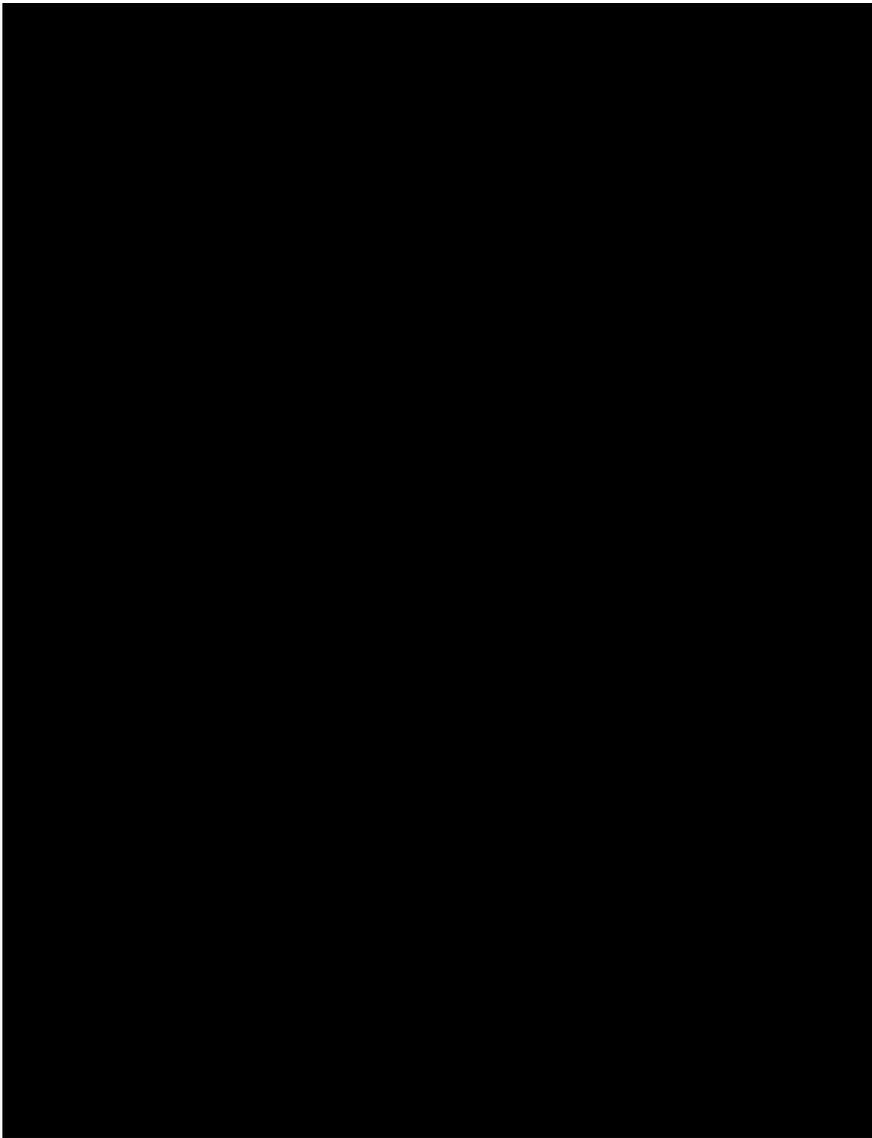
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 31 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 32 of 137

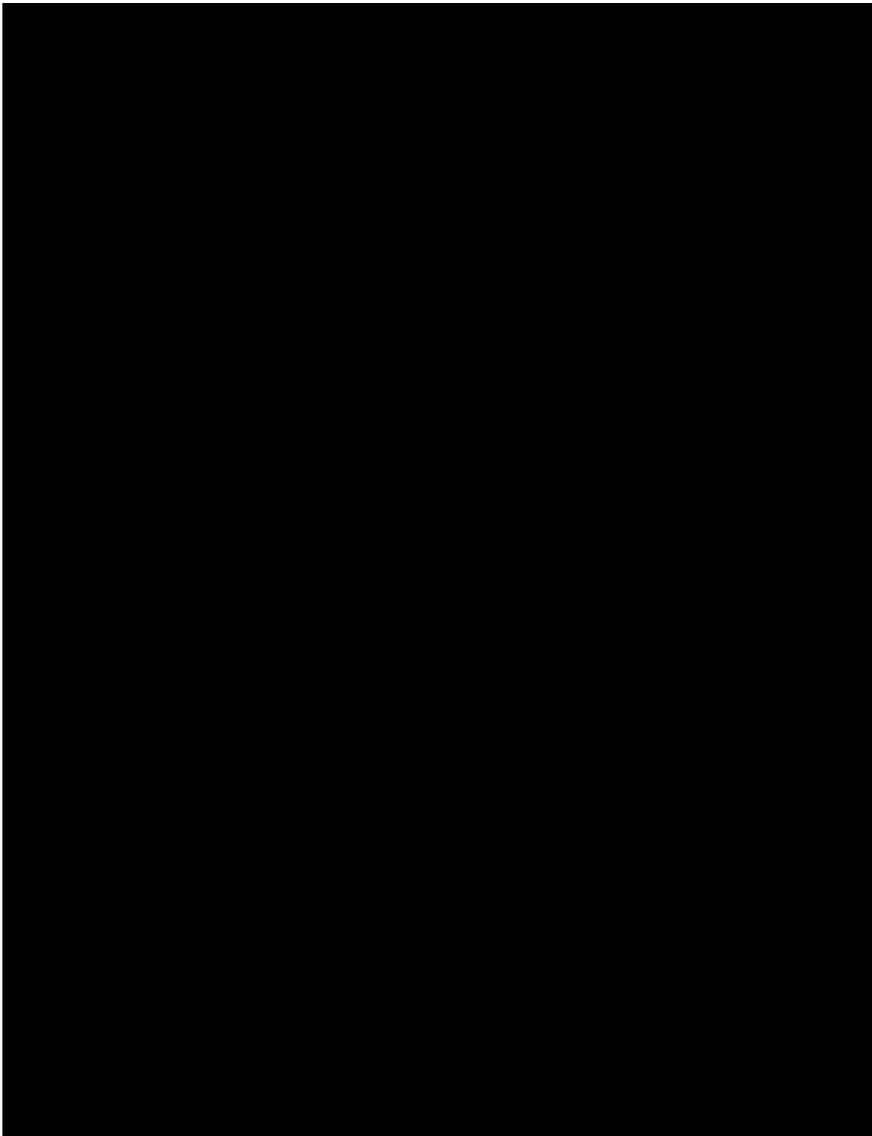
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 32 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 33 of 137

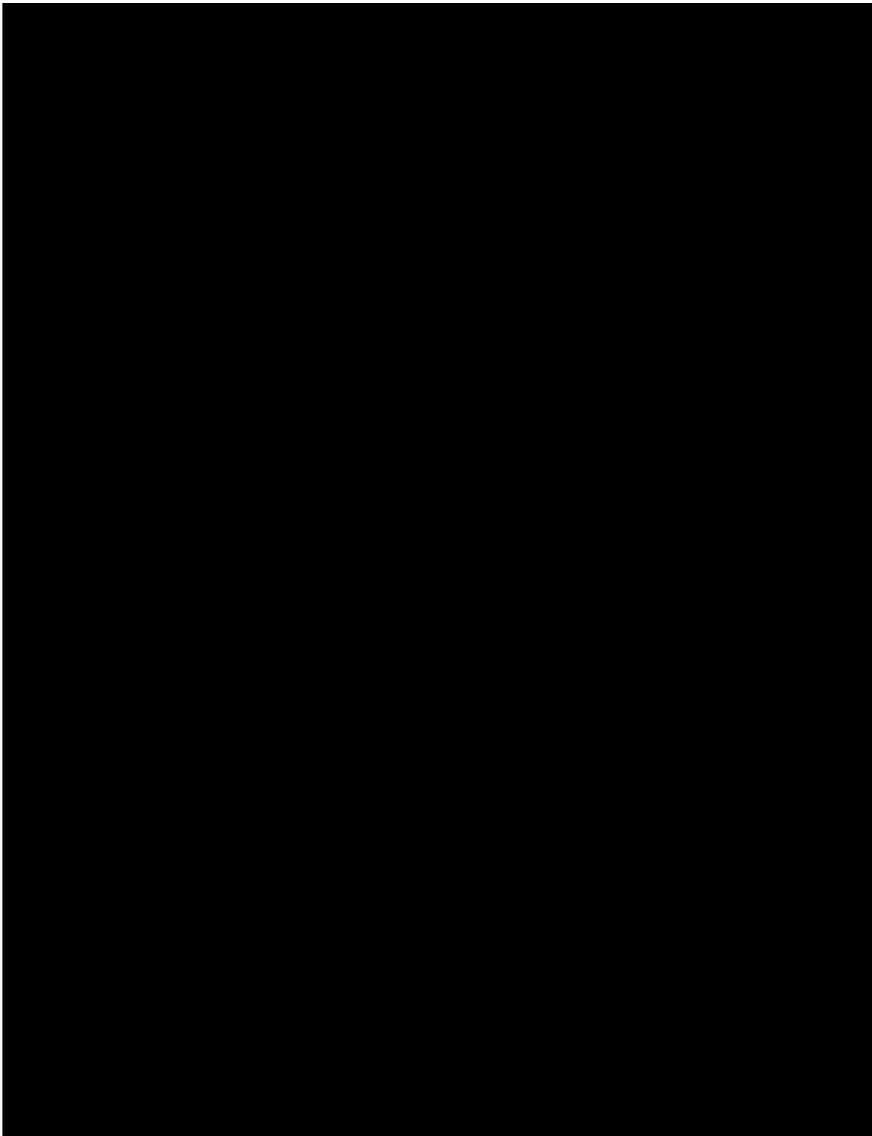
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 33 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 34 of 137

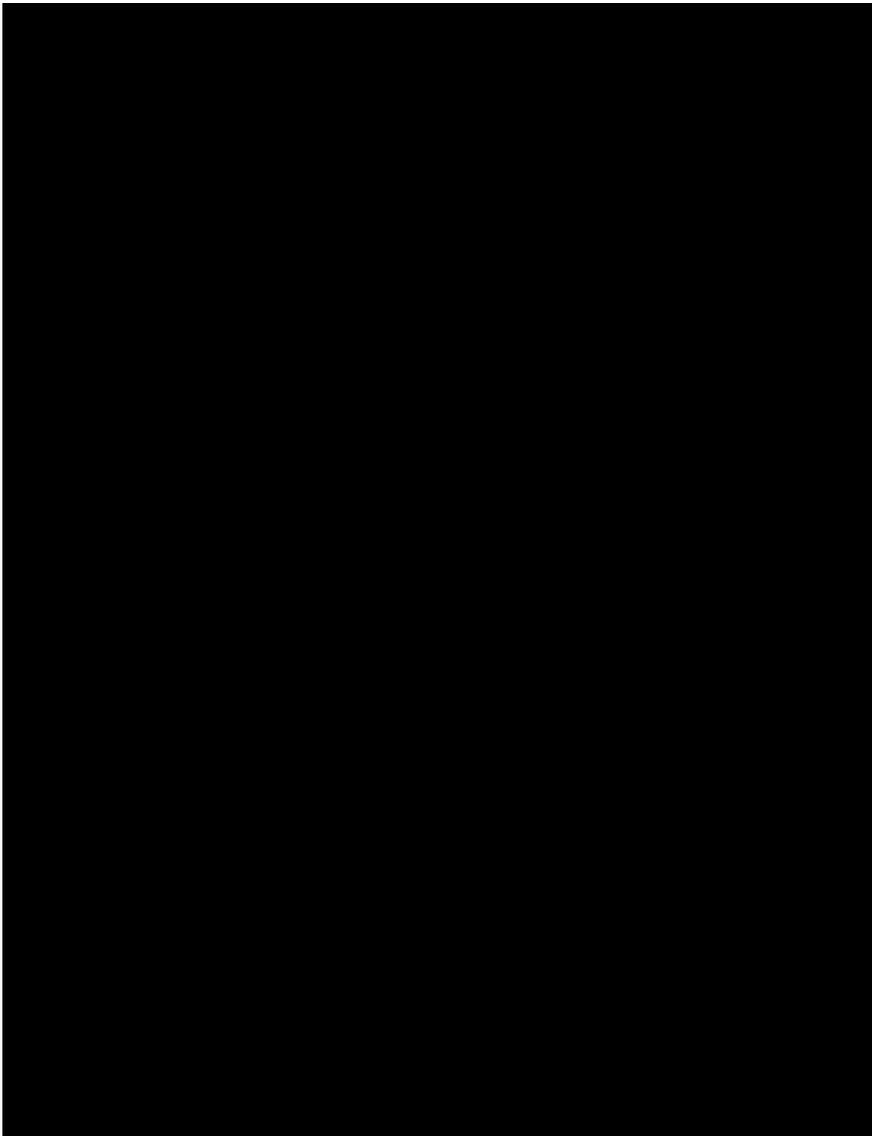
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 34 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 35 of 137

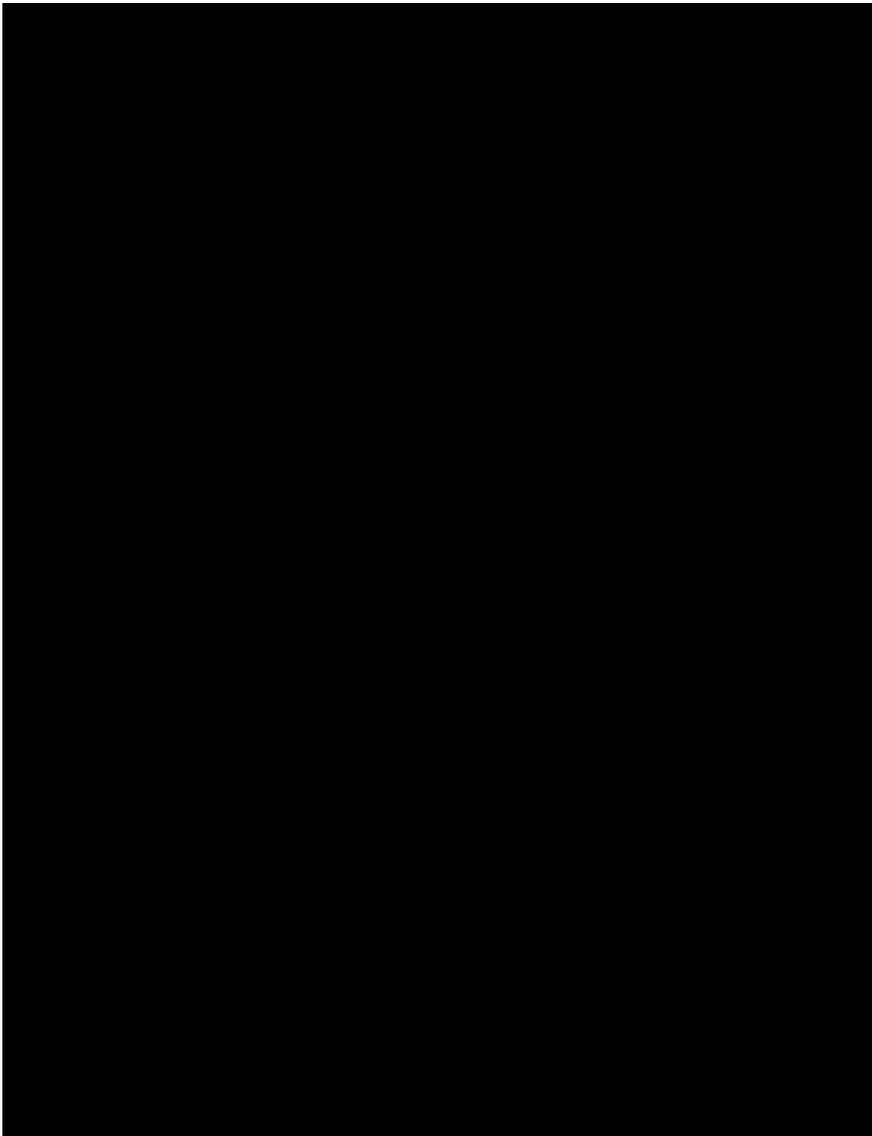
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 35 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 36 of 137

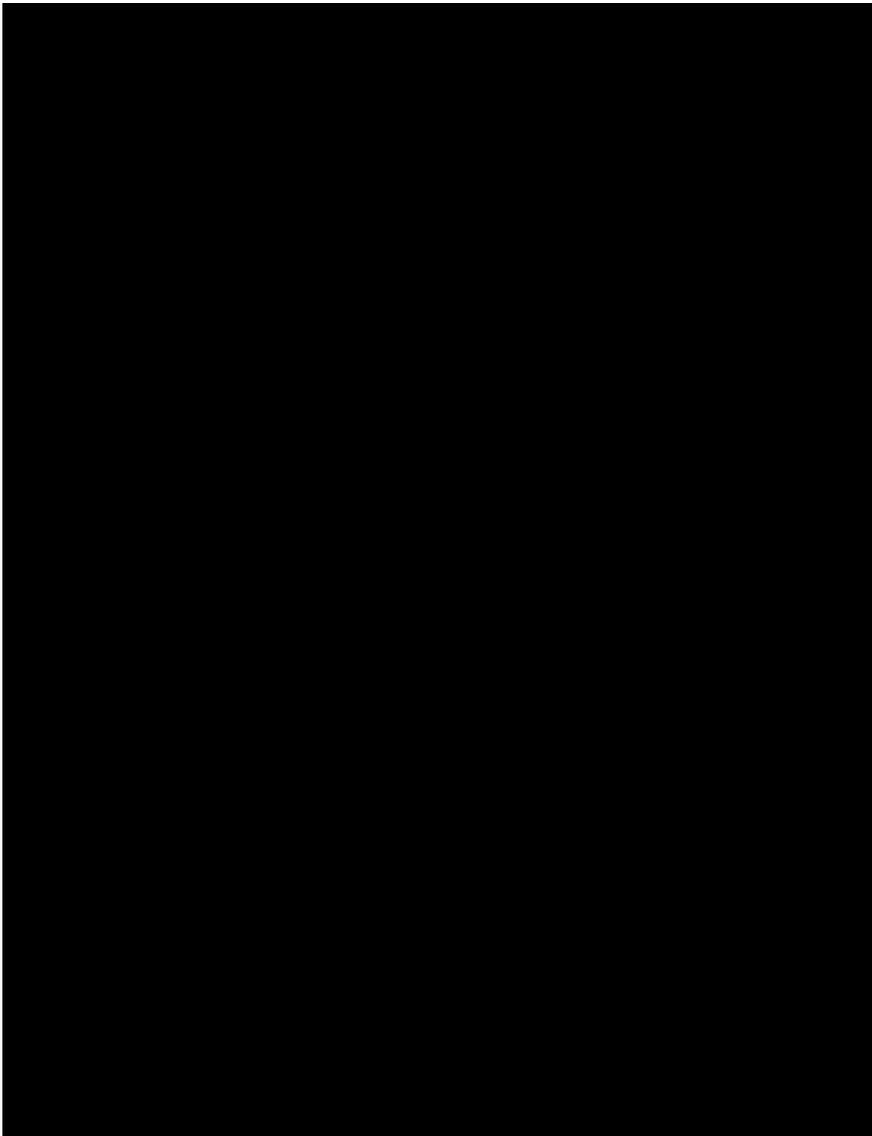
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 36 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 37 of 137

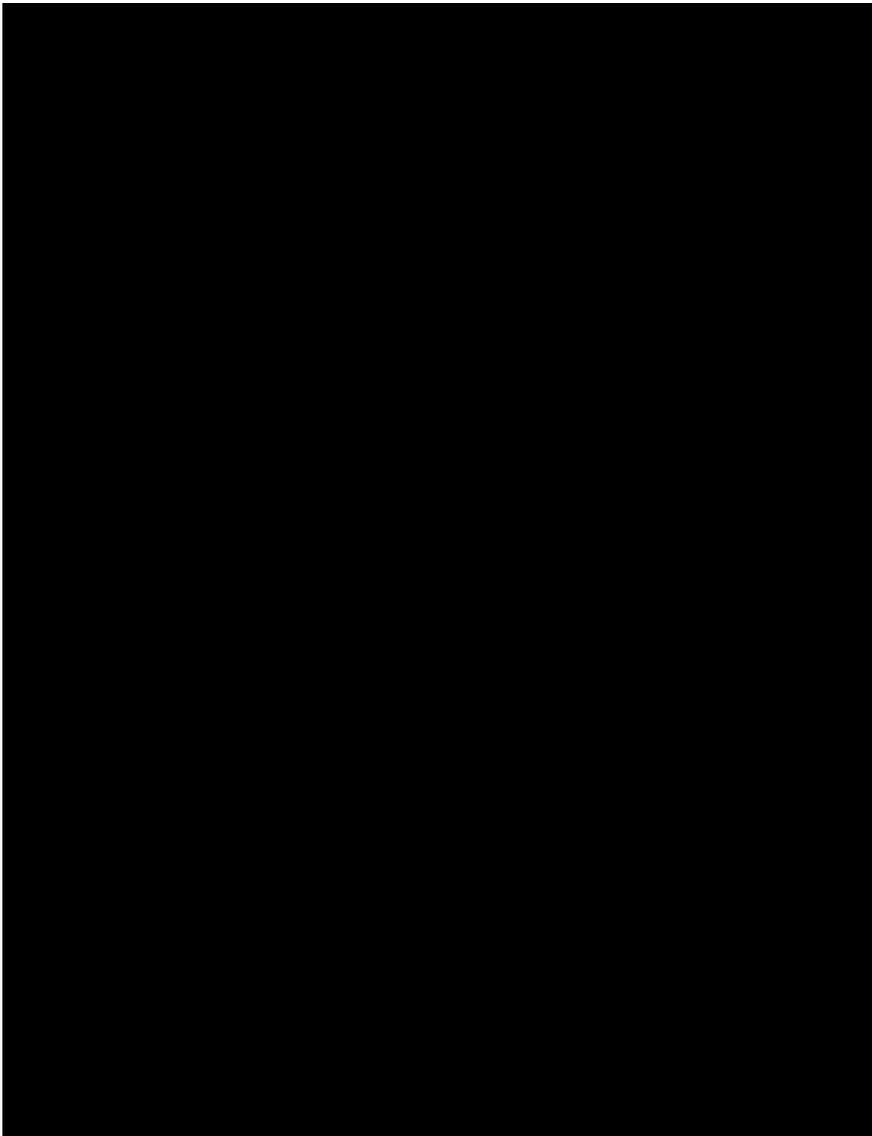
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 37 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 38 of 137

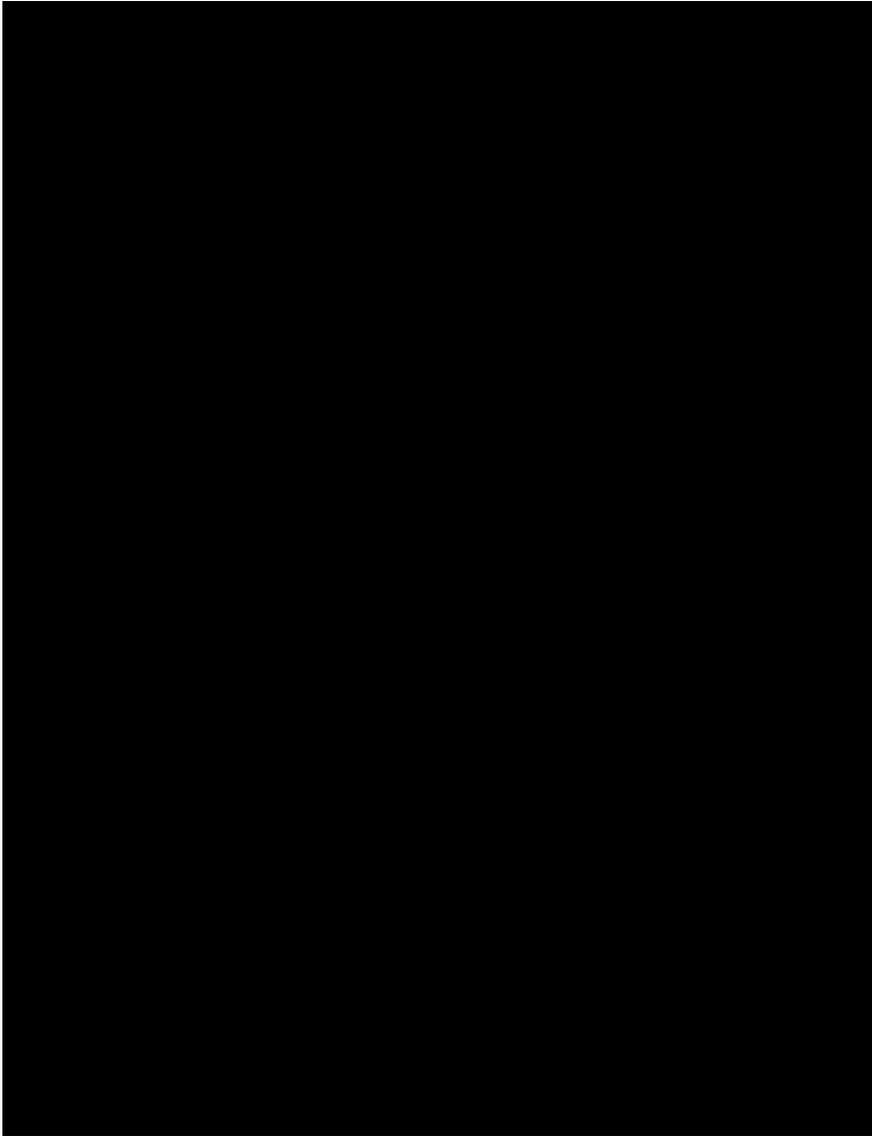
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 38 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 39 of 137

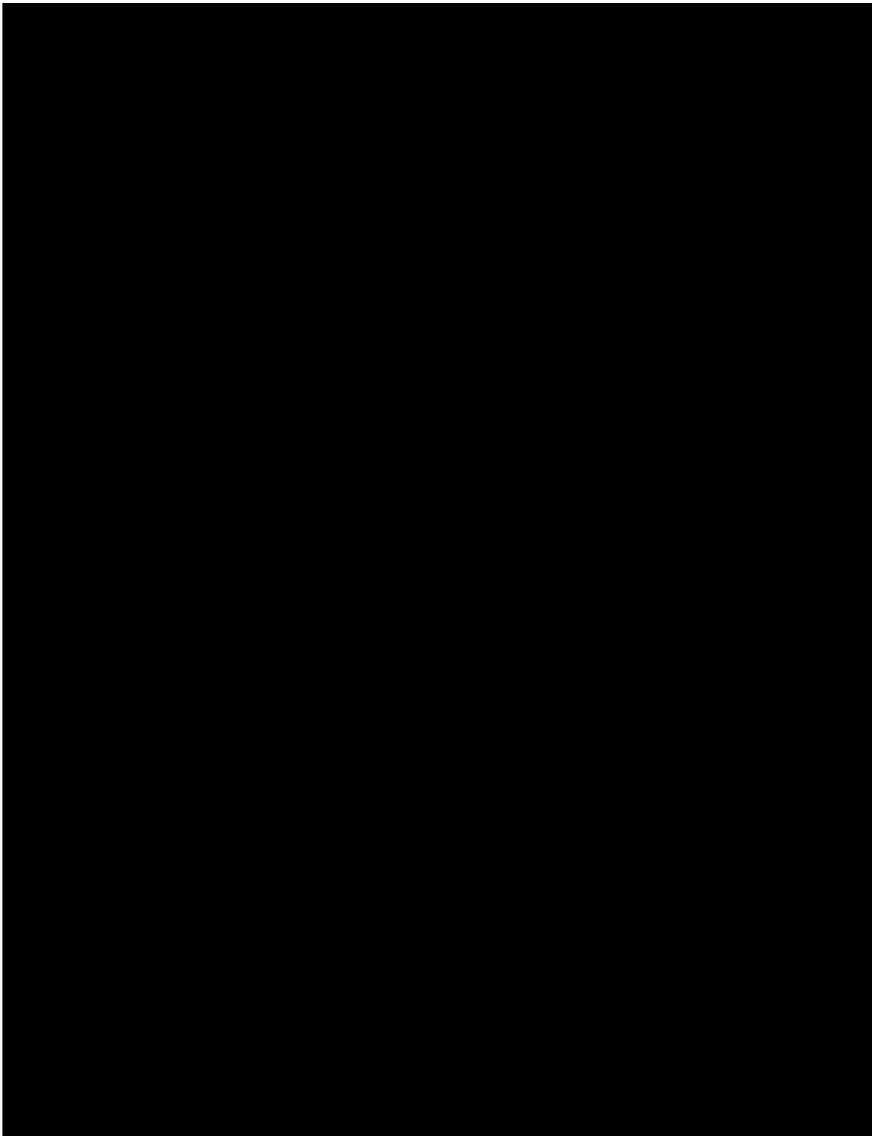
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 39 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 40 of 137

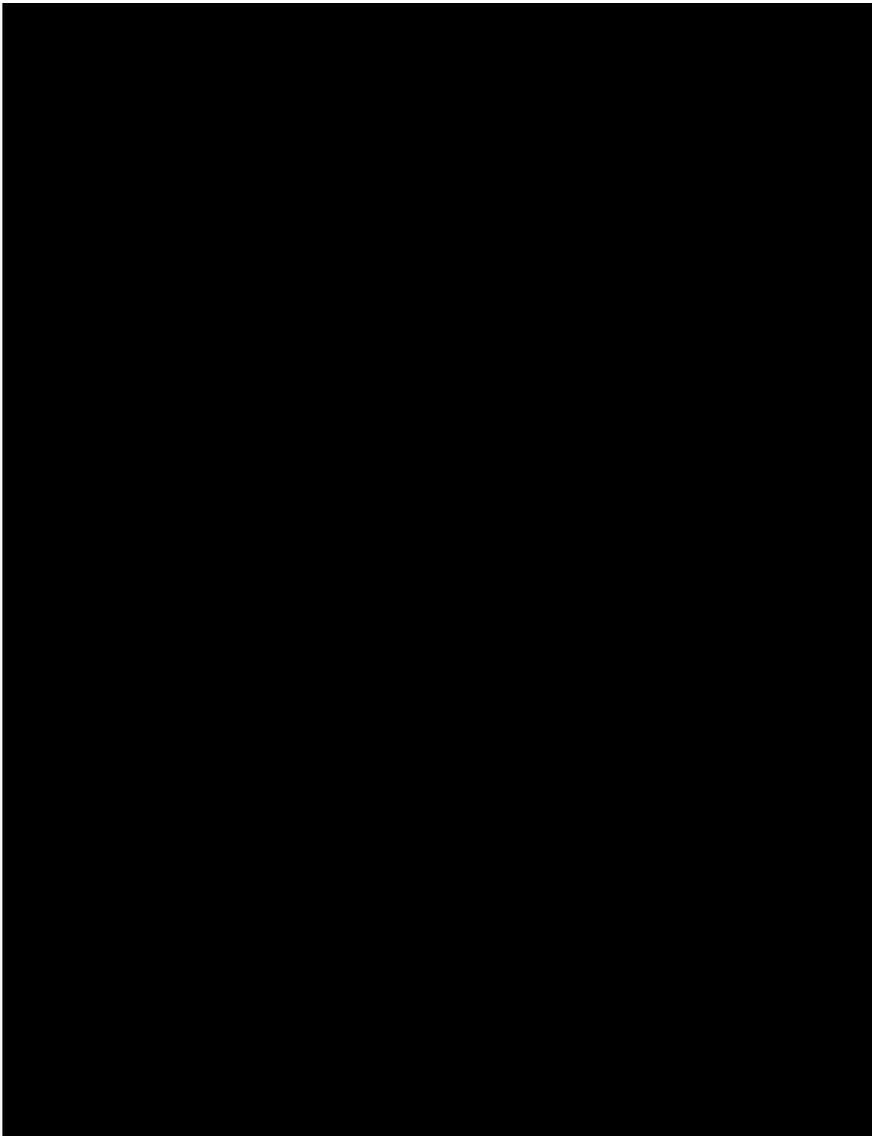
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 40 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 41 of 137

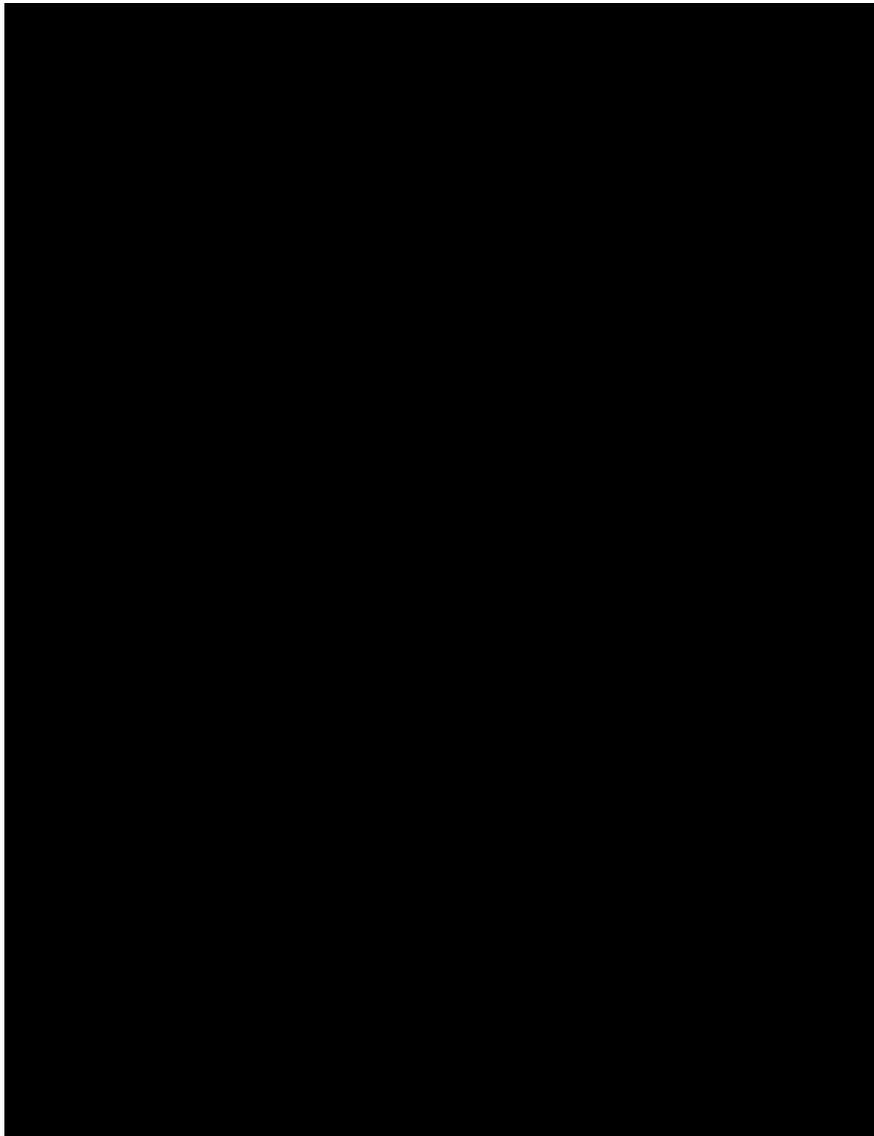
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 41 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 42 of 137

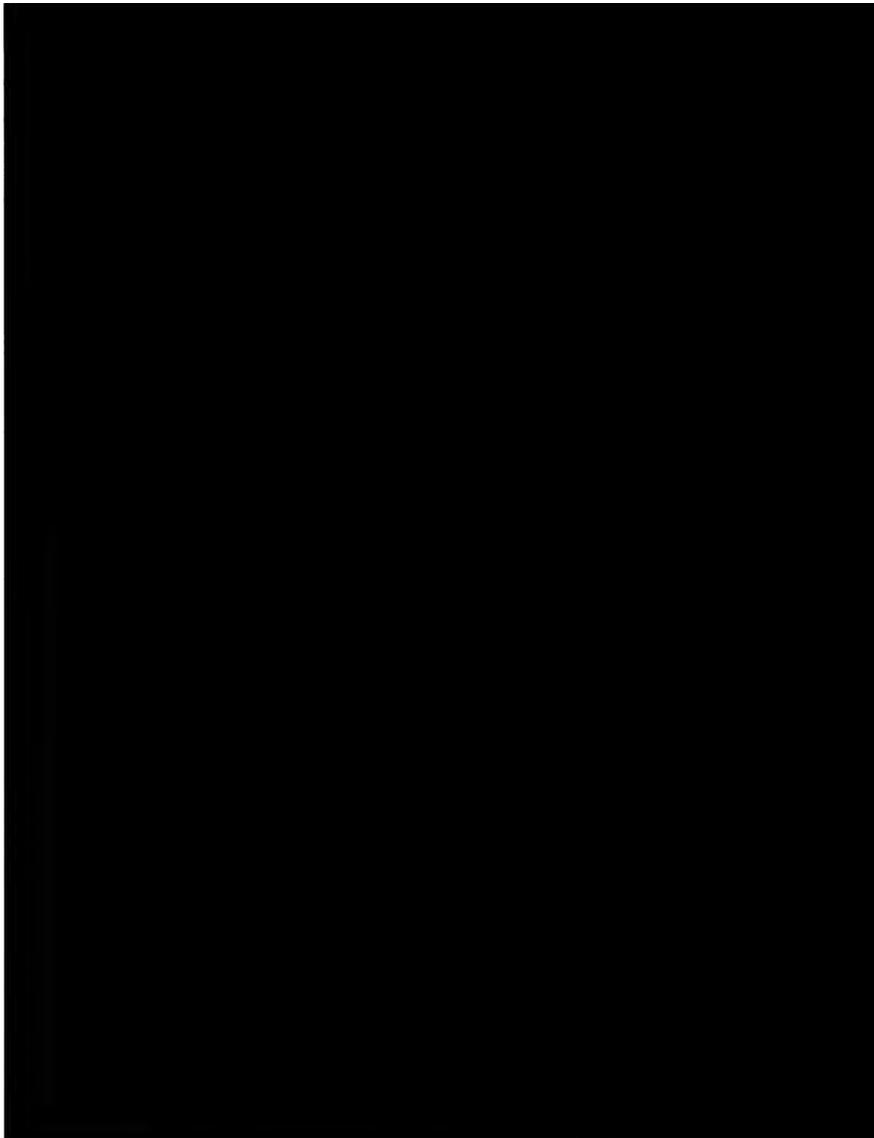
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 42 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 43 of 137

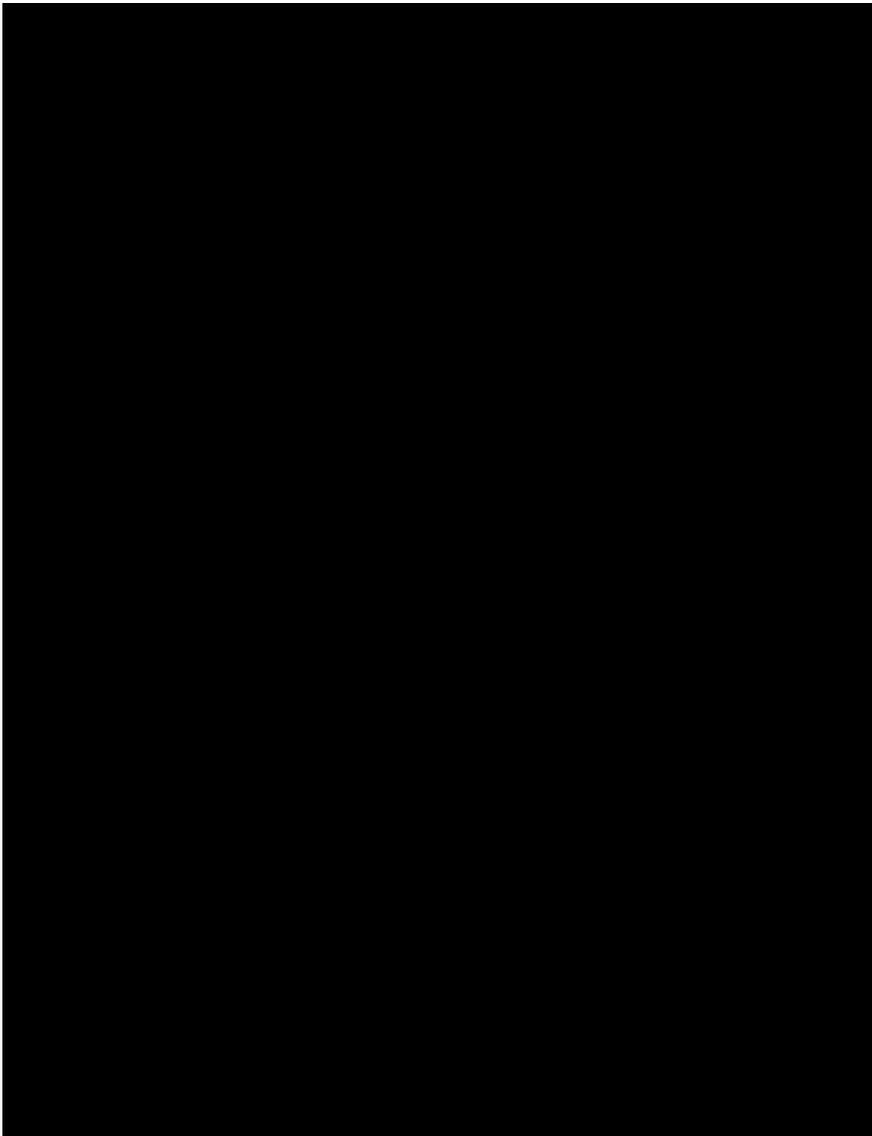
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 43 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 44 of 137

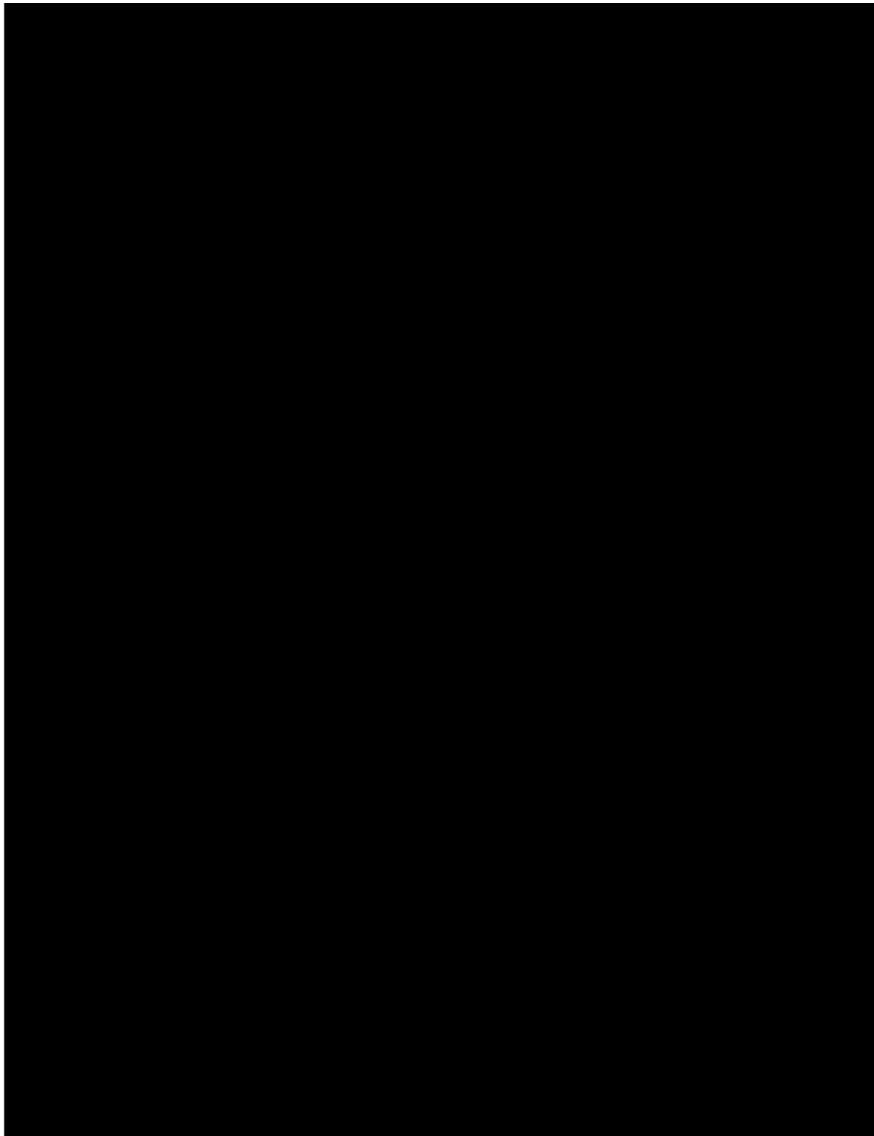
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 44 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 45 of 137

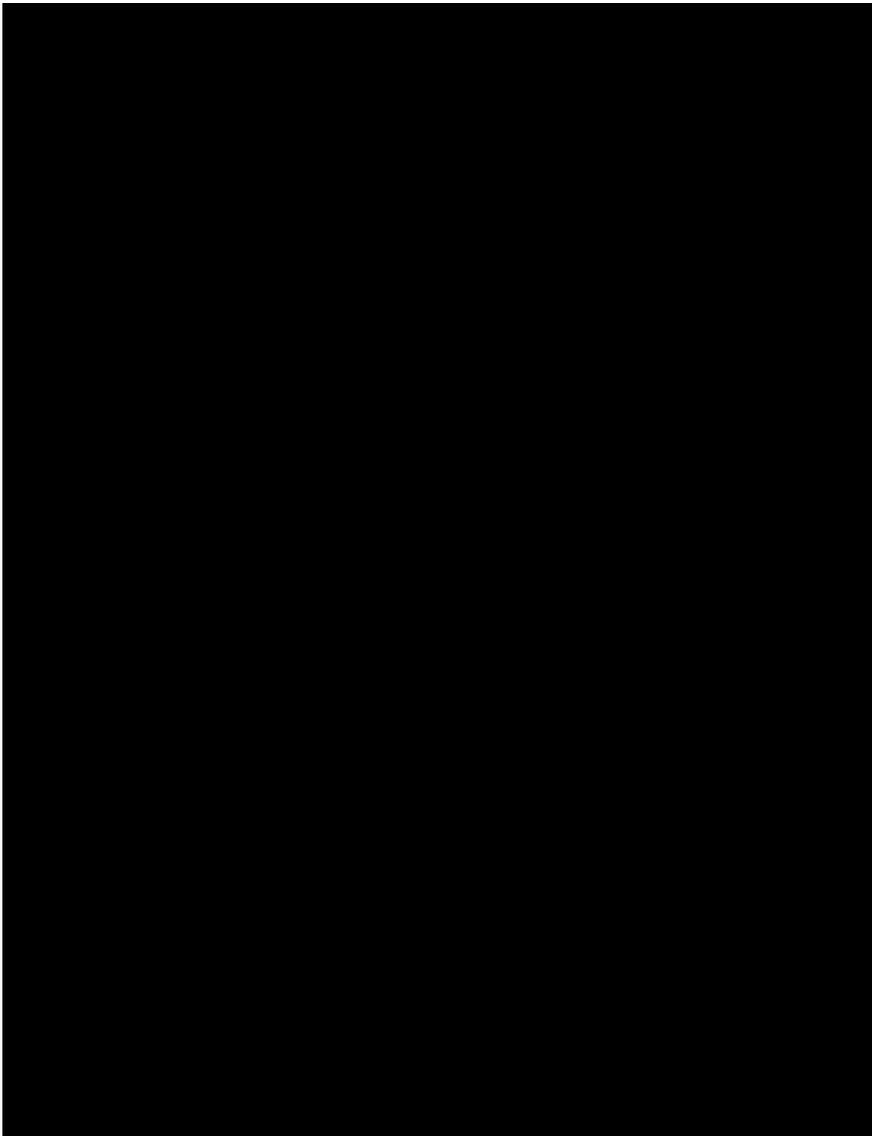
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 45 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 46 of 137

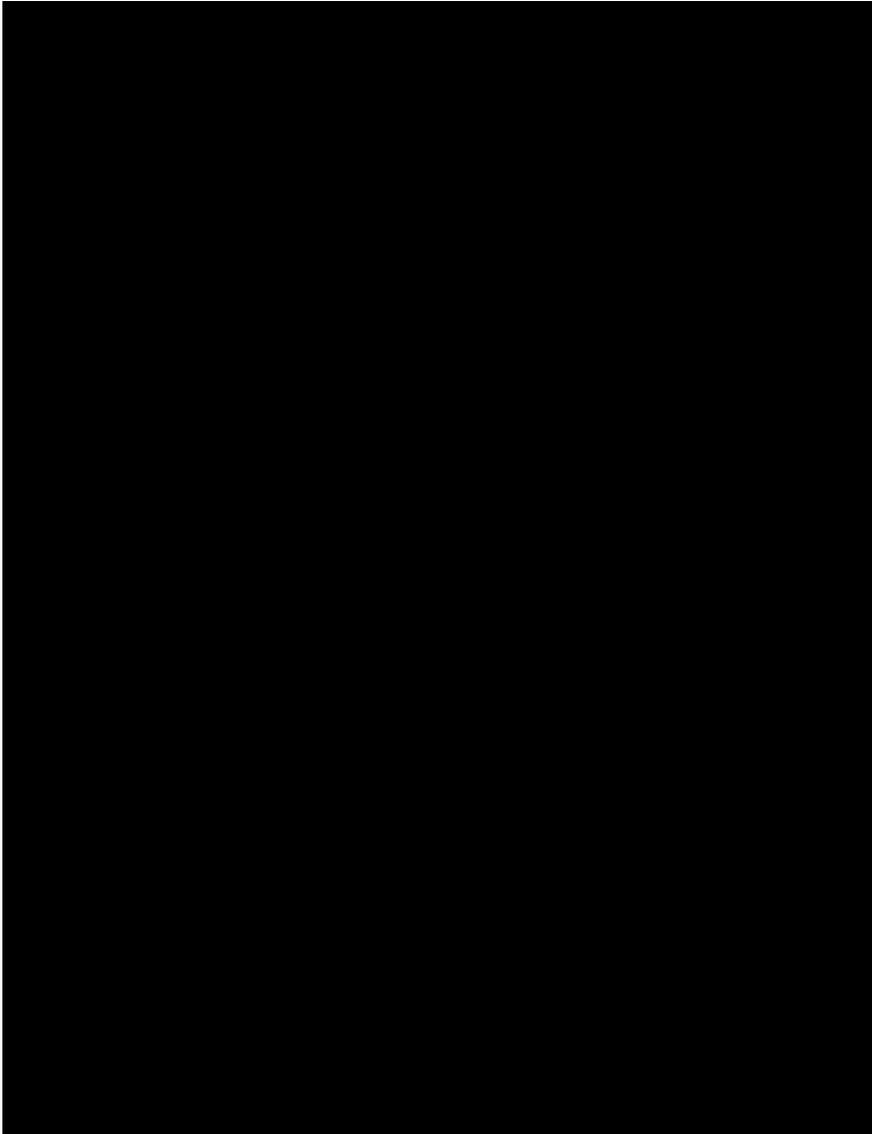
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 46 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 47 of 137

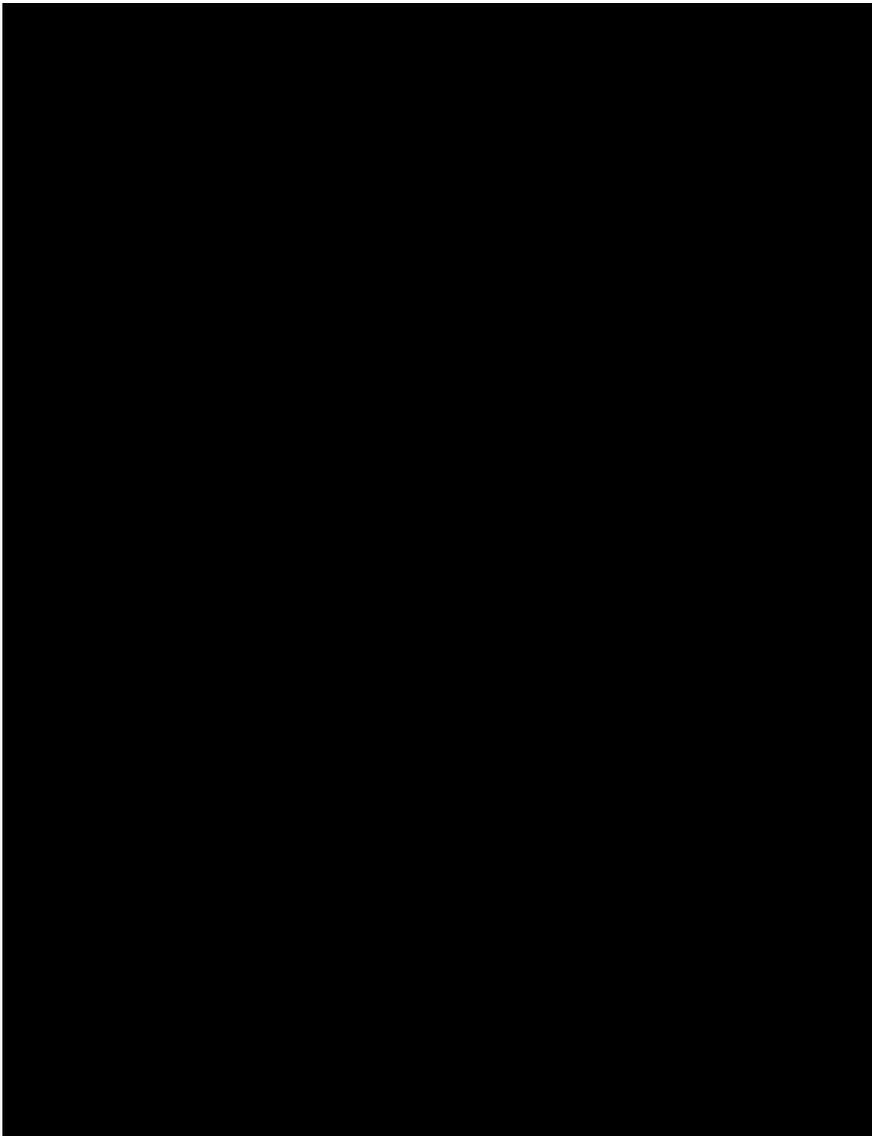
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 47 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 48 of 137

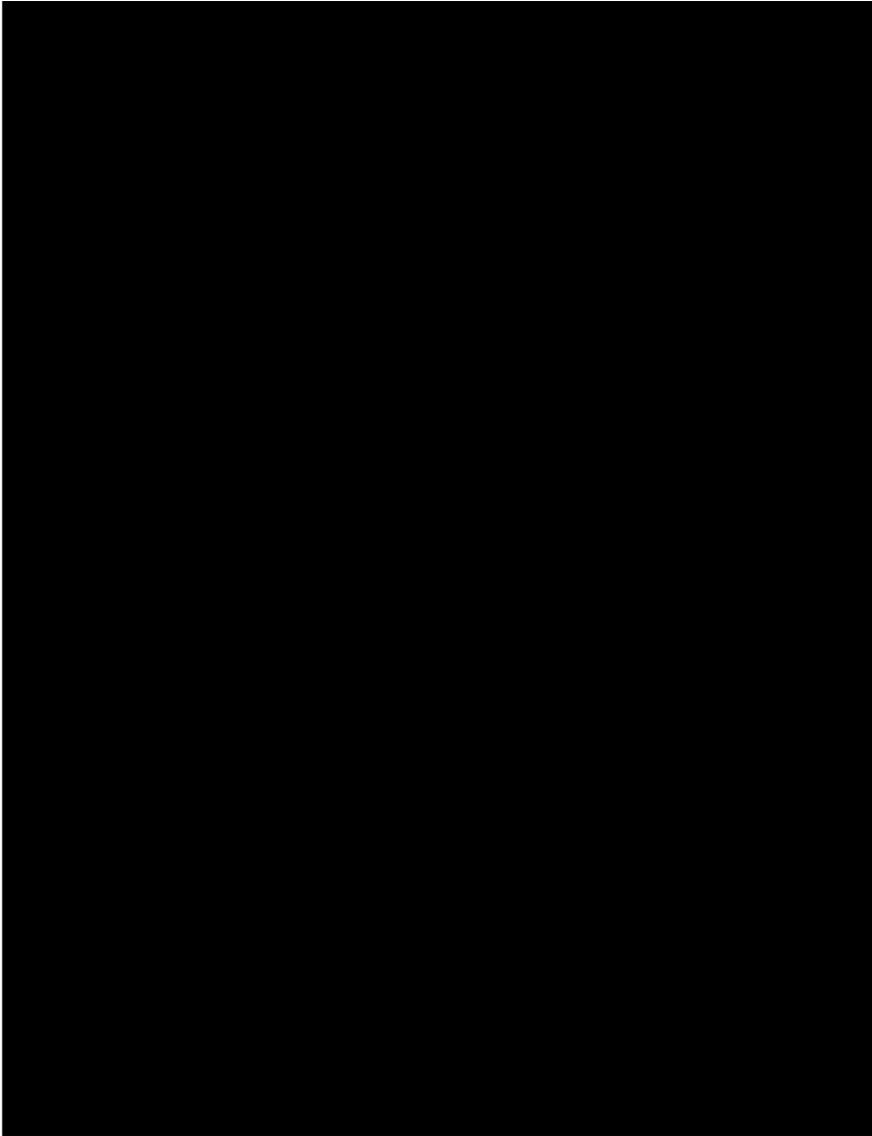
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 48 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 49 of 137

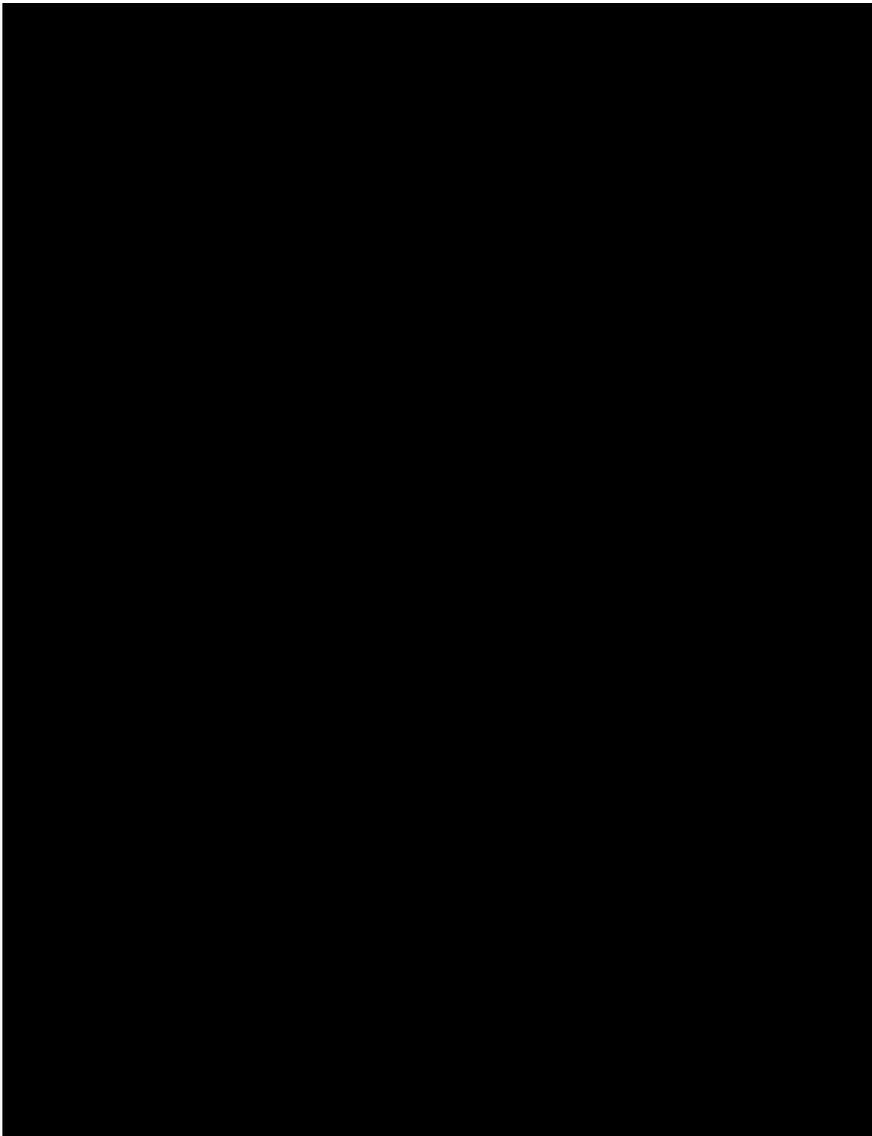
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 49 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 50 of 137

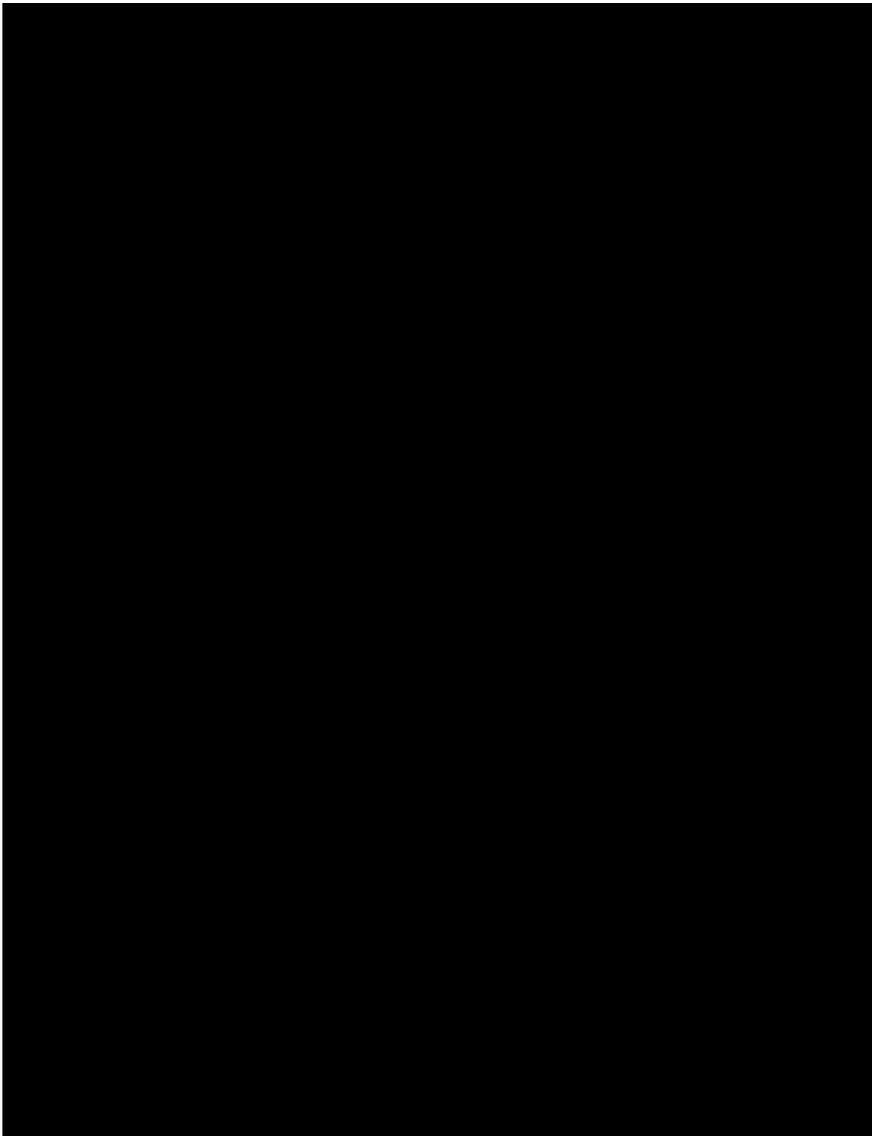
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 50 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 51 of 137

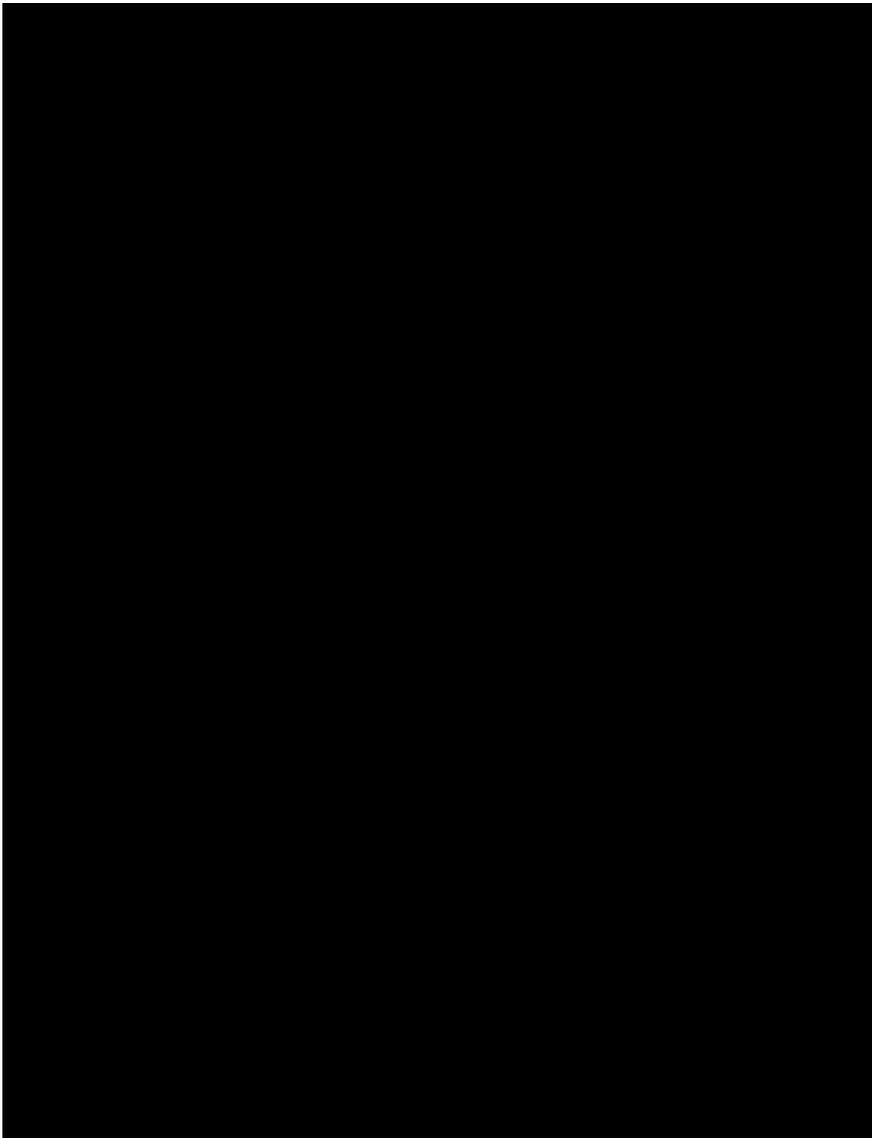
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 51 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 52 of 137

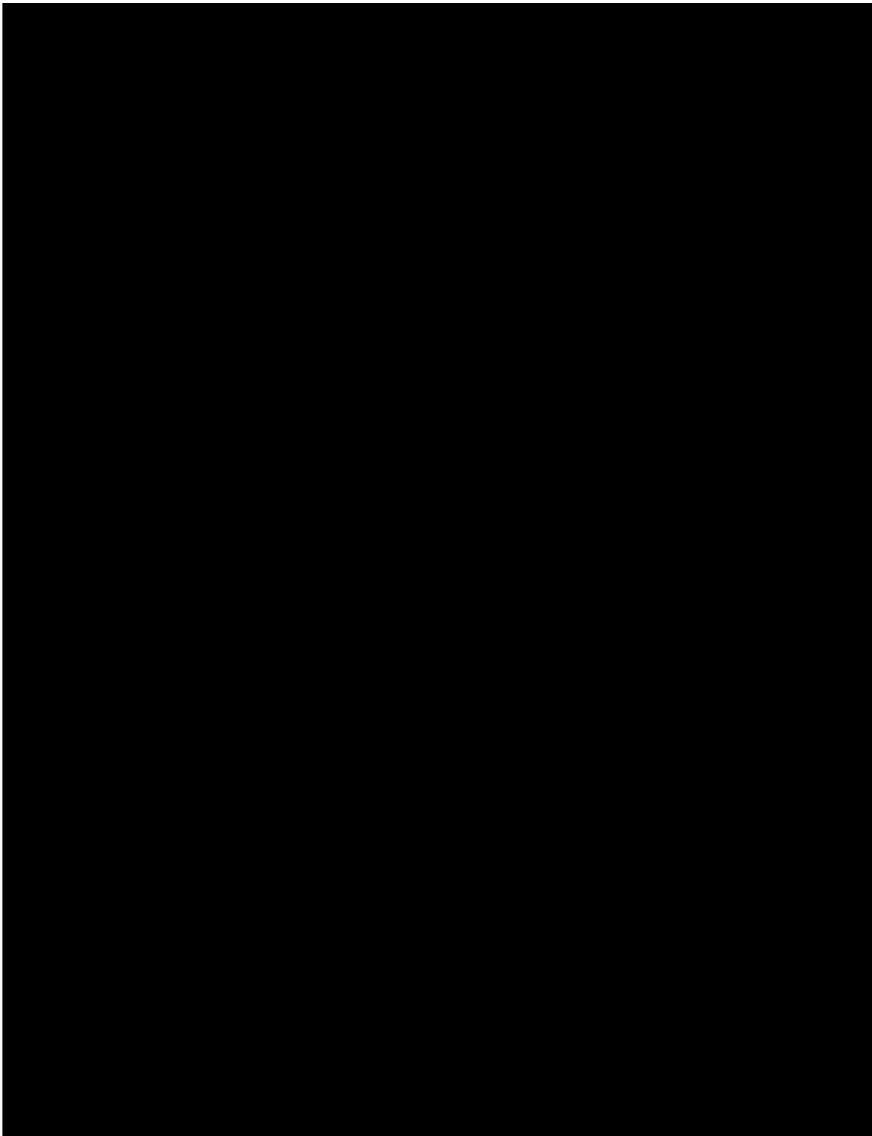
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 52 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 53 of 137

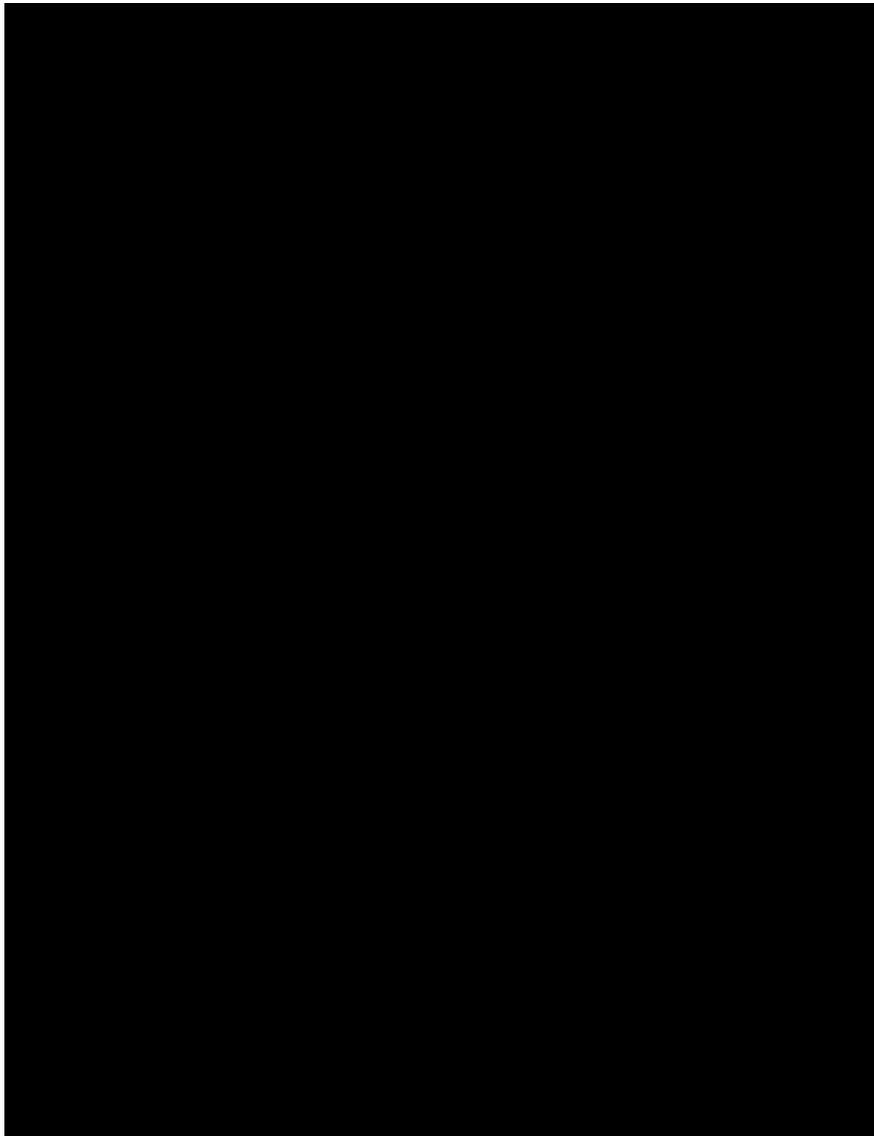
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 53 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 54 of 137

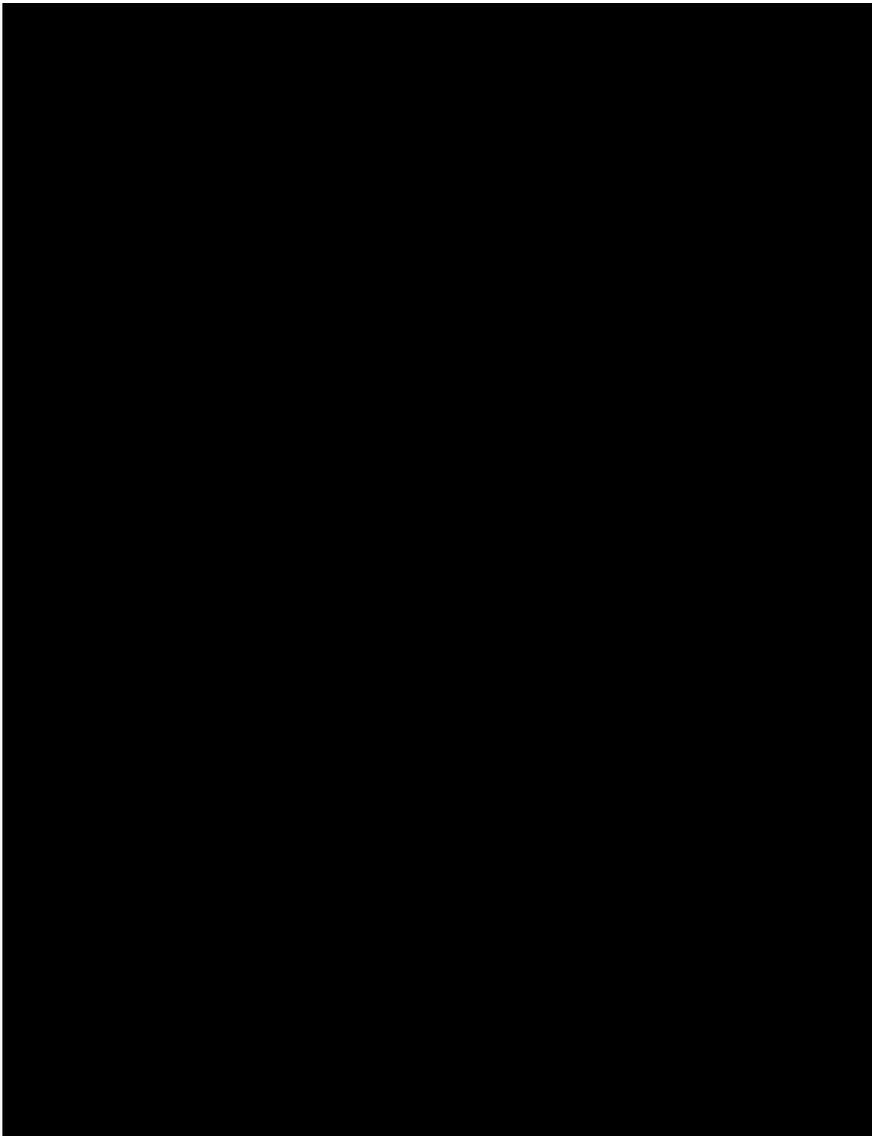
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 54 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 55 of 137

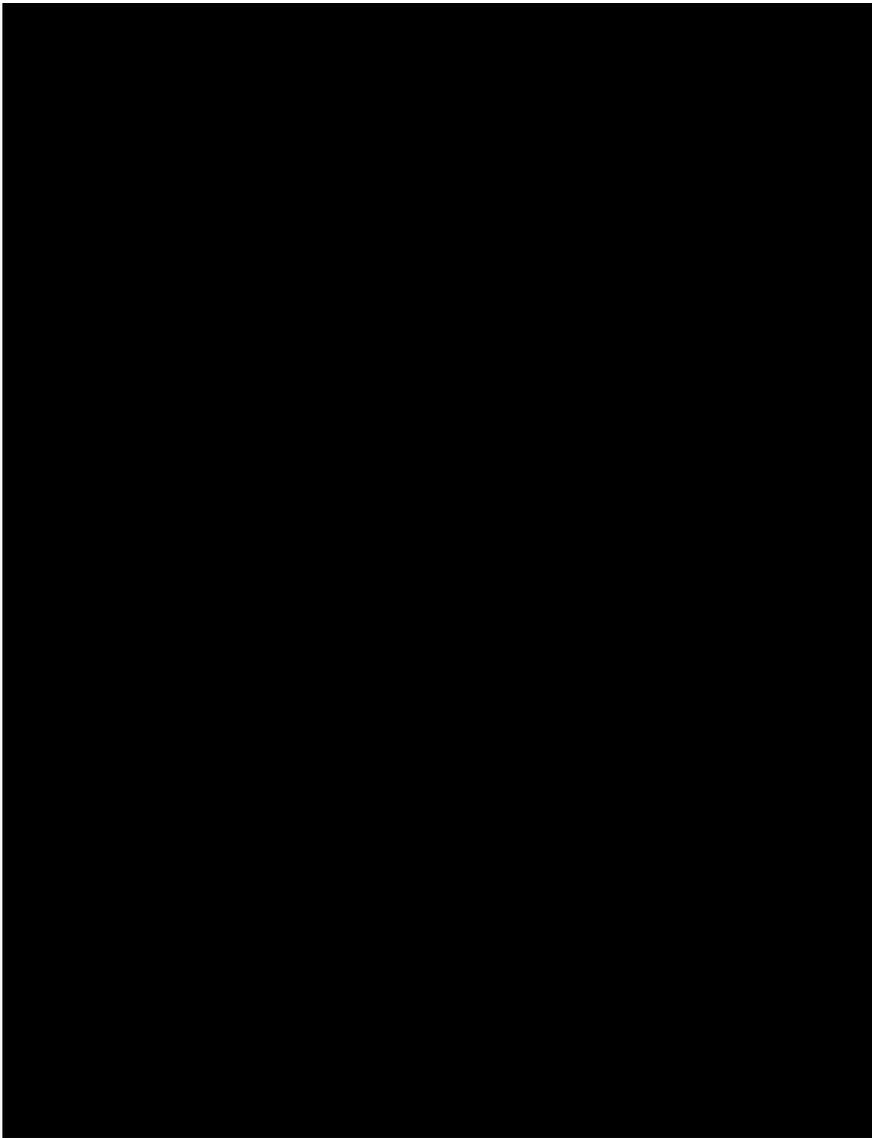
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 55 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 56 of 137

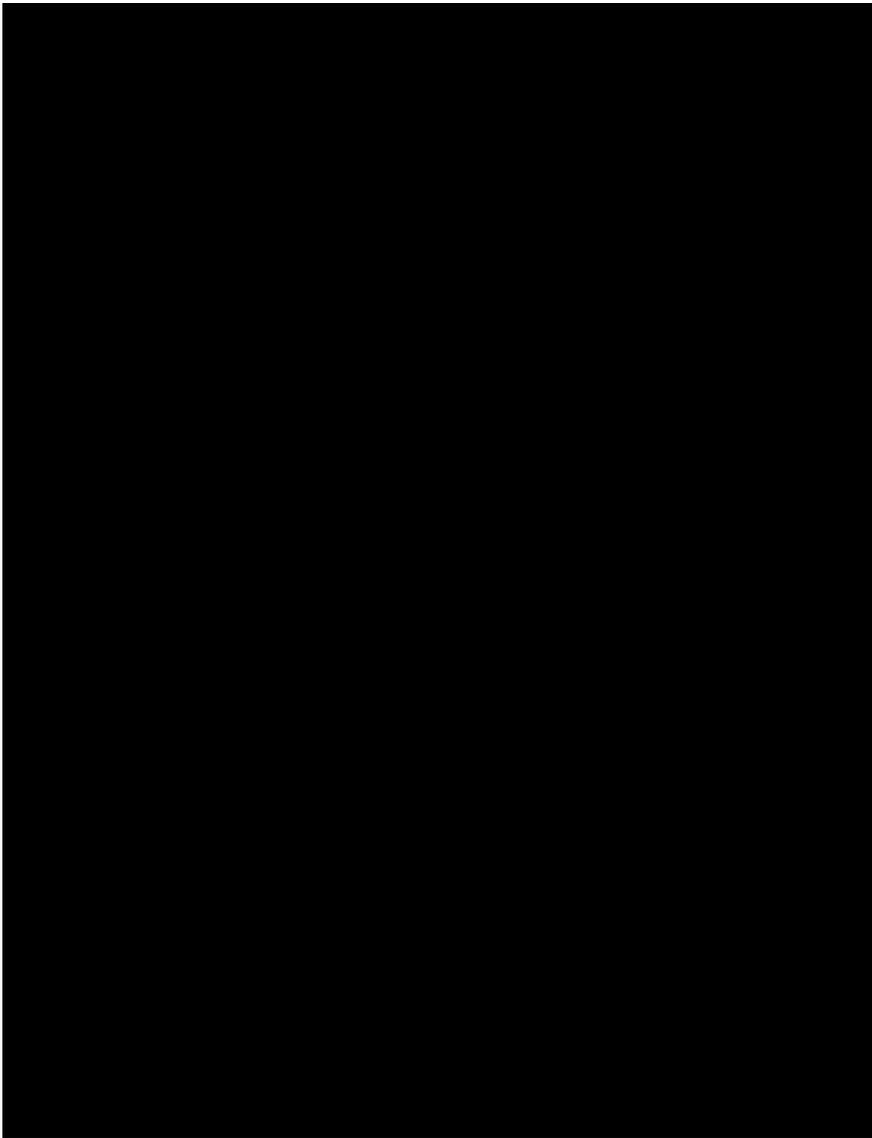
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 56 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 57 of 137

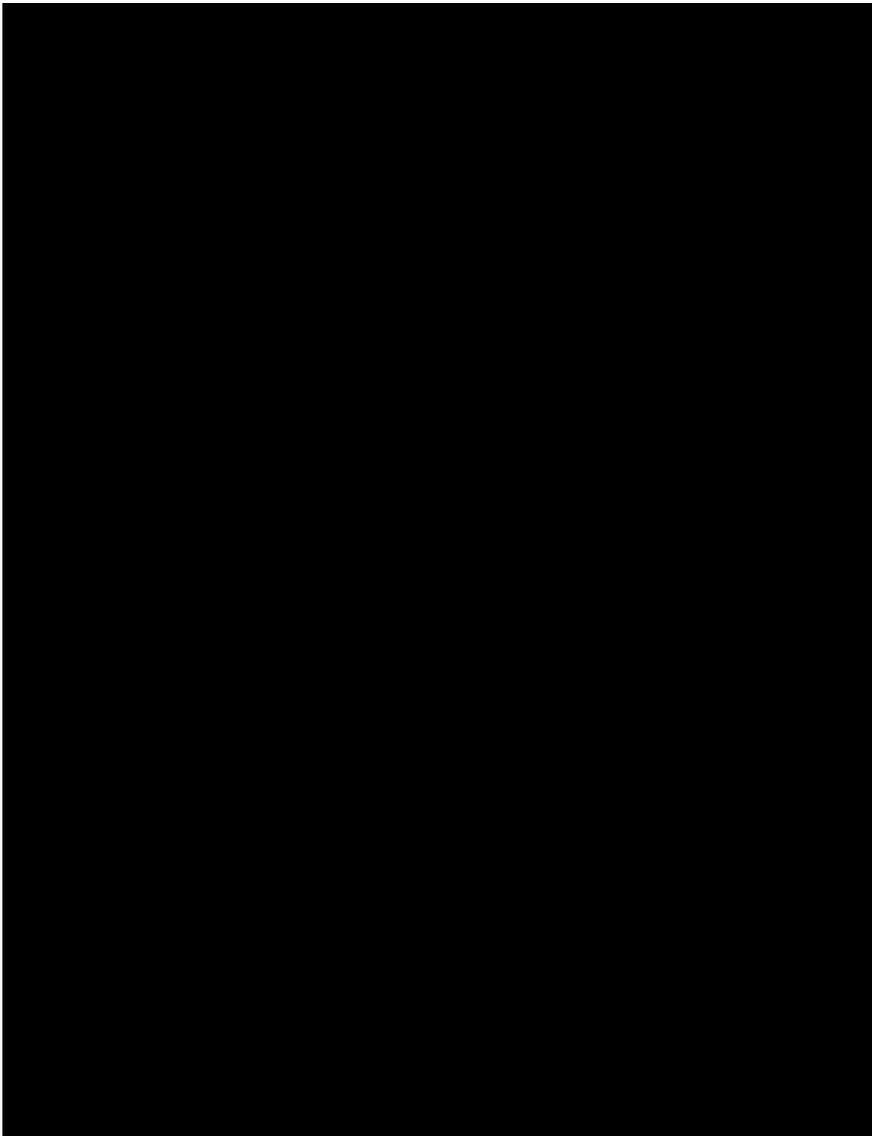
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 57 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 58 of 137

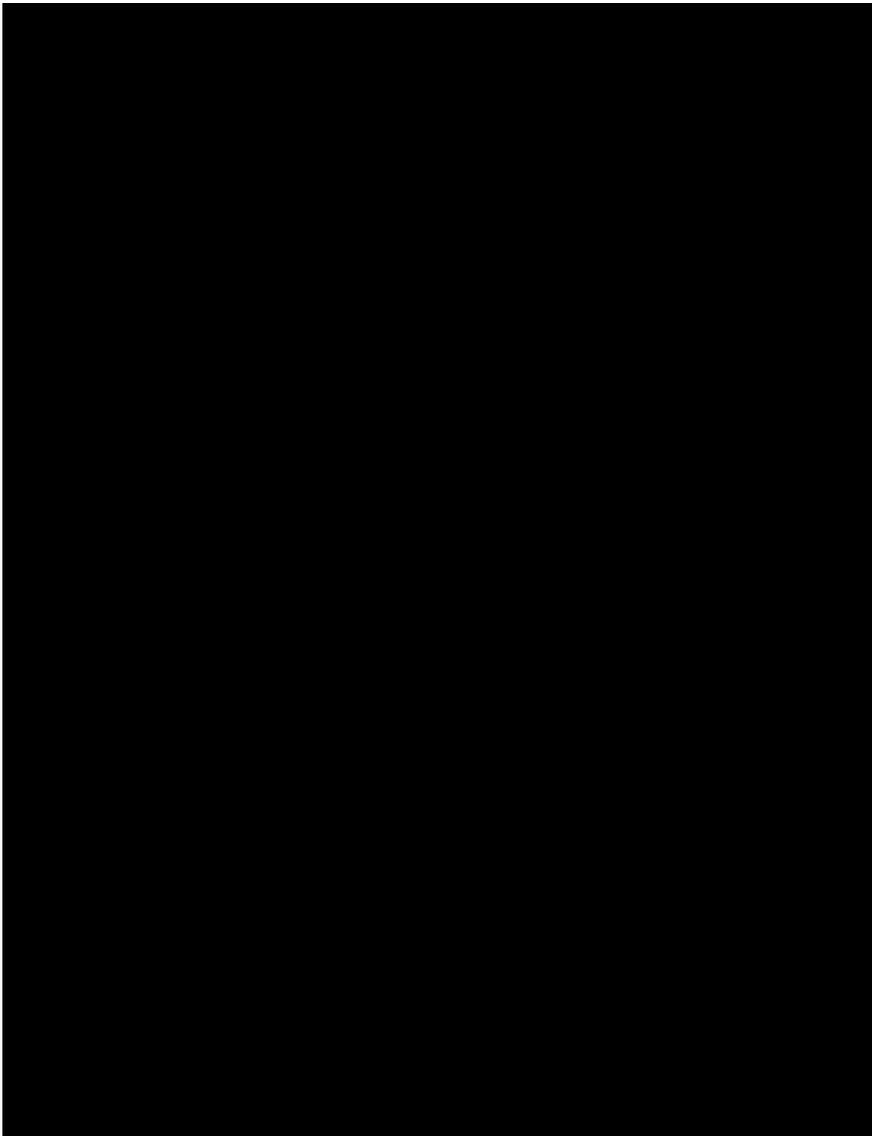
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 58 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 59 of 137

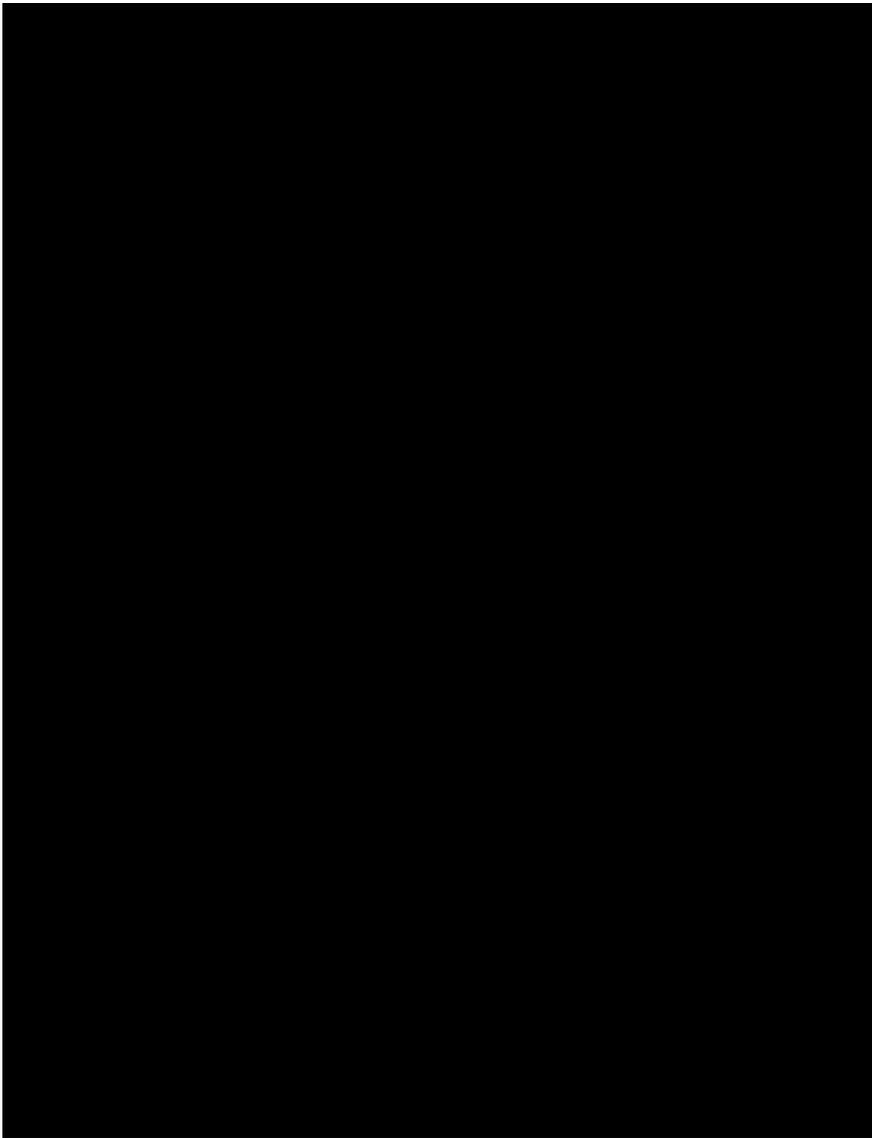
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 59 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 60 of 137

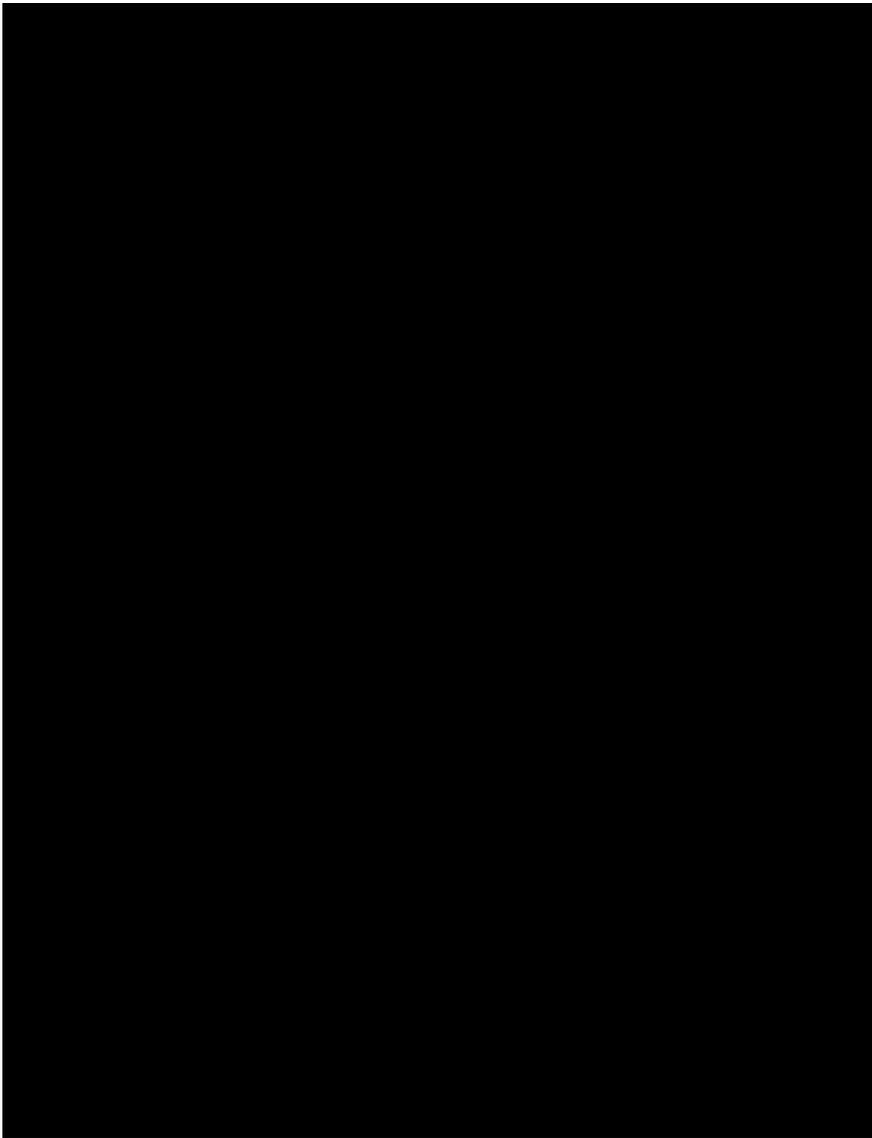
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 60 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 61 of 137

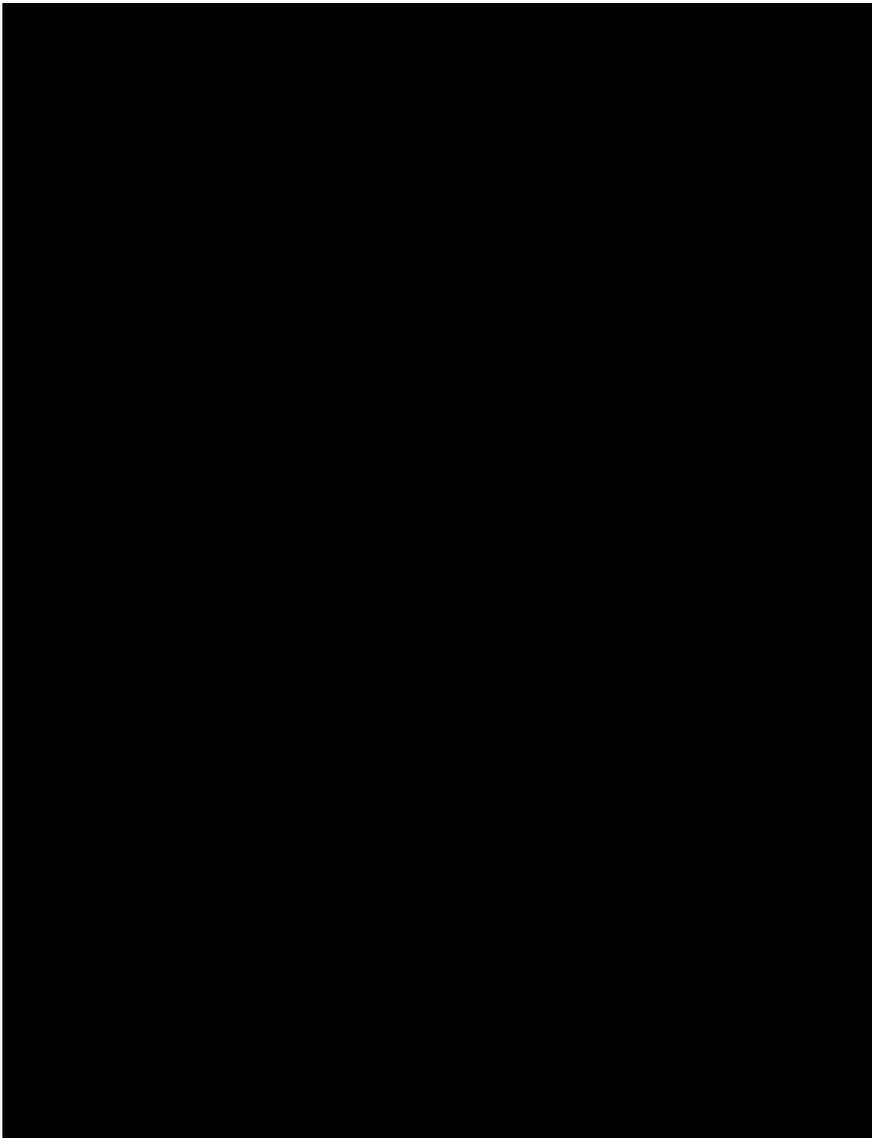
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 61 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 62 of 137

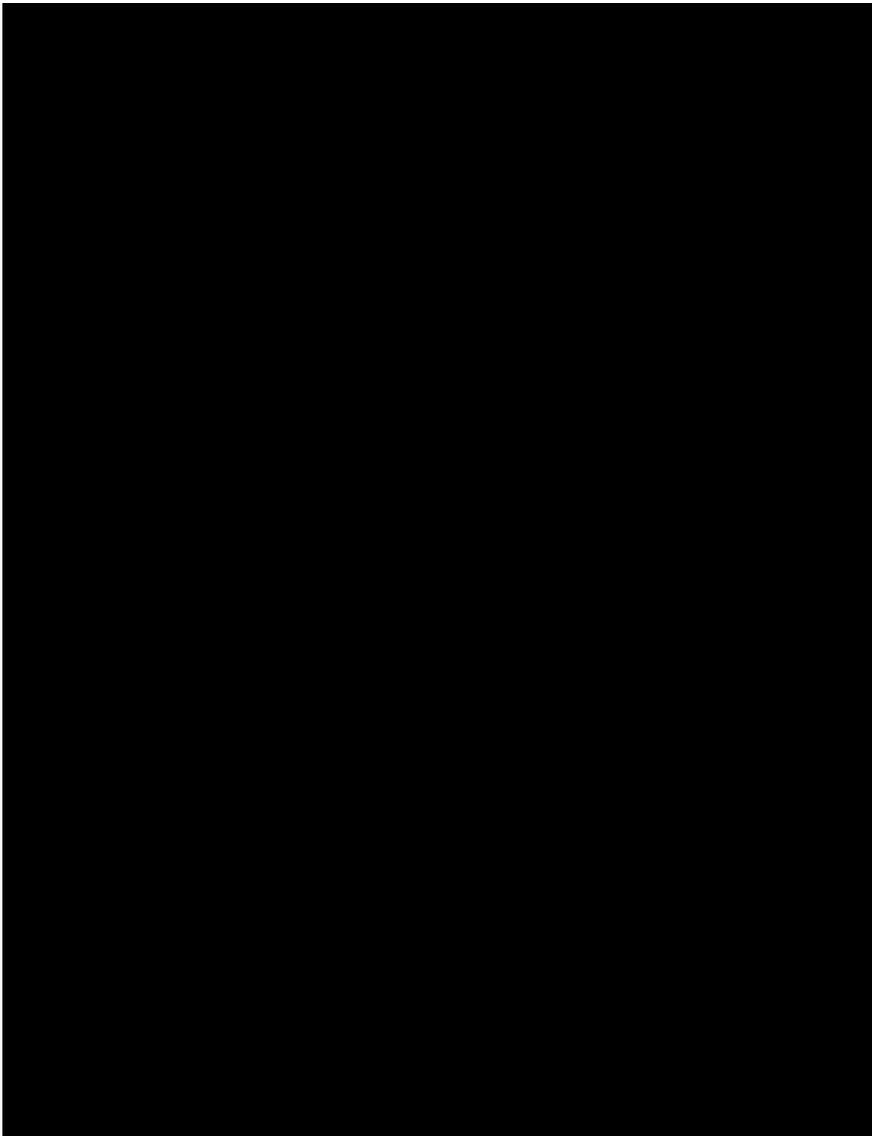
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 62 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 63 of 137

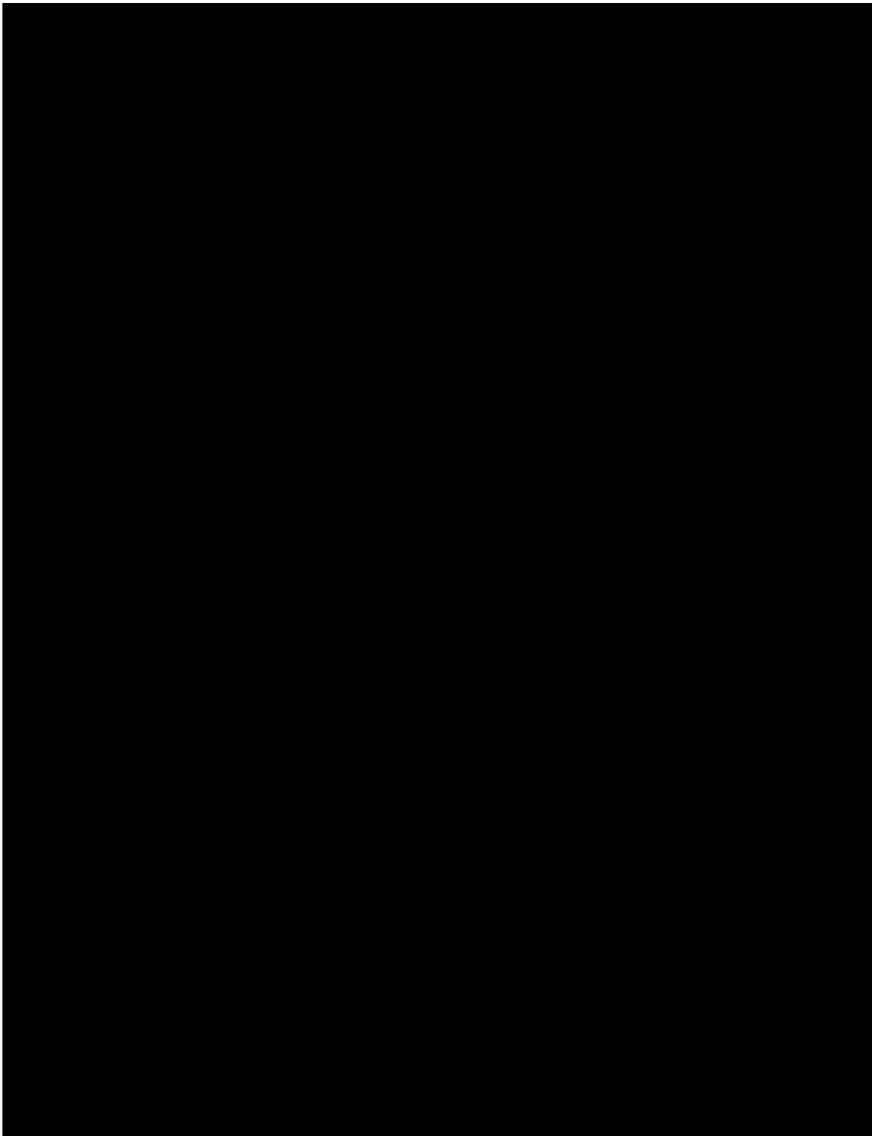
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 63 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 64 of 137

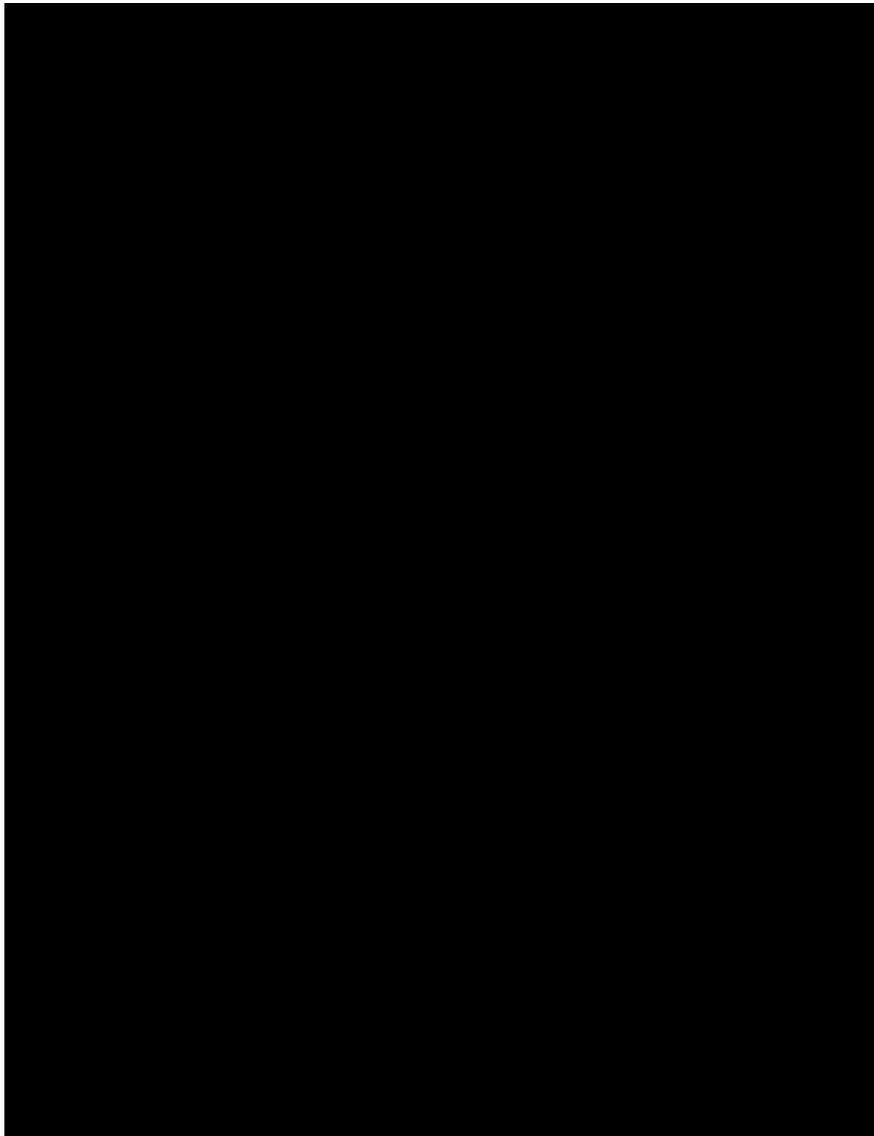
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 64 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 65 of 137

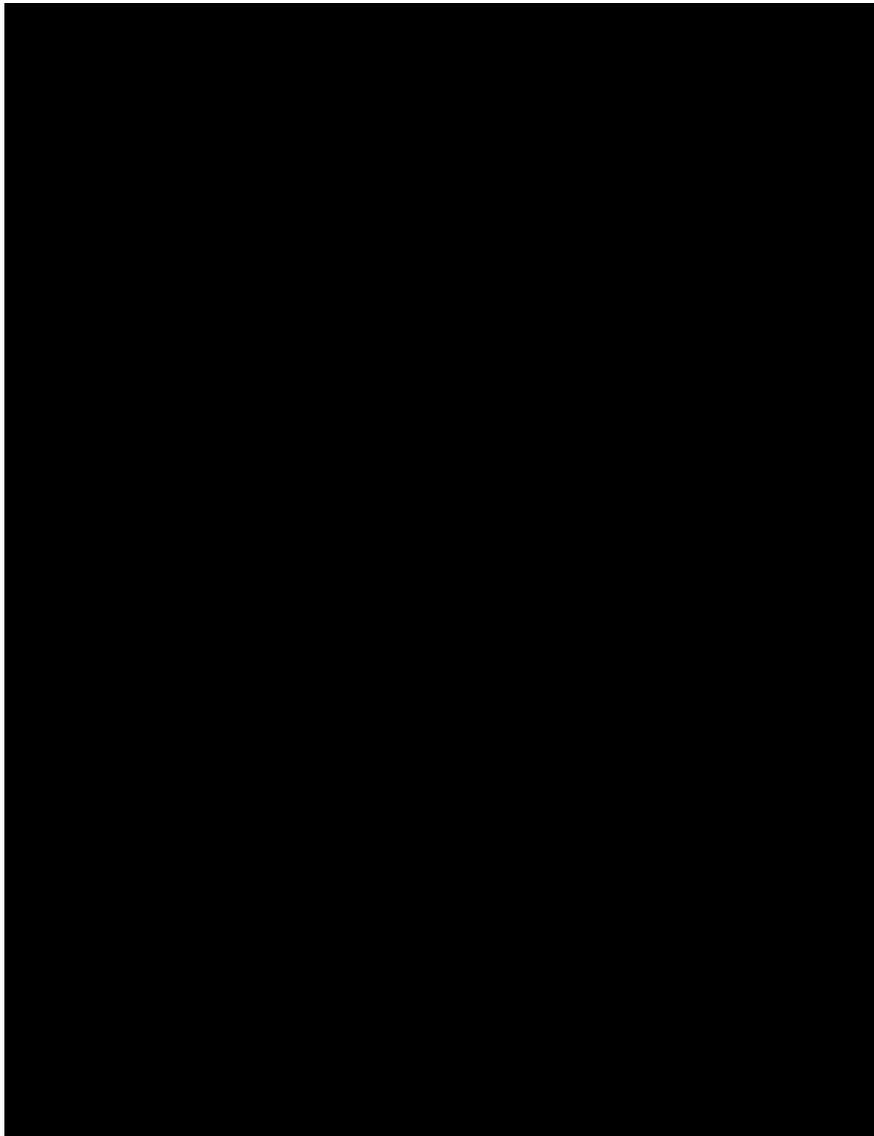
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 65 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 66 of 137

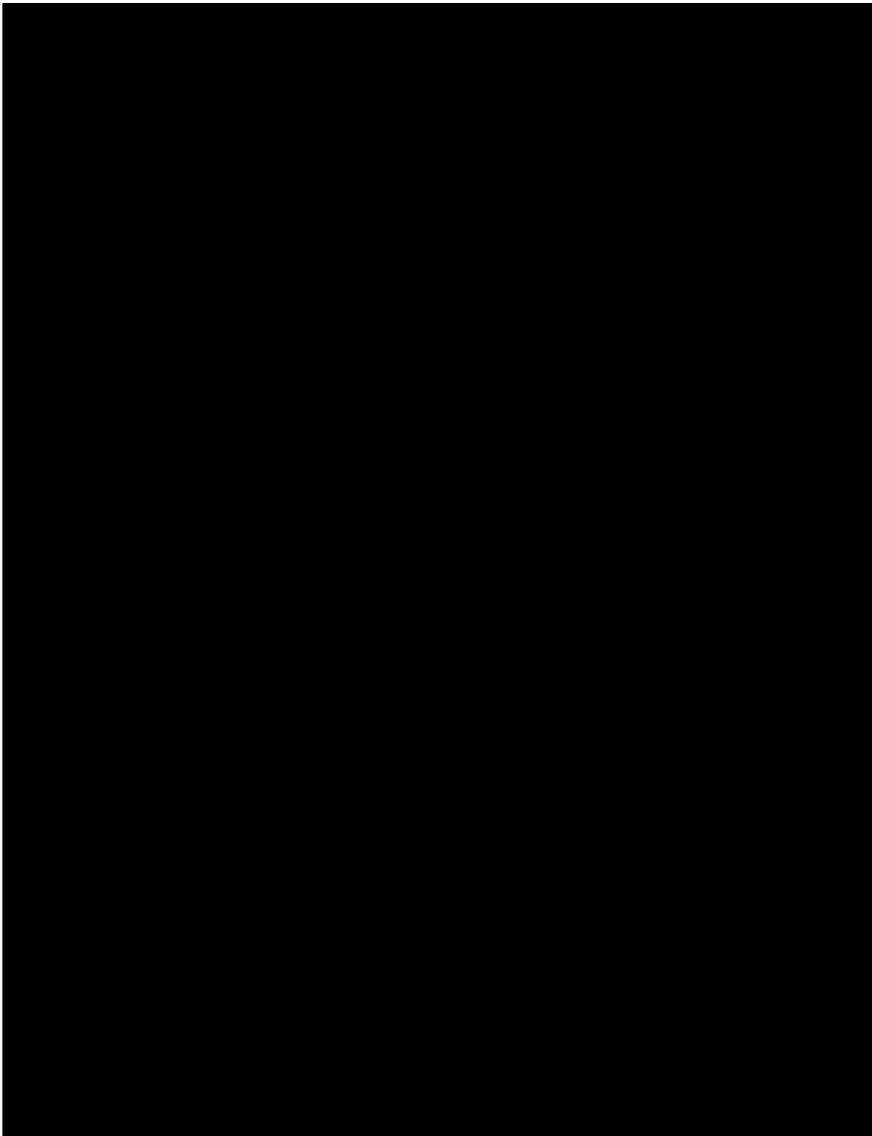
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 66 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 67 of 137

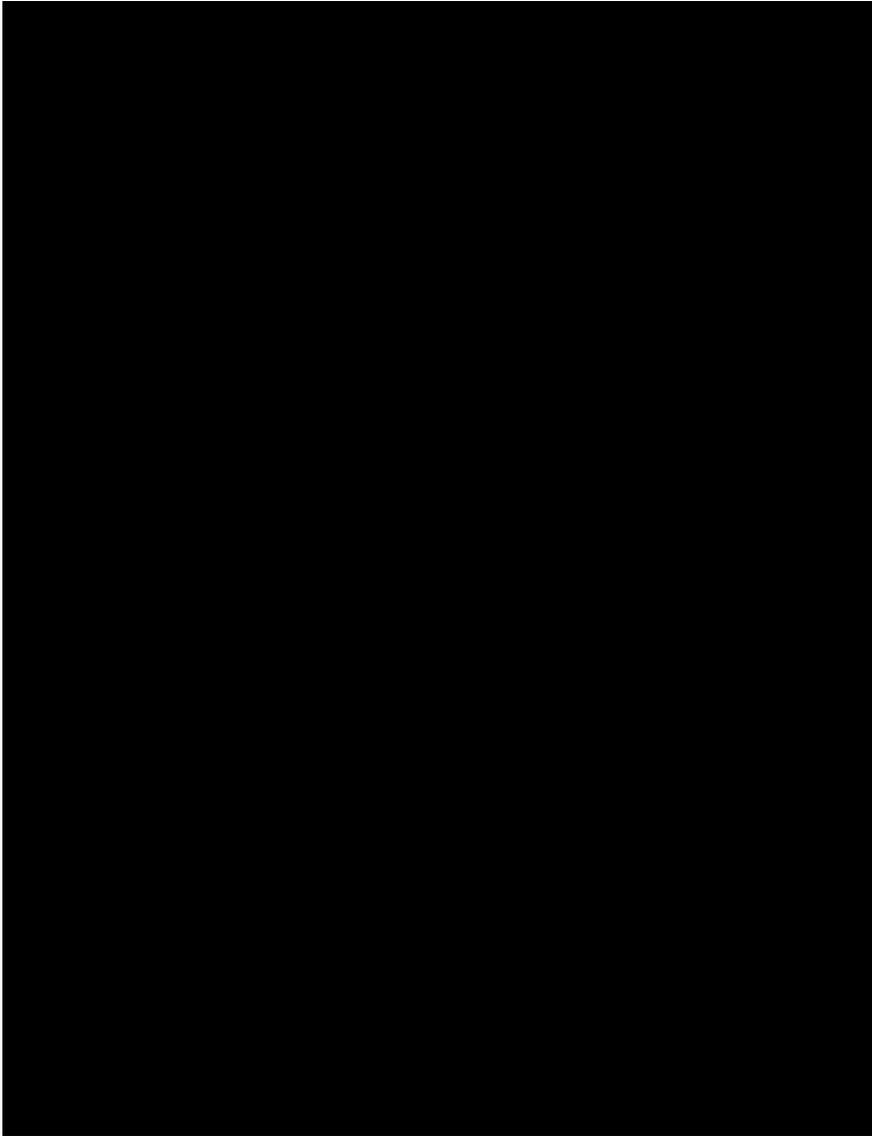
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 67 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 68 of 137

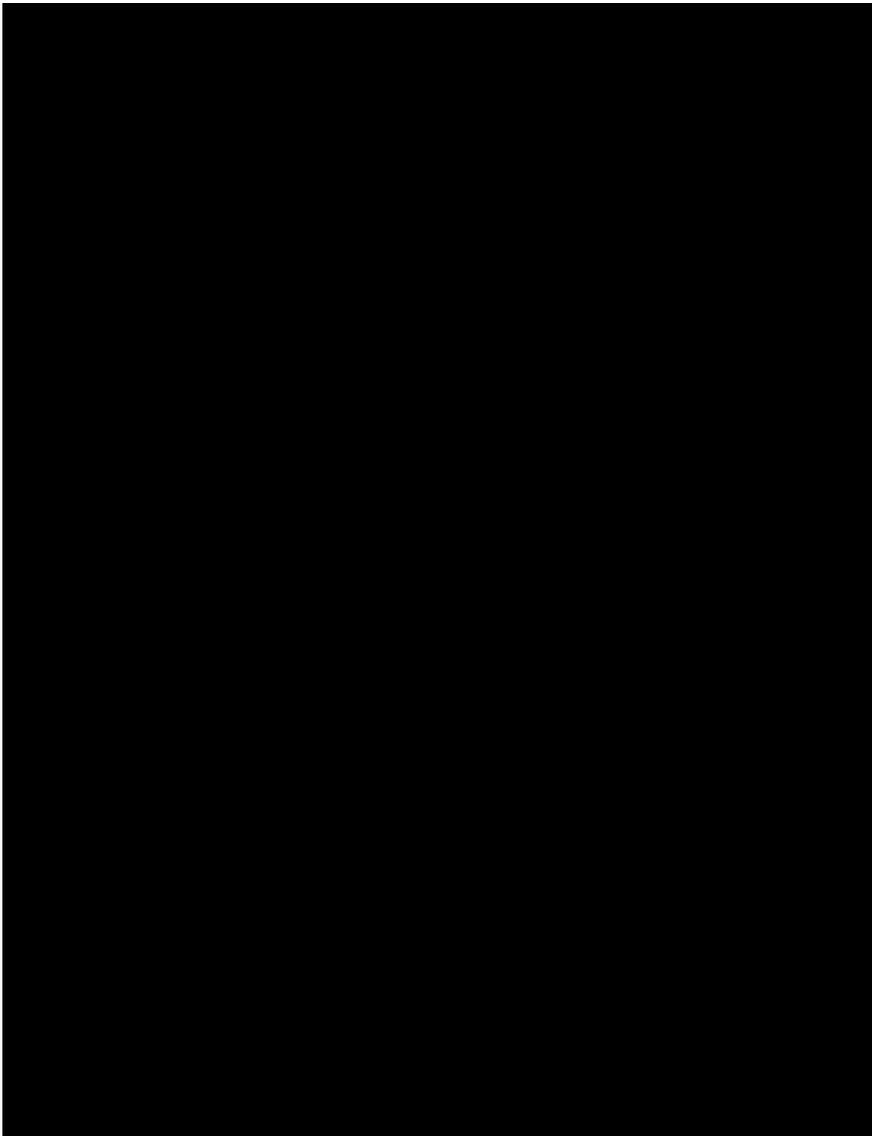
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 68 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 69 of 137

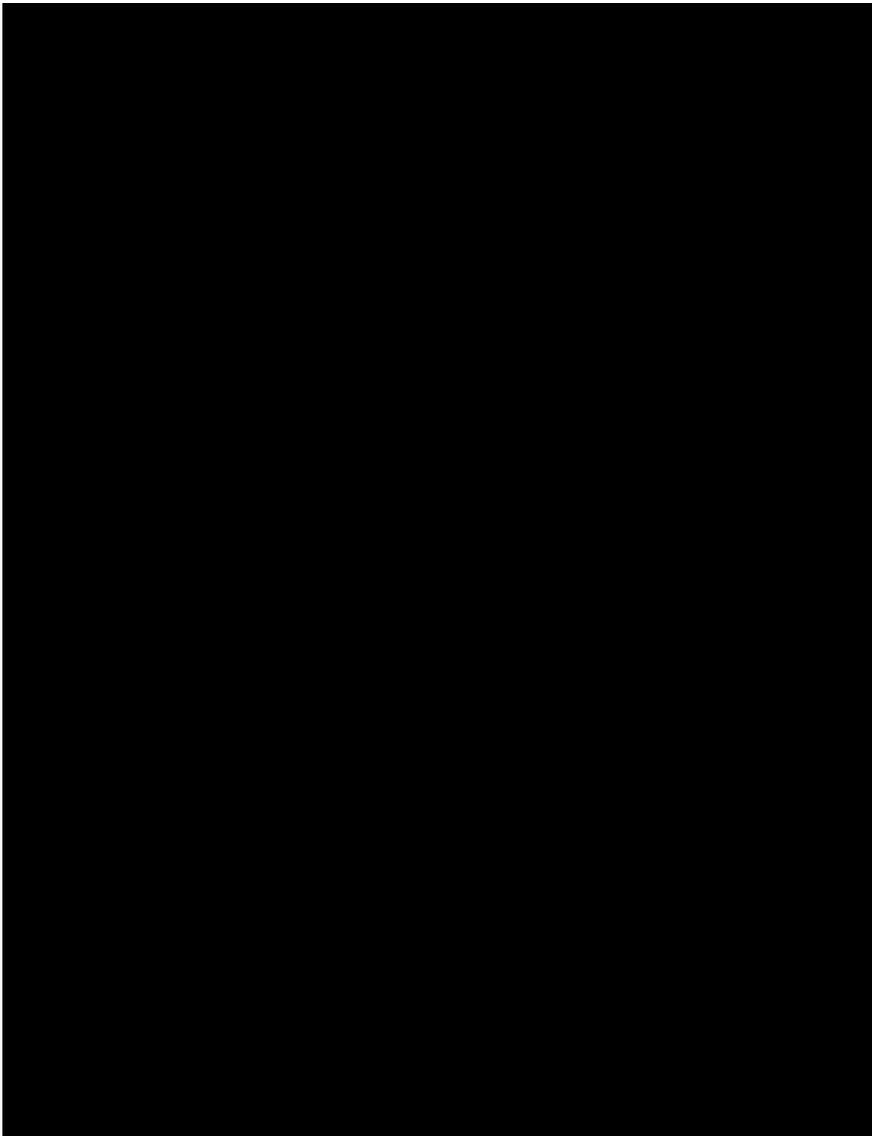
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 69 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 70 of 137

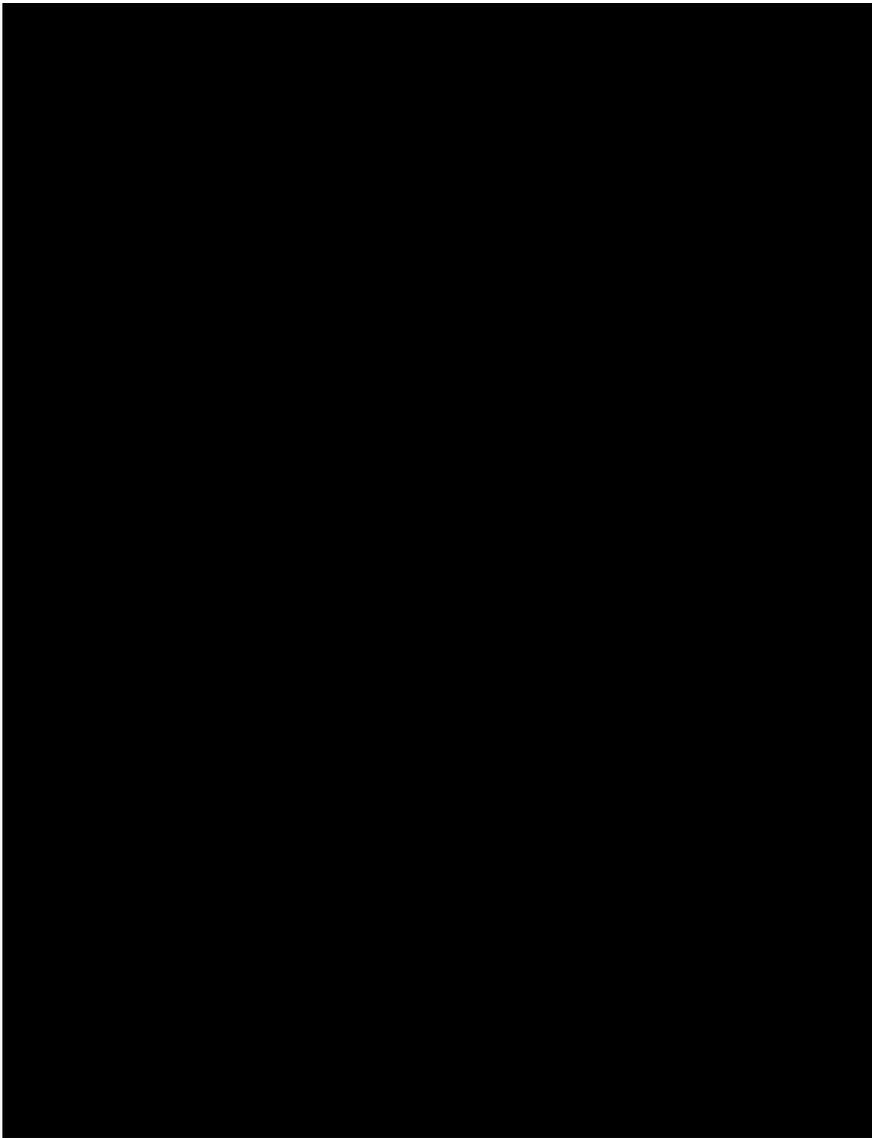
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 70 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 71 of 137

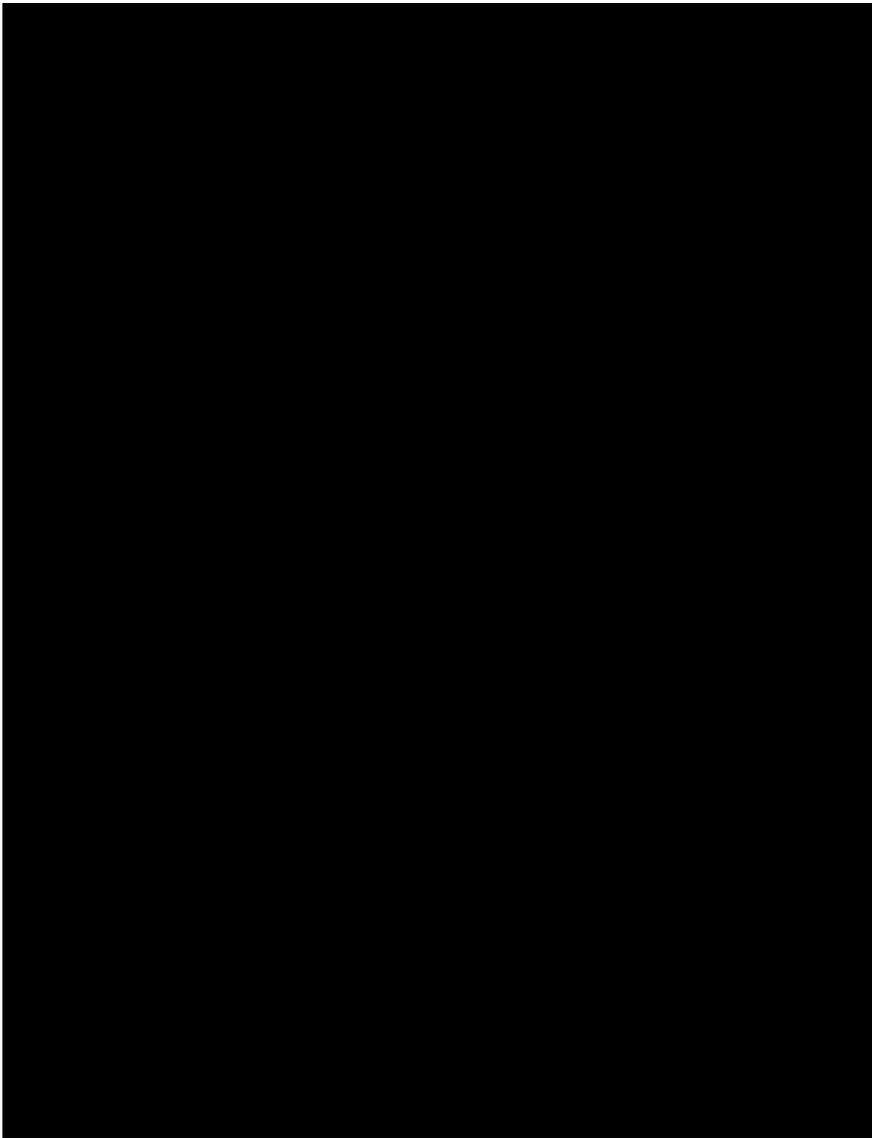
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 71 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 72 of 137

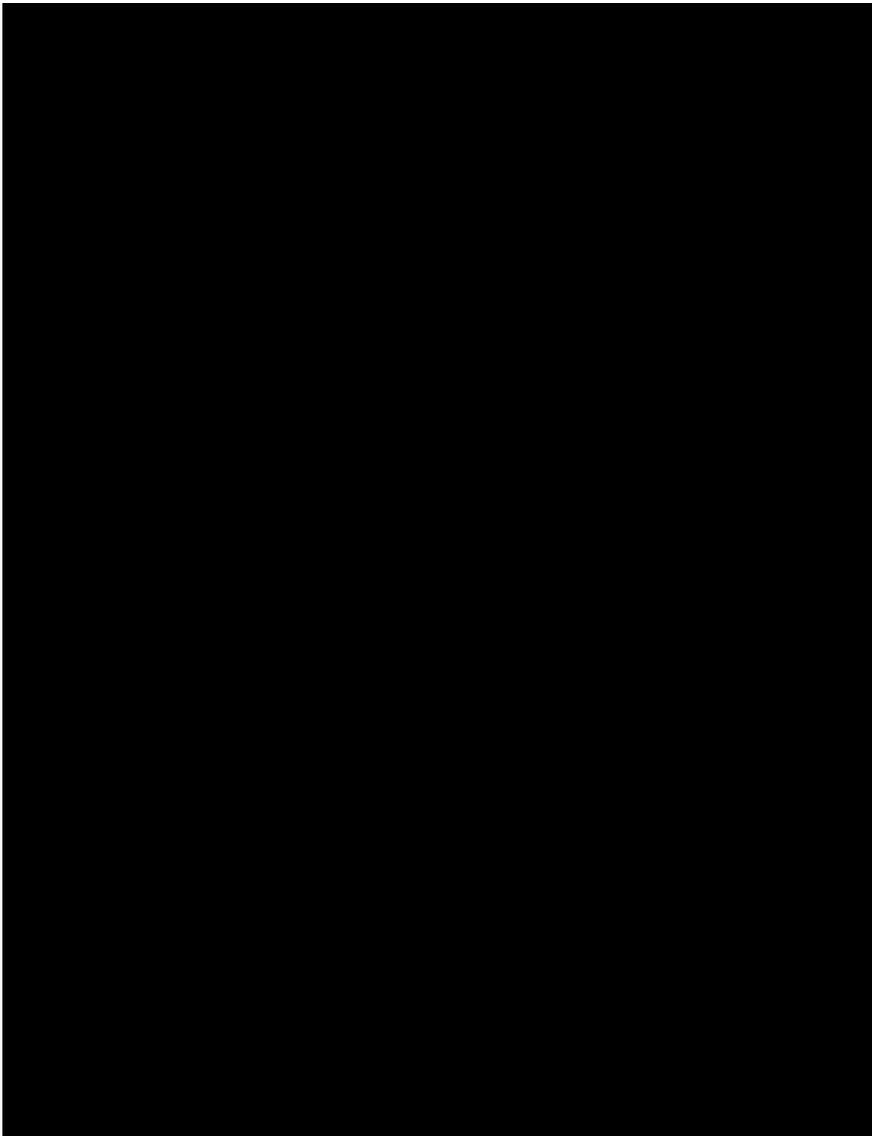
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 72 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 73 of 137

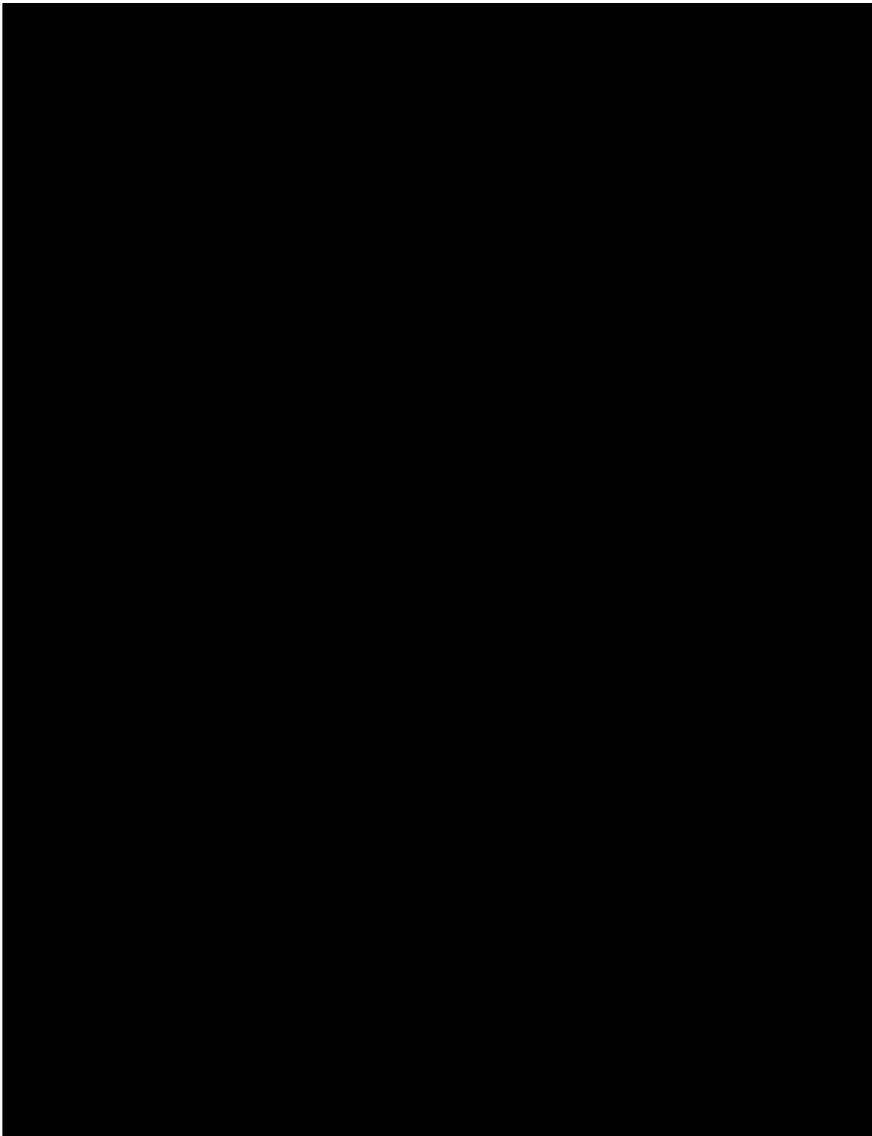
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 73 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 74 of 137

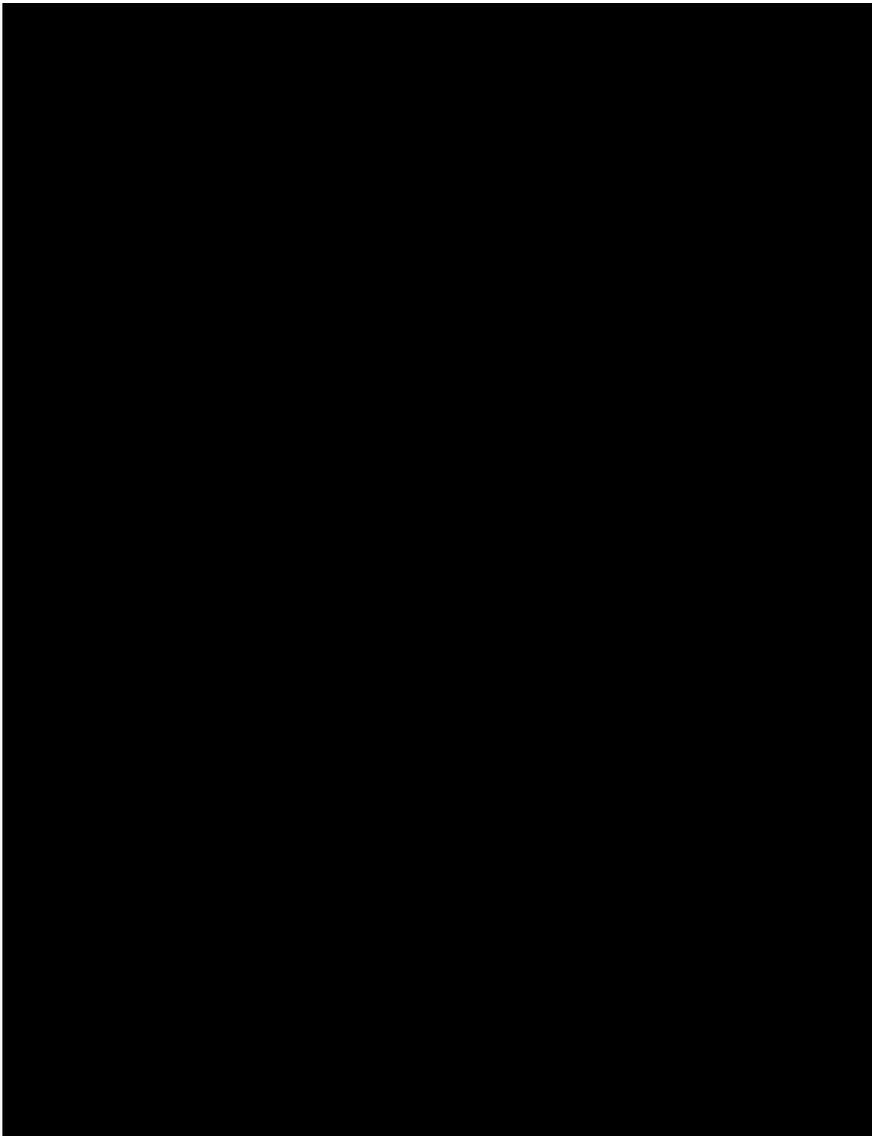
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 74 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 75 of 137

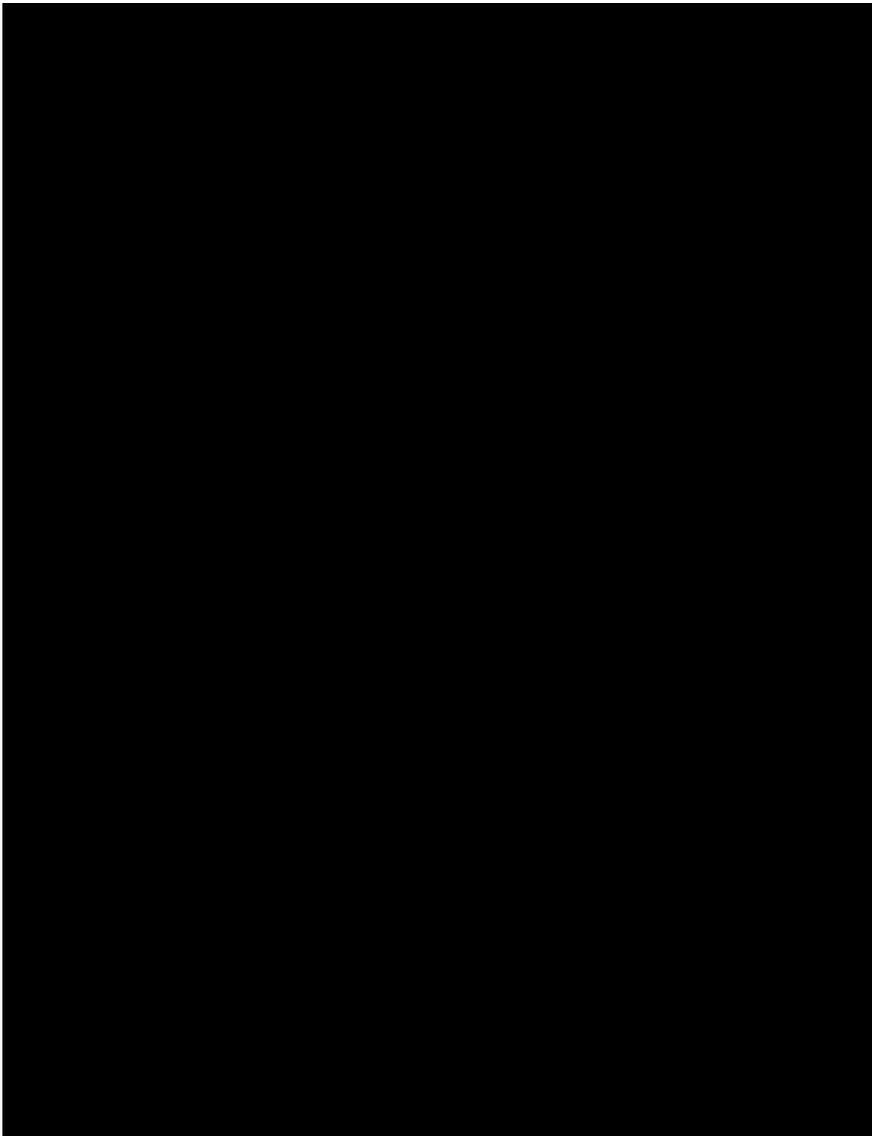
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 75 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 76 of 137

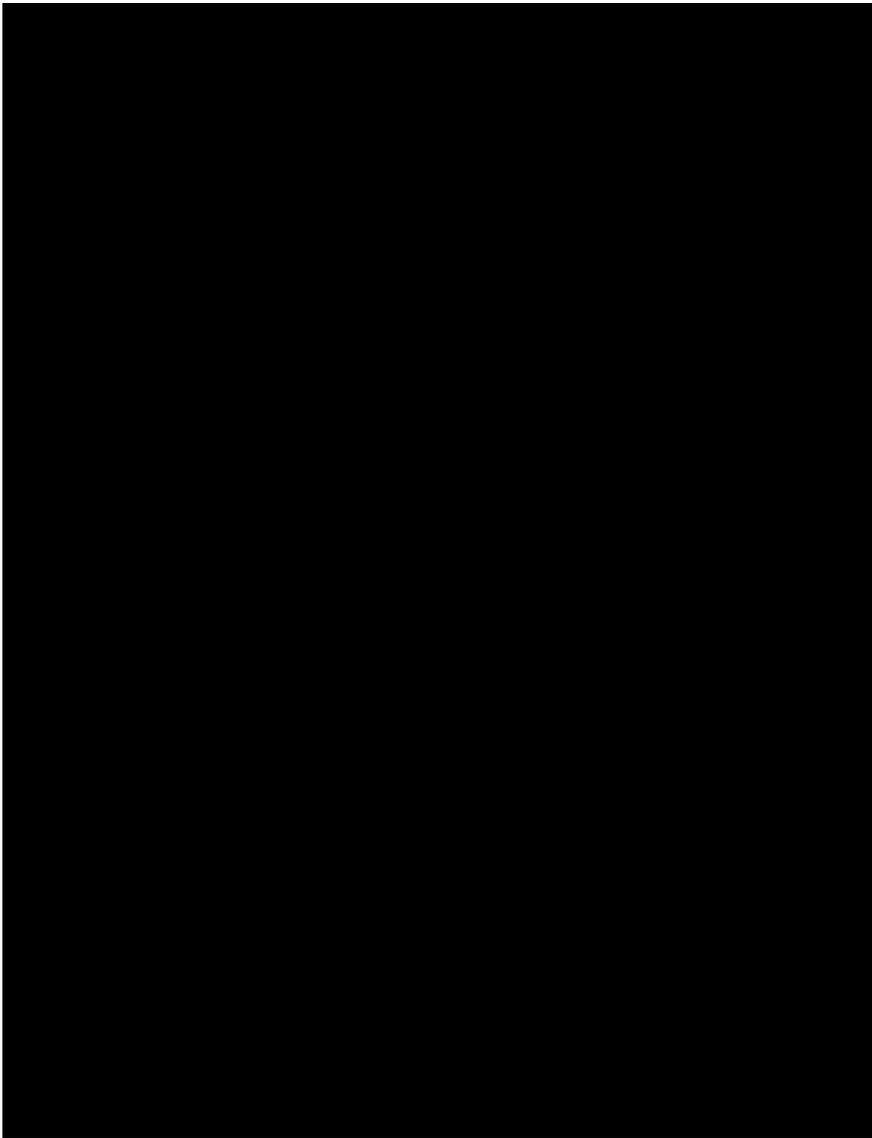
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 76 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 77 of 137

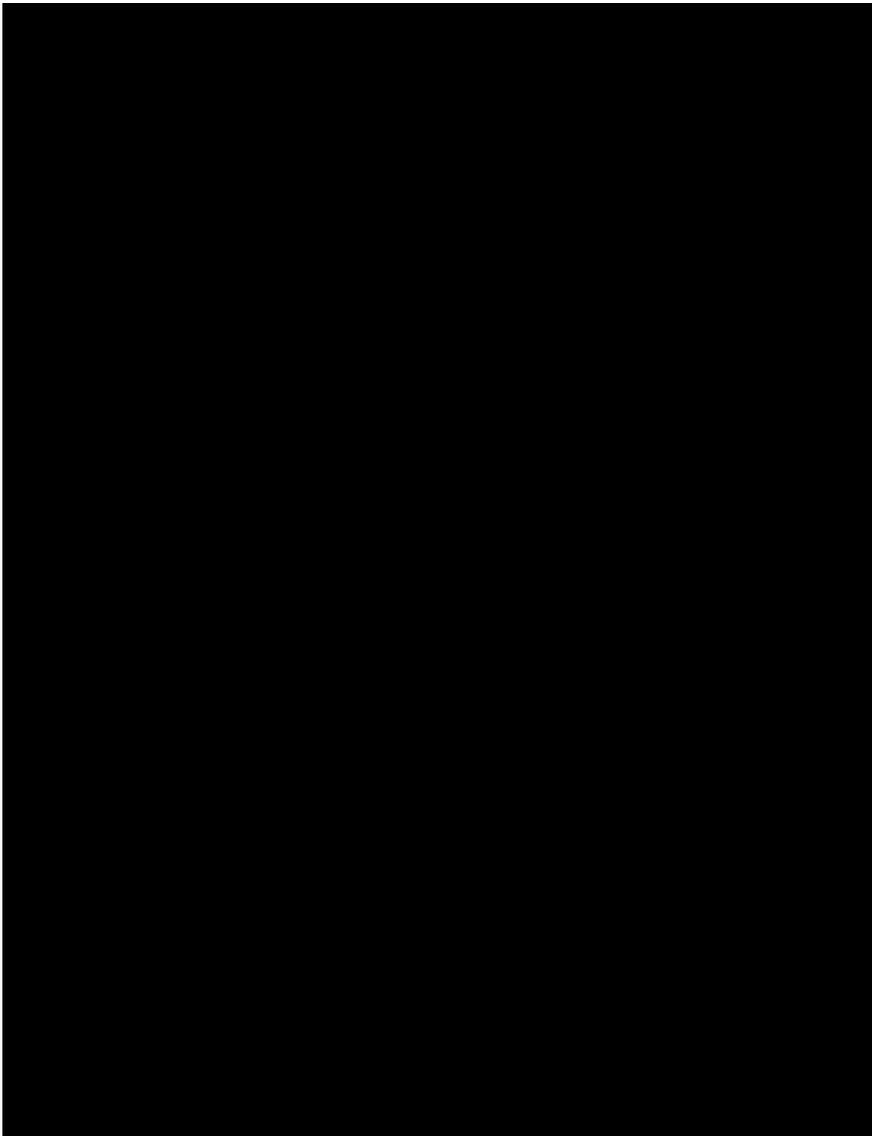
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 77 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 78 of 137

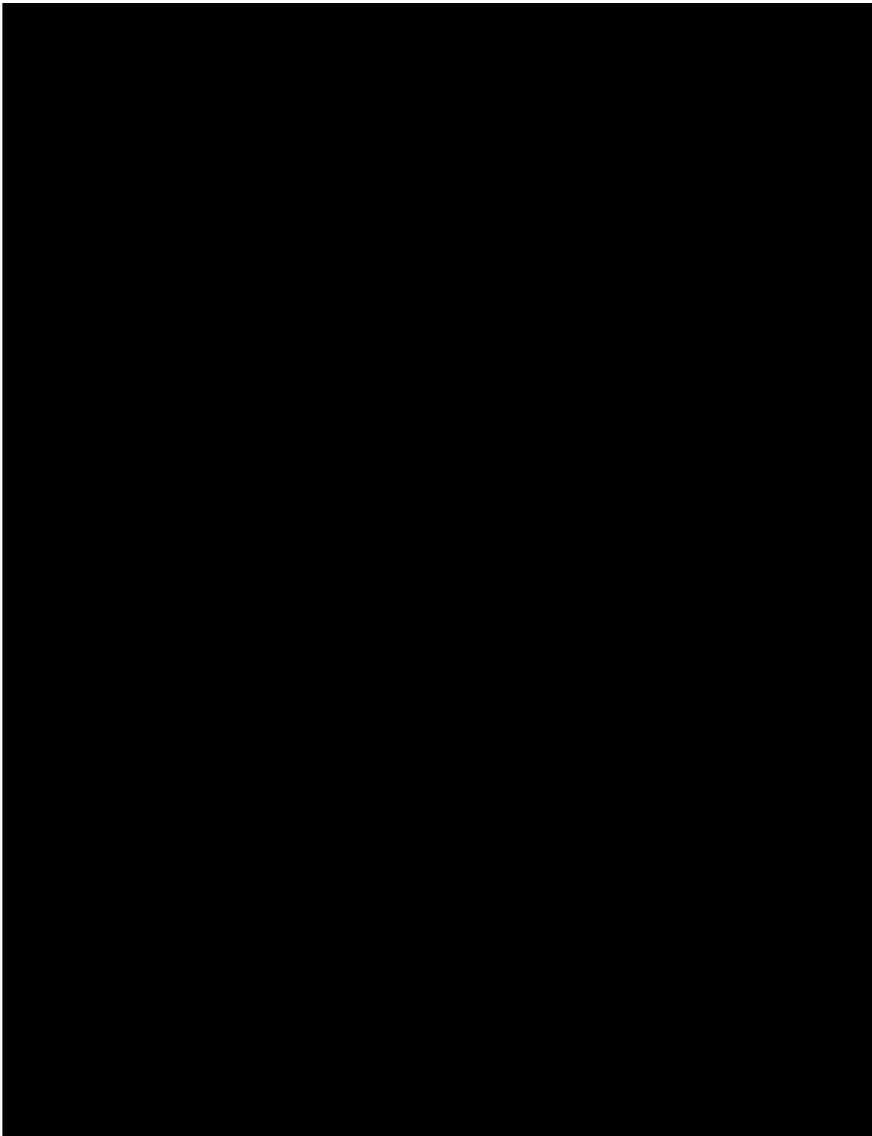
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 78 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 79 of 137

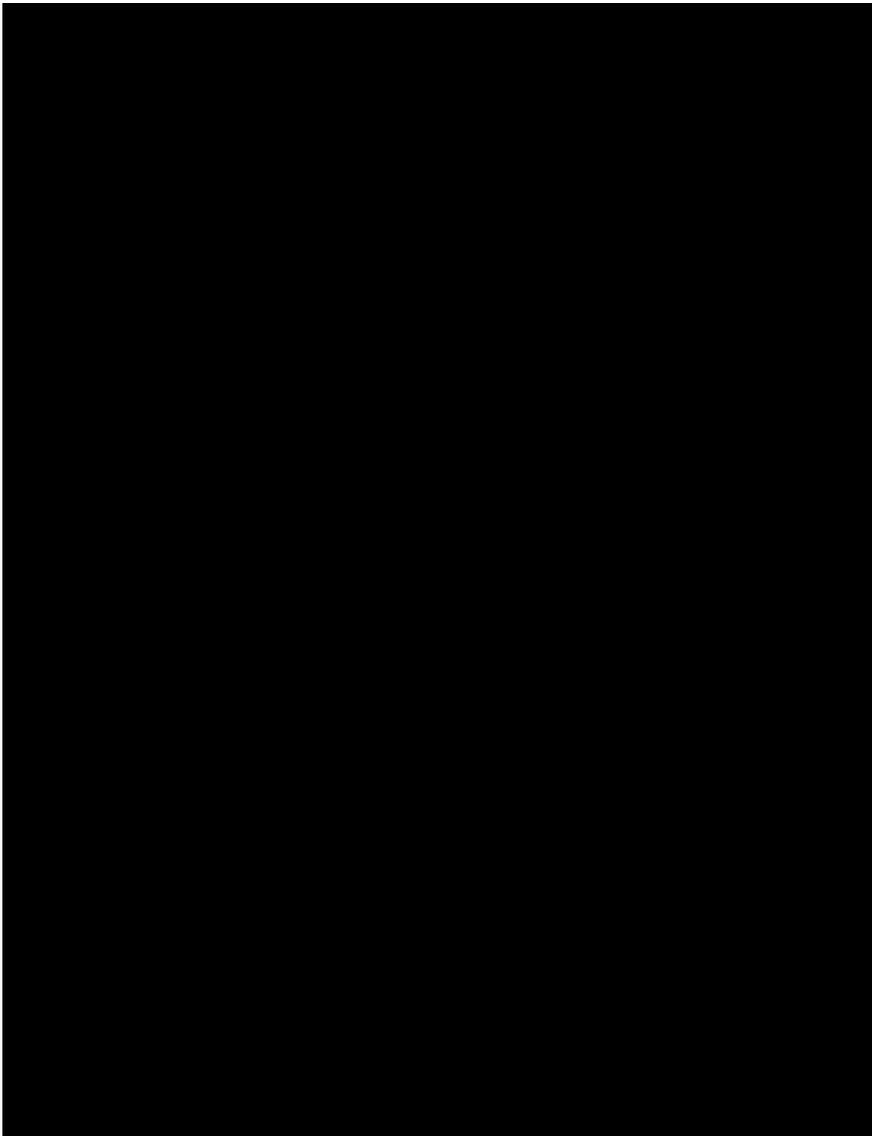
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 79 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 80 of 137

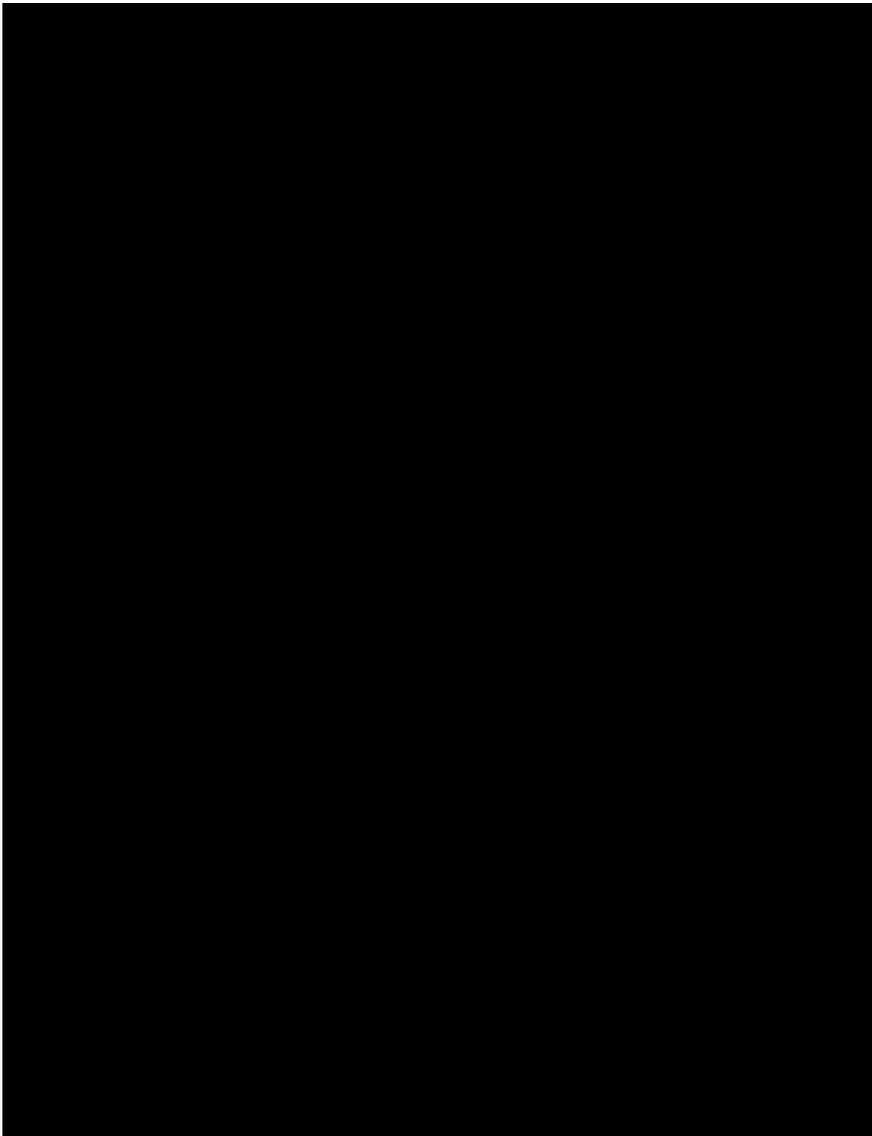
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 80 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 81 of 137

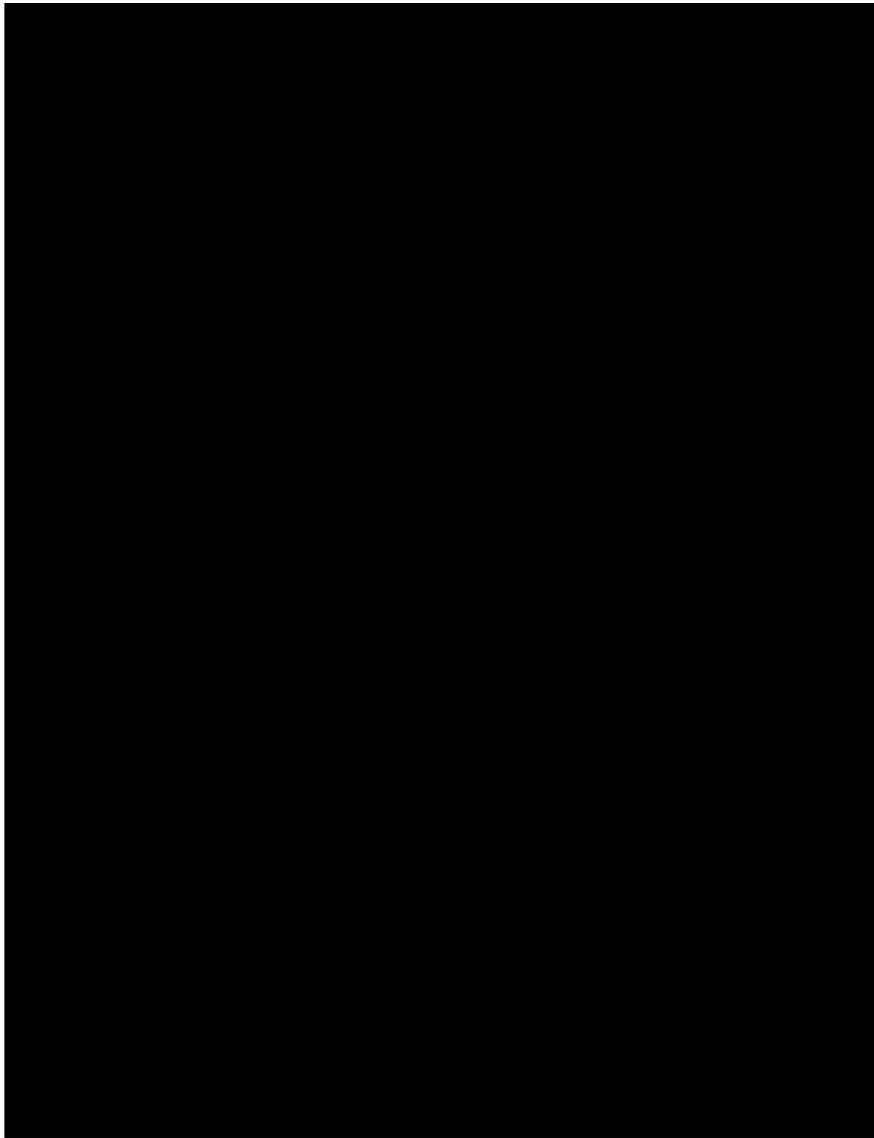
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 81 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 82 of 137

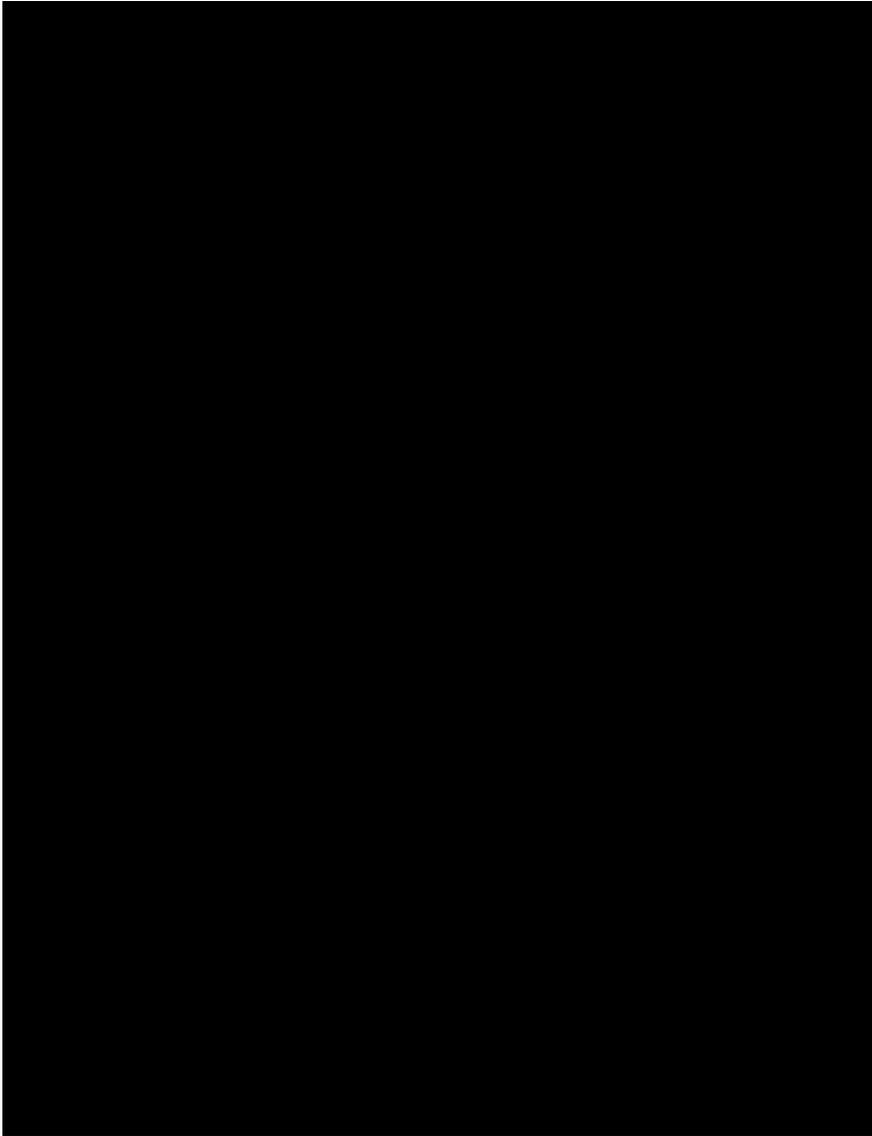
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 82 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 83 of 137

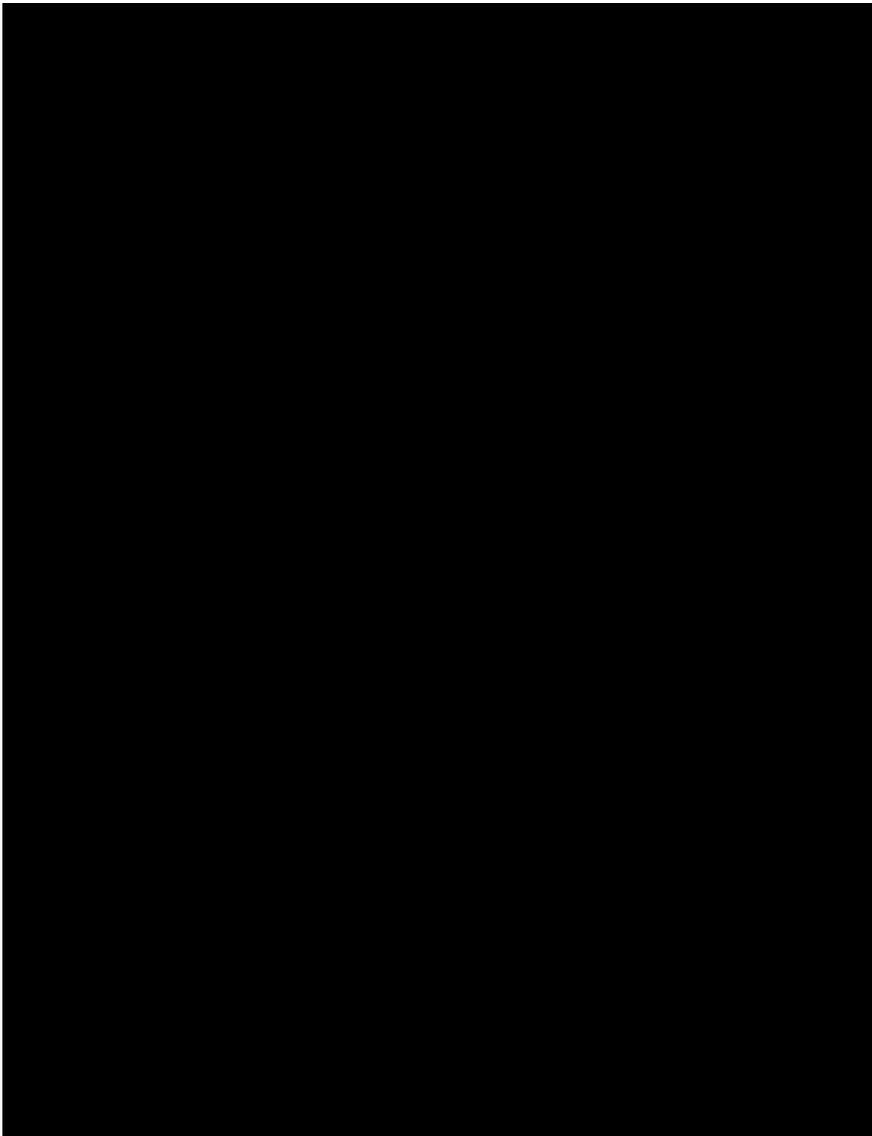
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 83 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 84 of 137

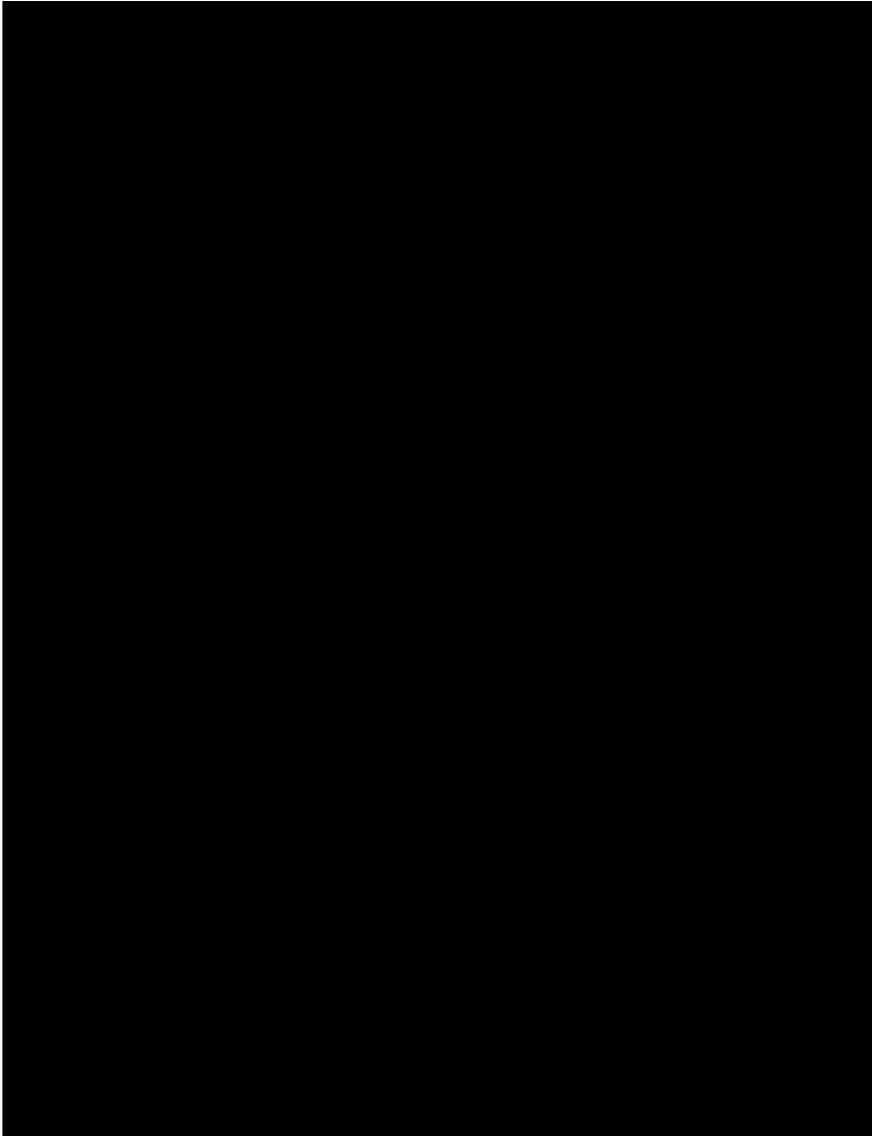
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 84 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 85 of 137

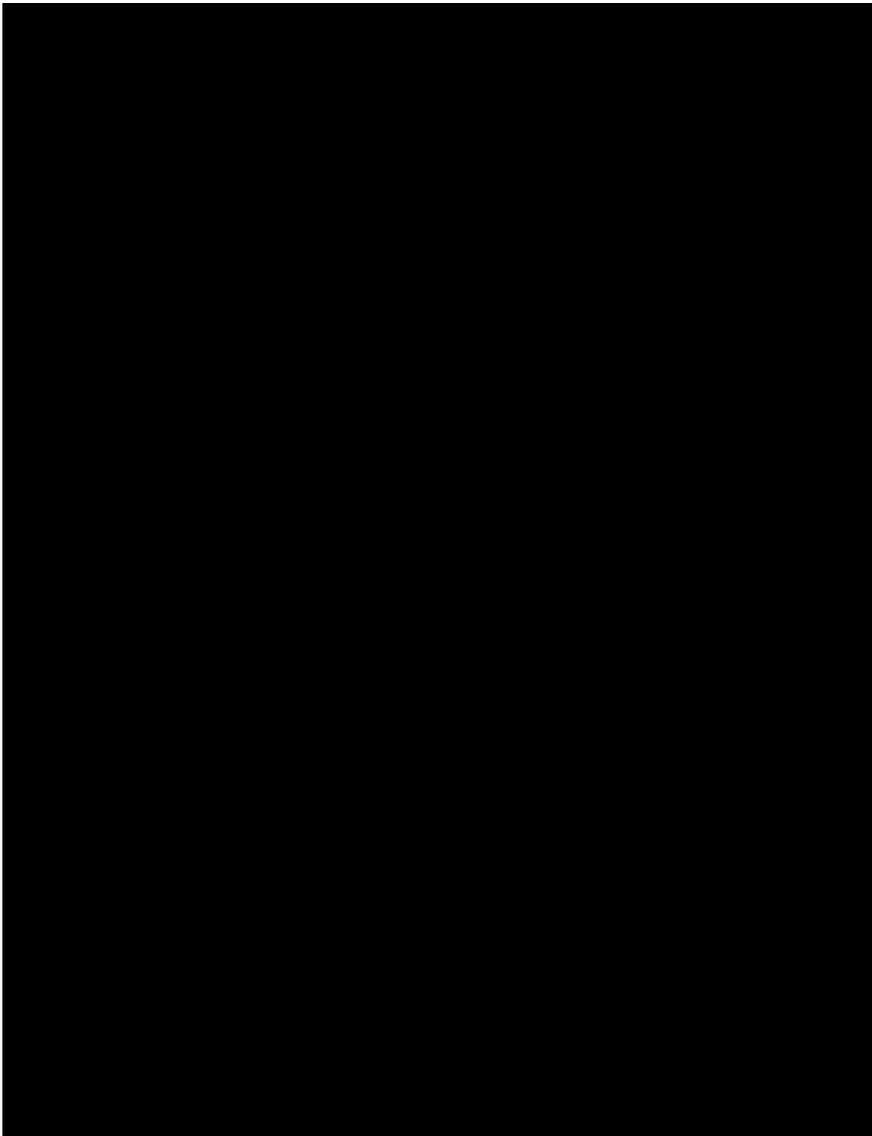
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 85 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 86 of 137

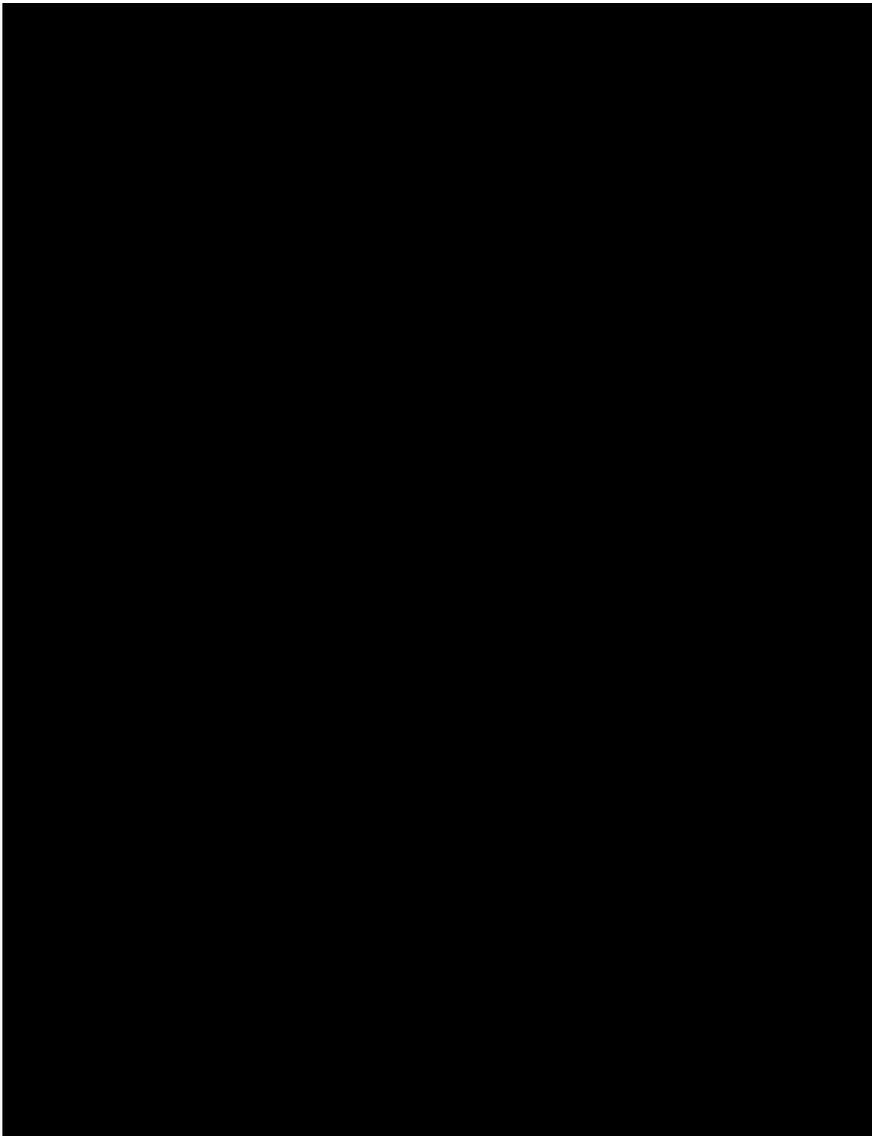
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 86 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 87 of 137

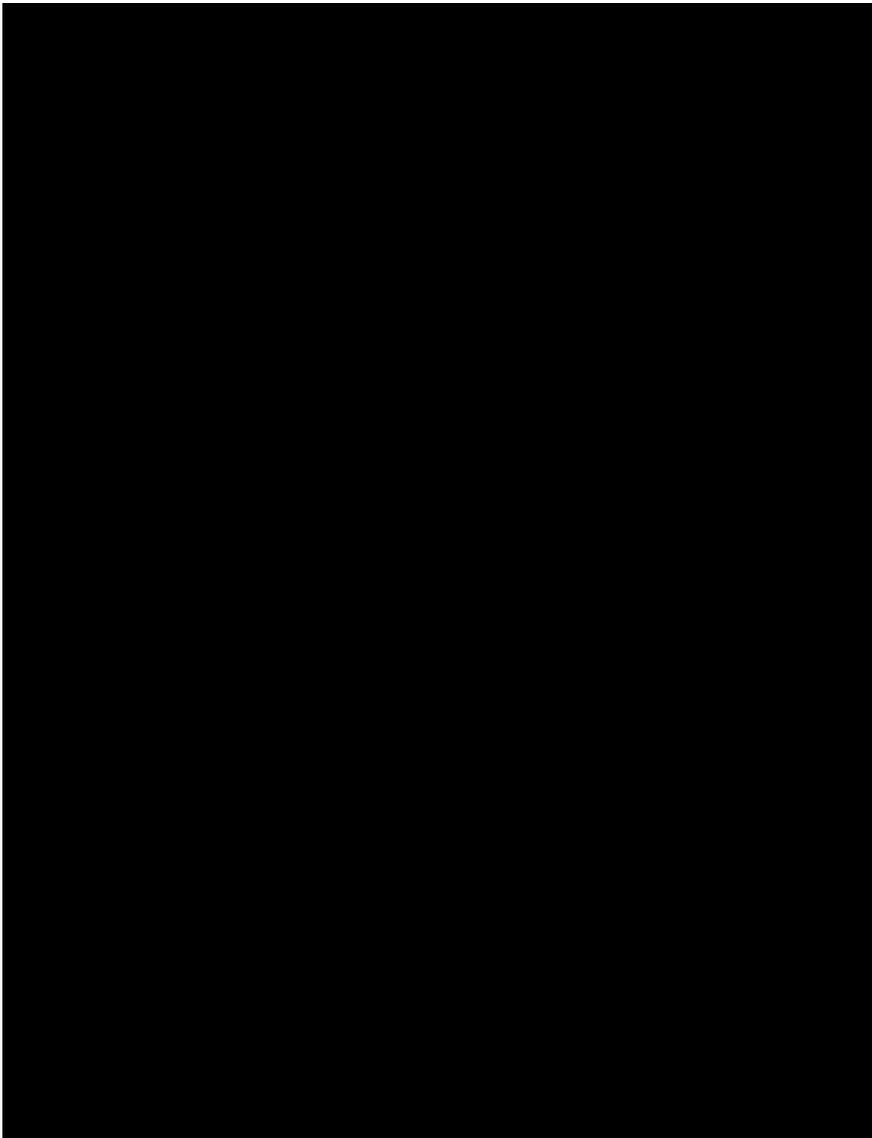
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 87 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 88 of 137

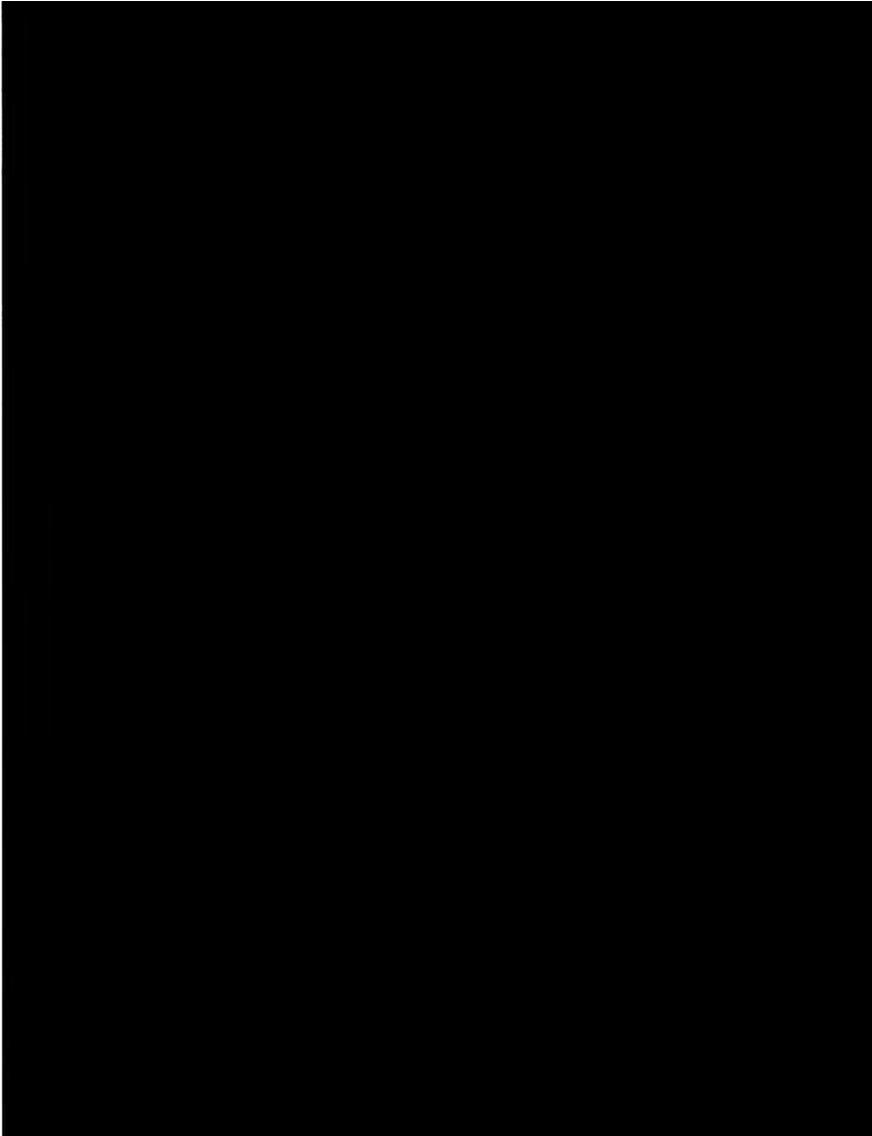
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 88 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 89 of 137

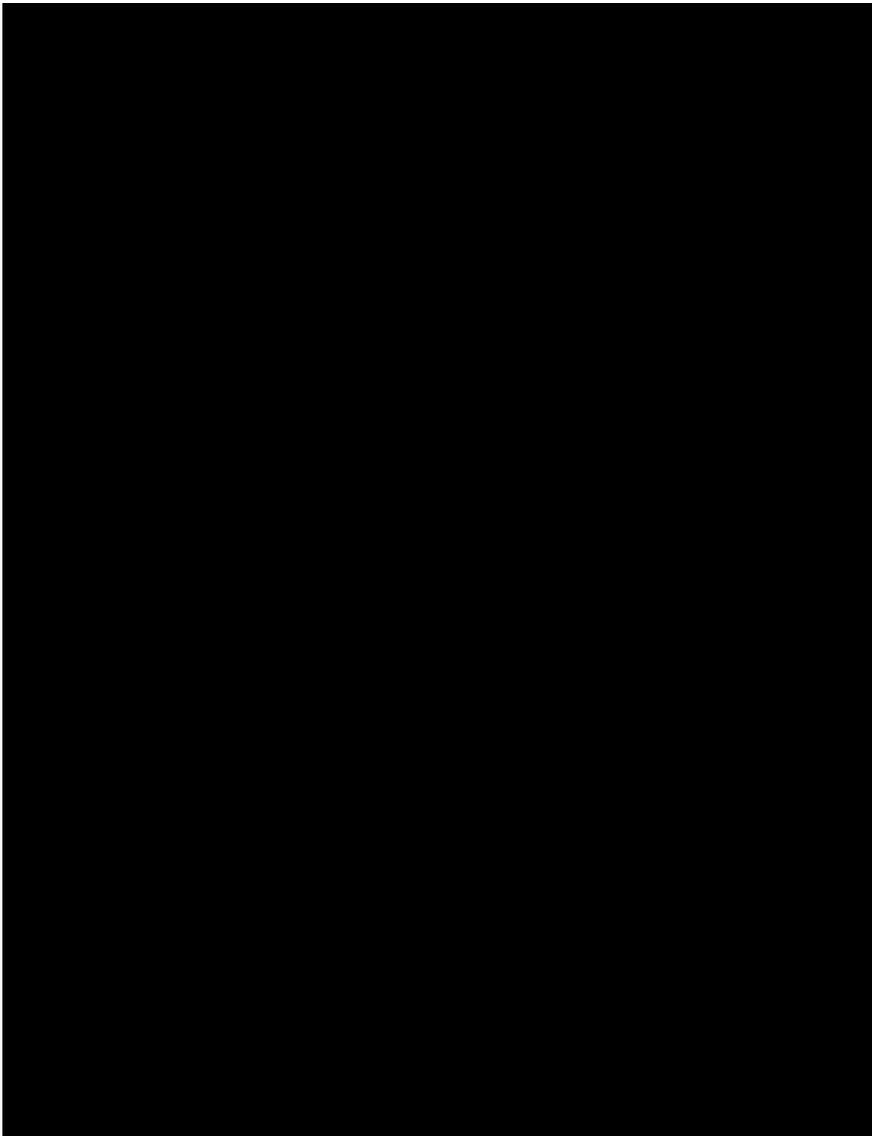
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 89 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 90 of 137

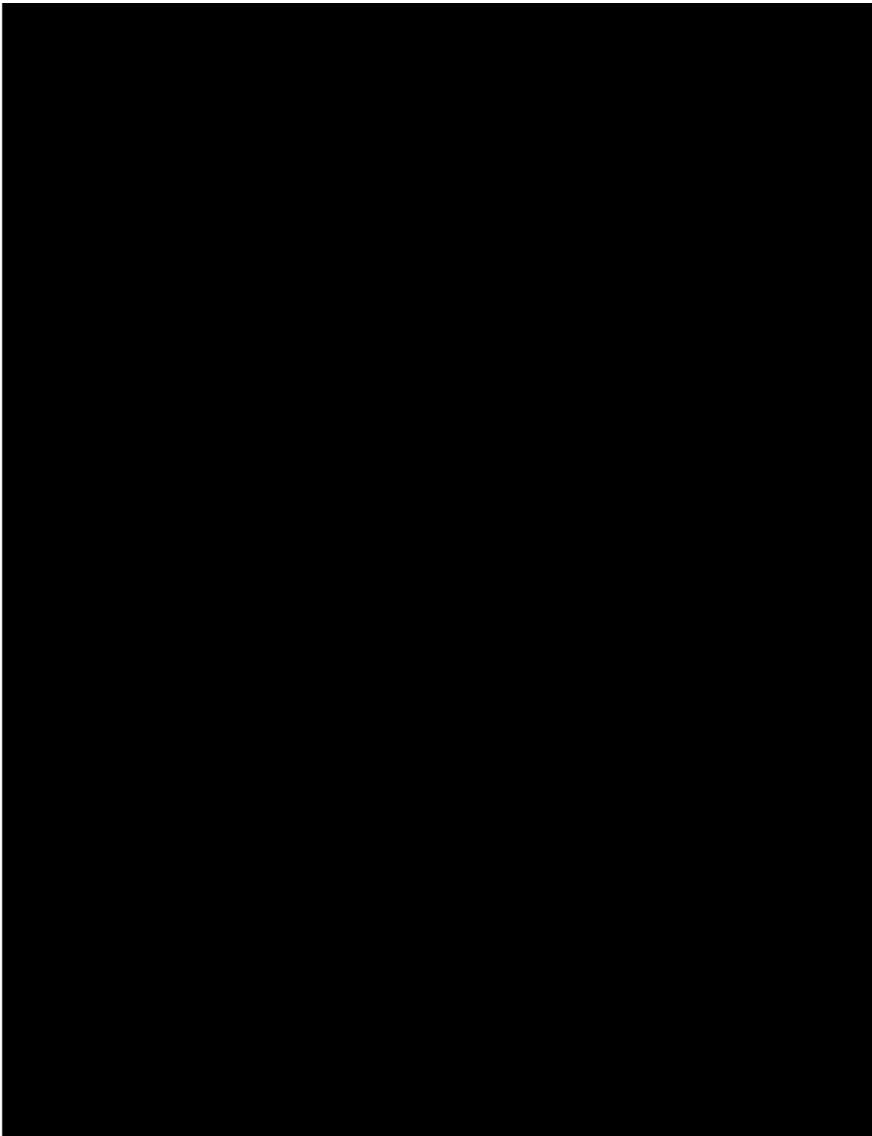
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 90 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 91 of 137

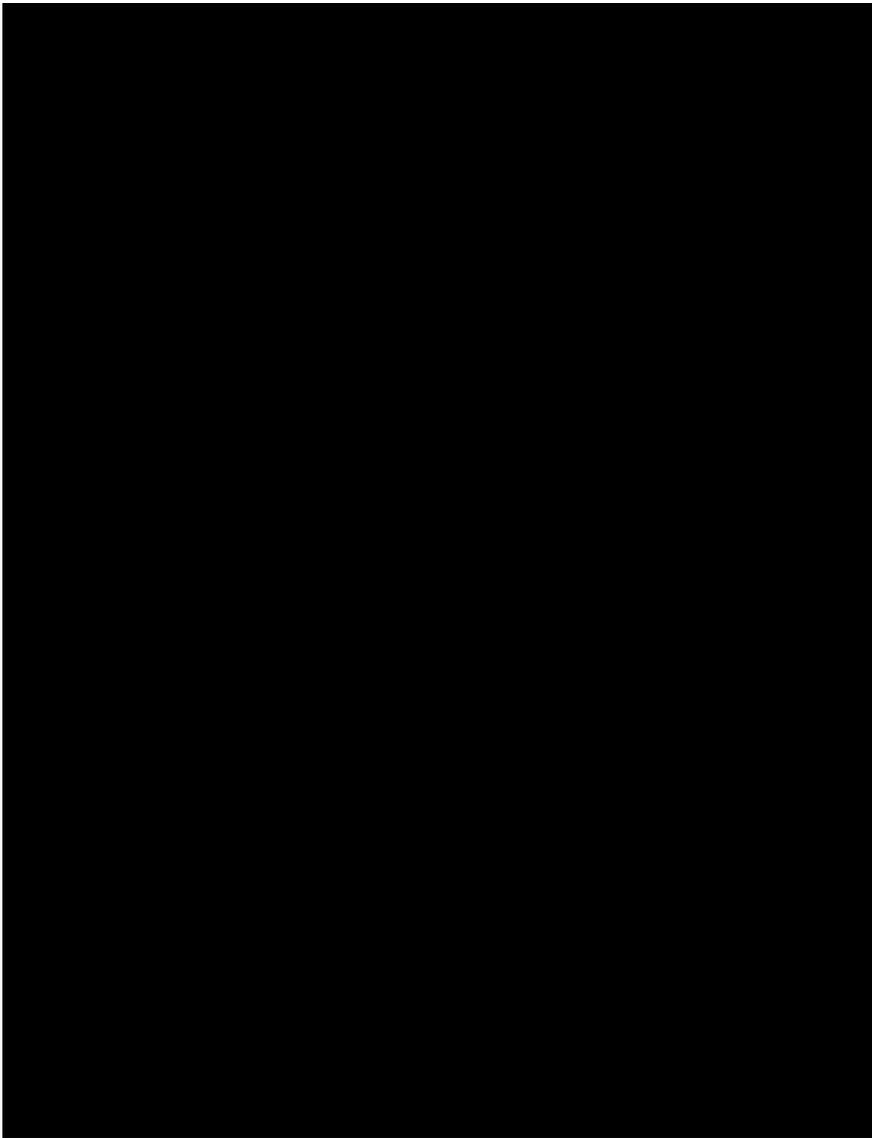
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 91 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 92 of 137

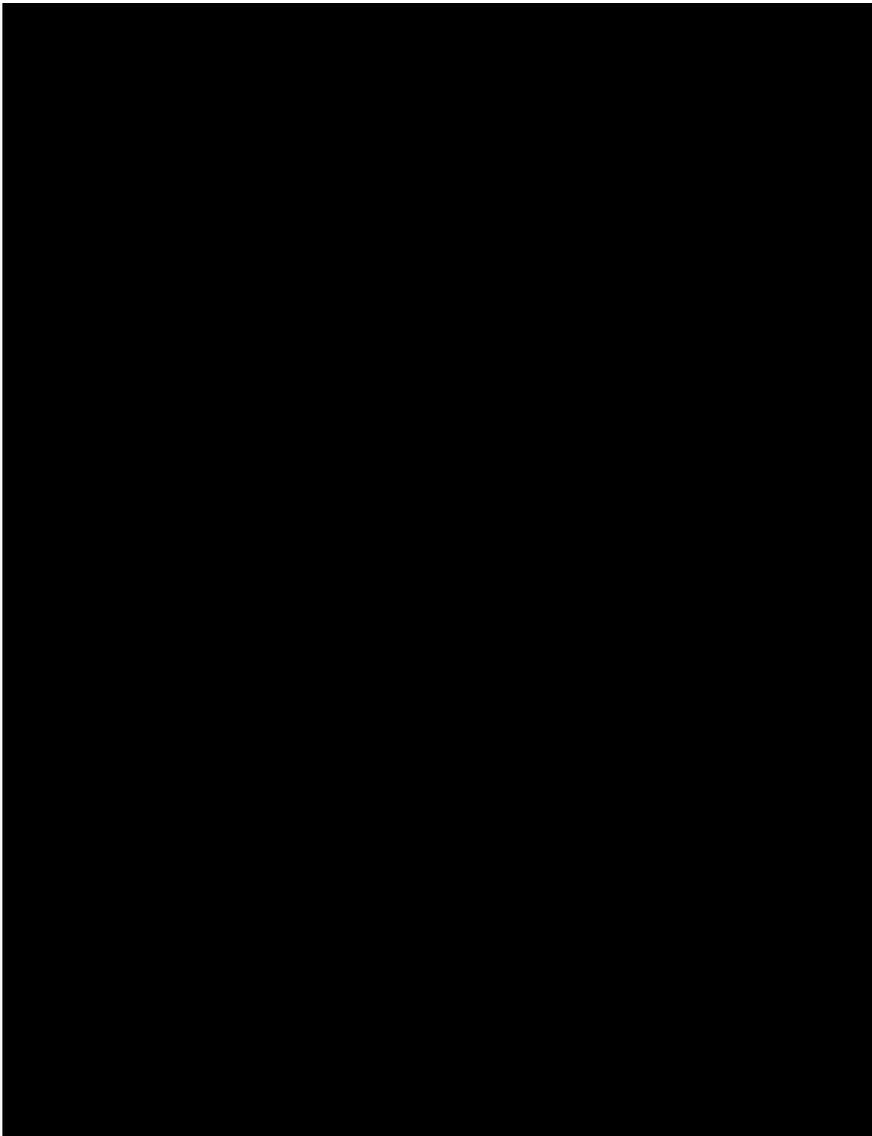
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 92 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 93 of 137

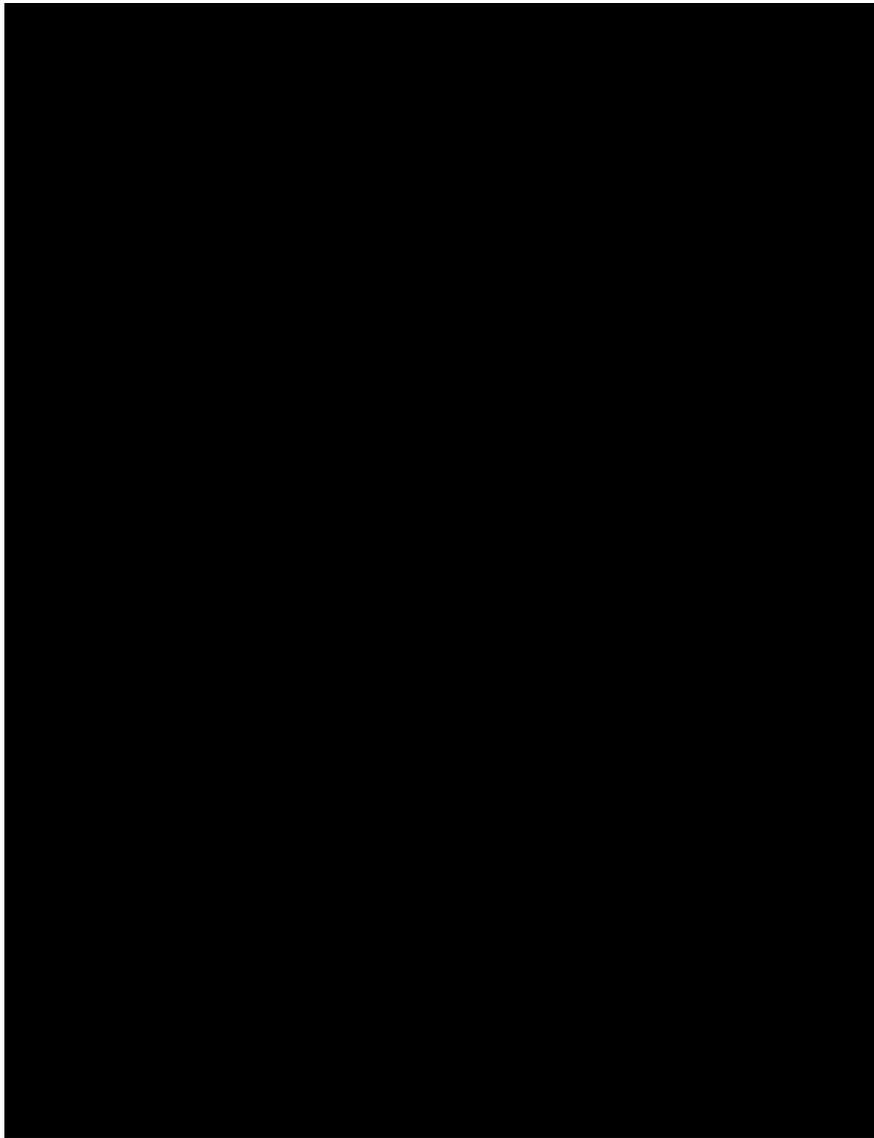
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 93 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 94 of 137

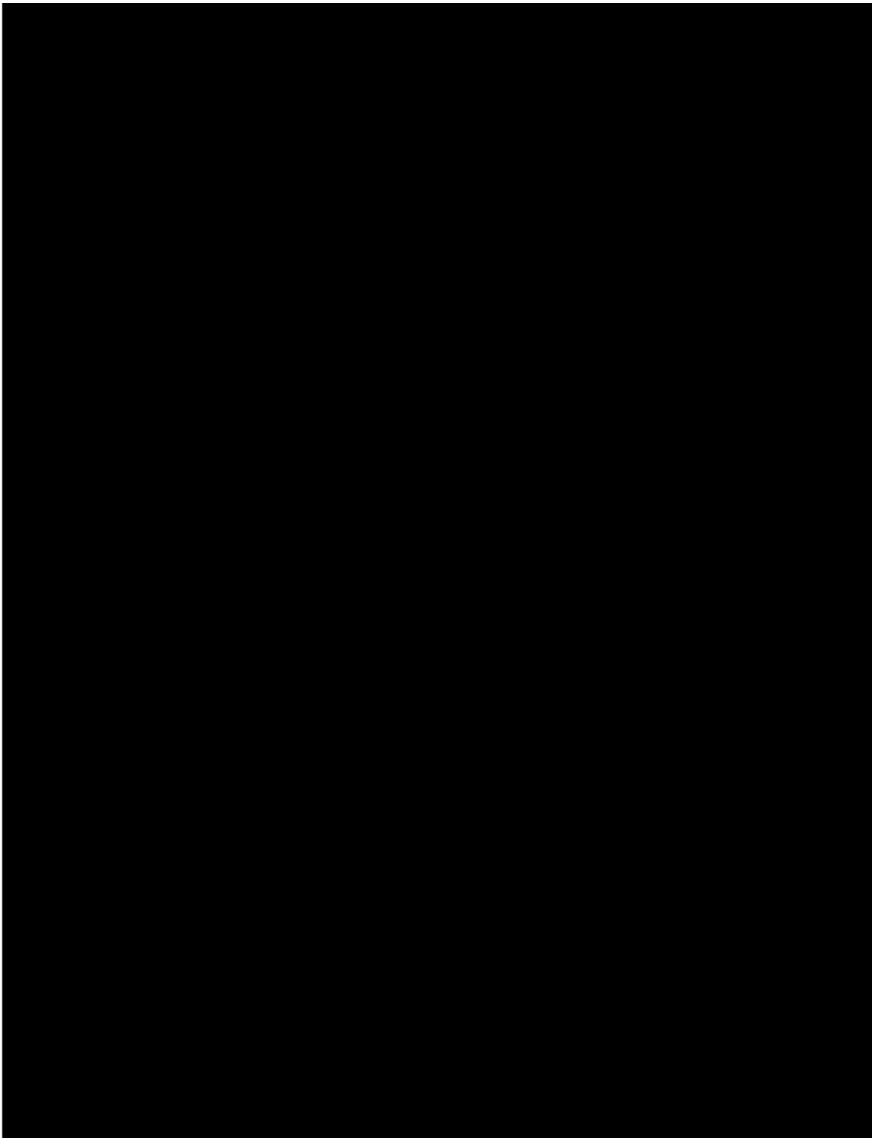
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 94 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 95 of 137

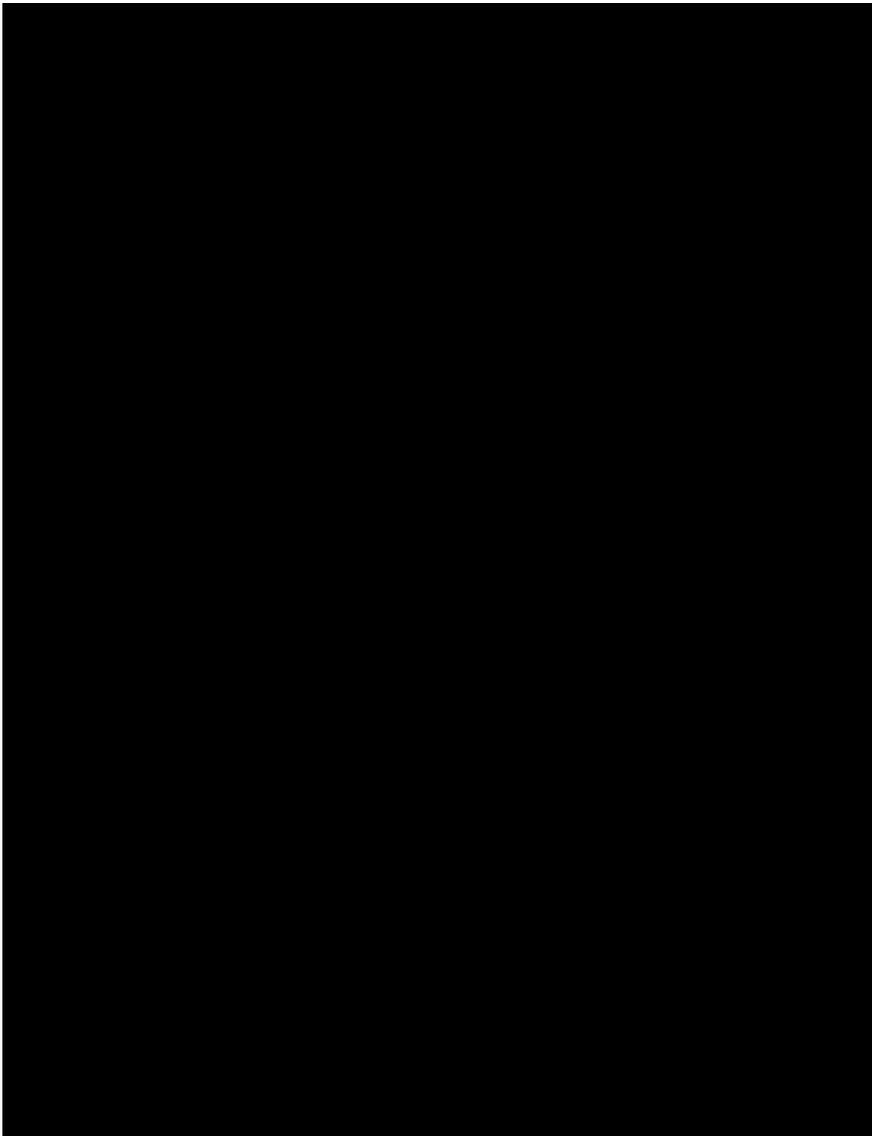
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 95 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 96 of 137

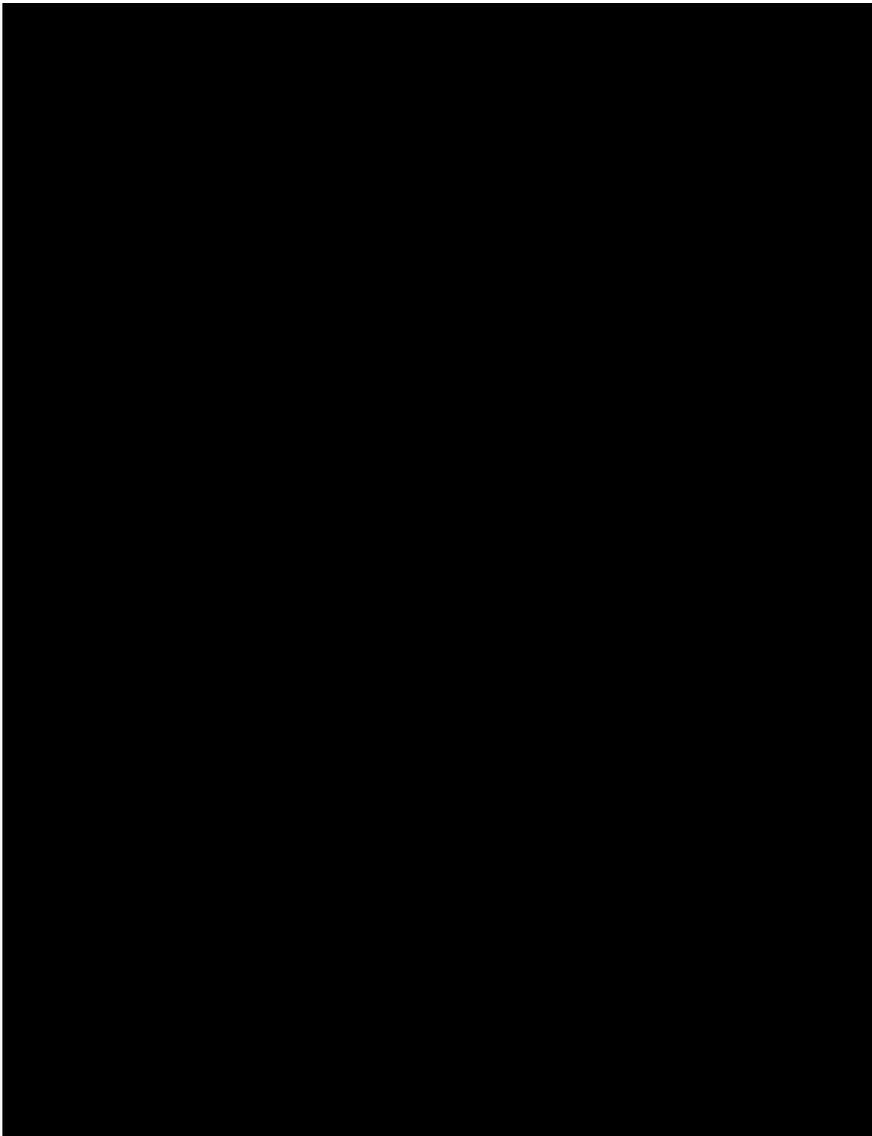
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 96 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 97 of 137

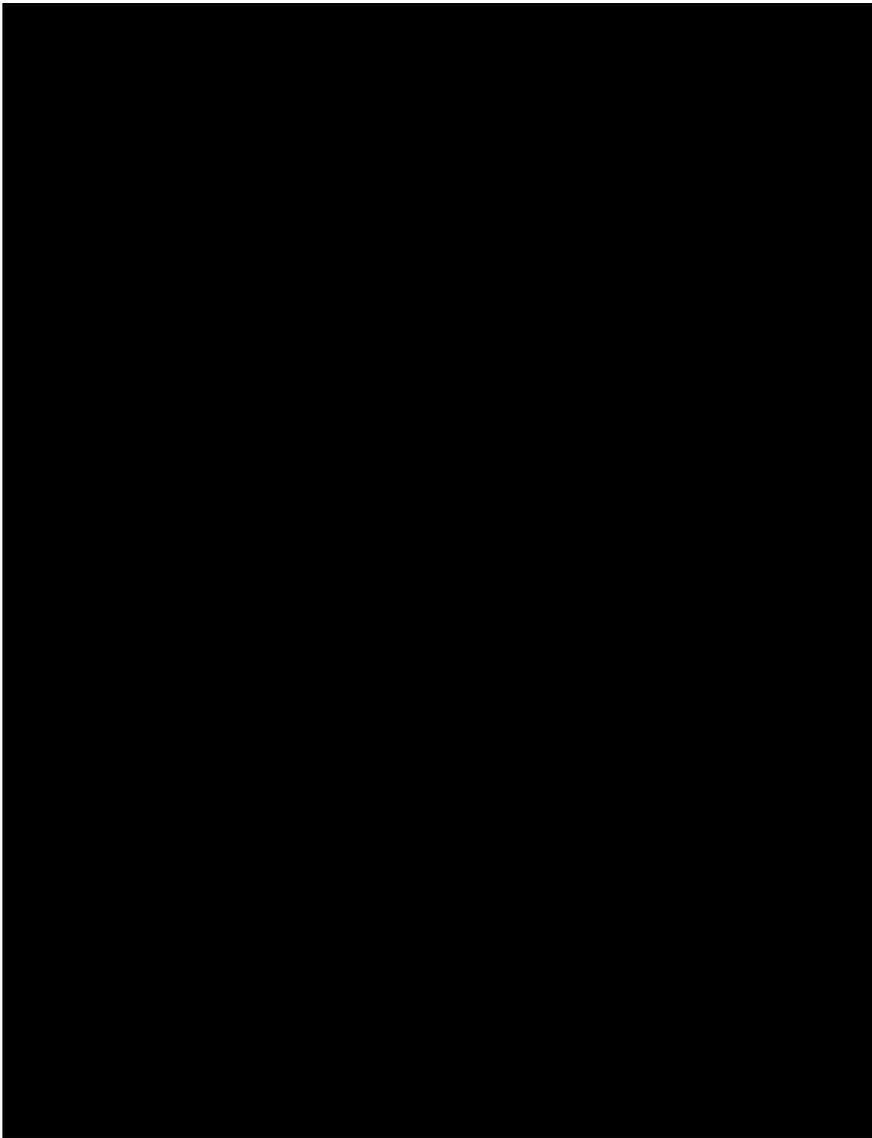
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 97 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 98 of 137

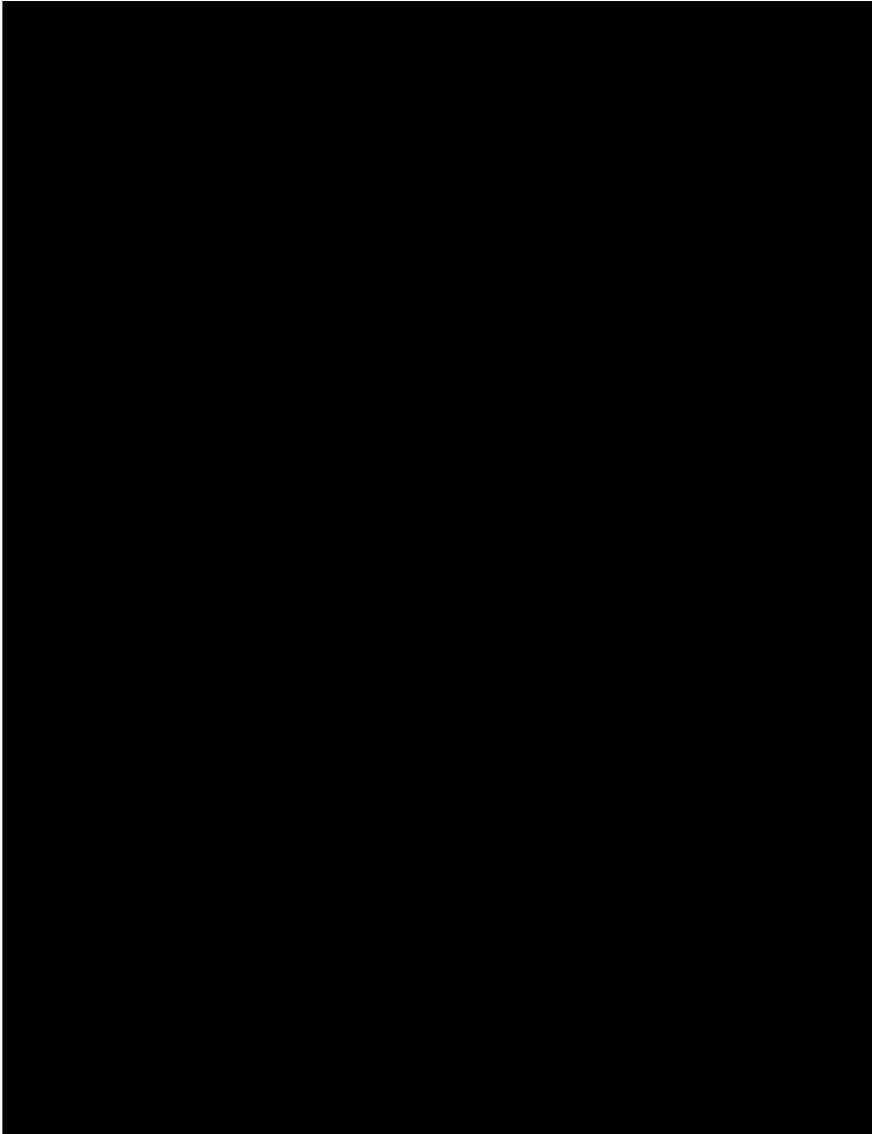
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 98 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 99 of 137

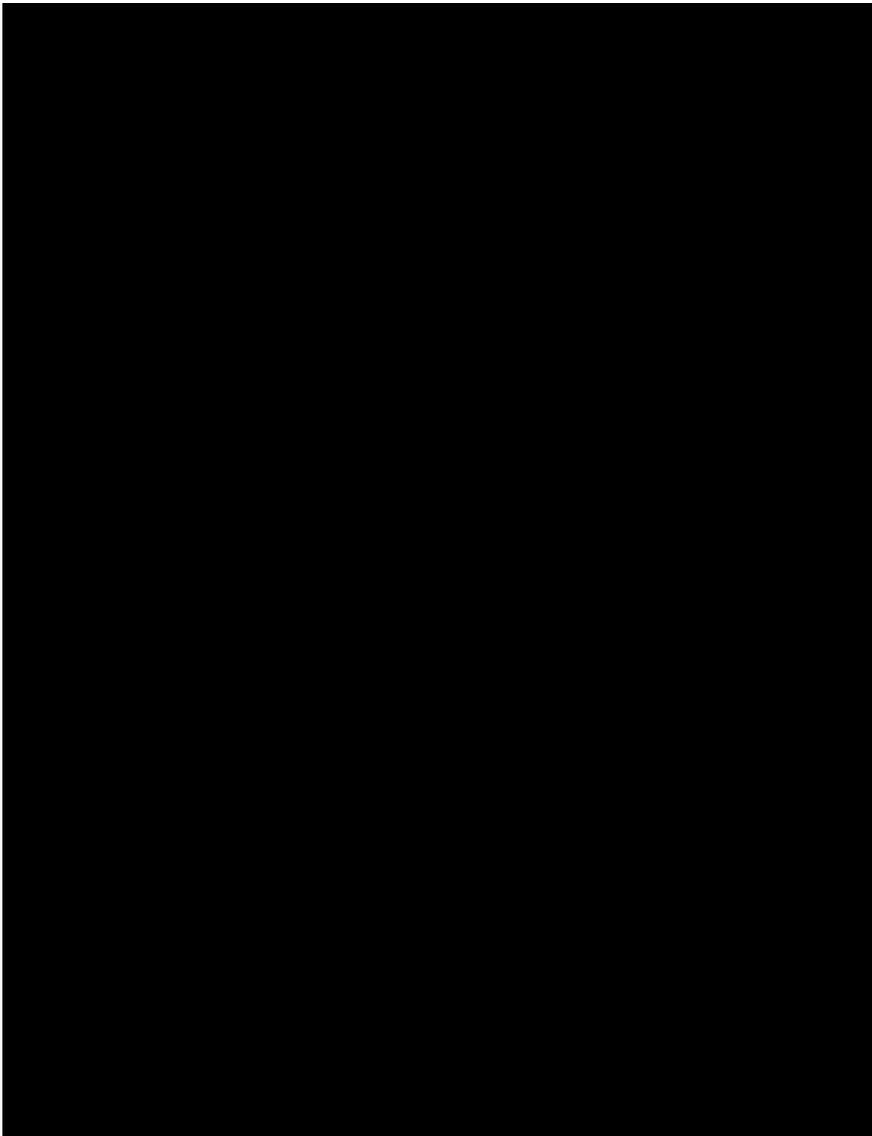
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 99 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 100 of 137

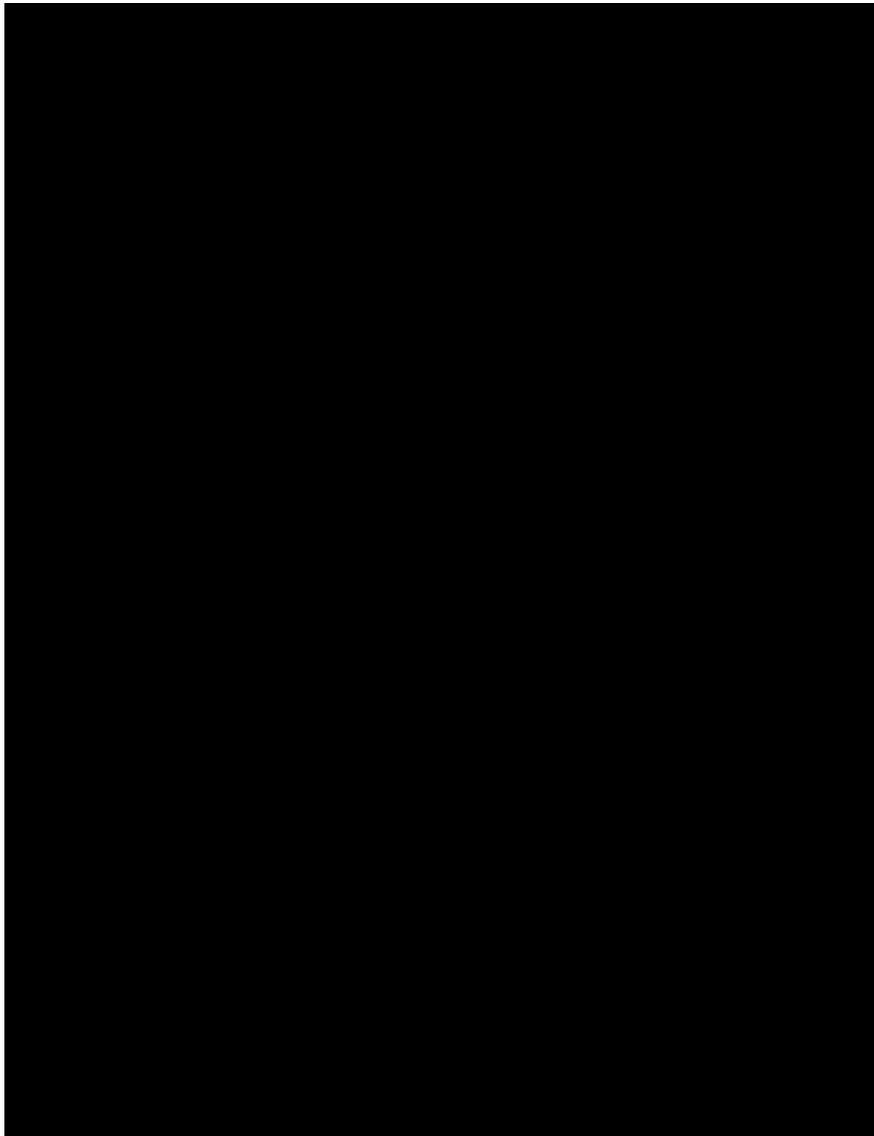
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 100 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 101 of 137

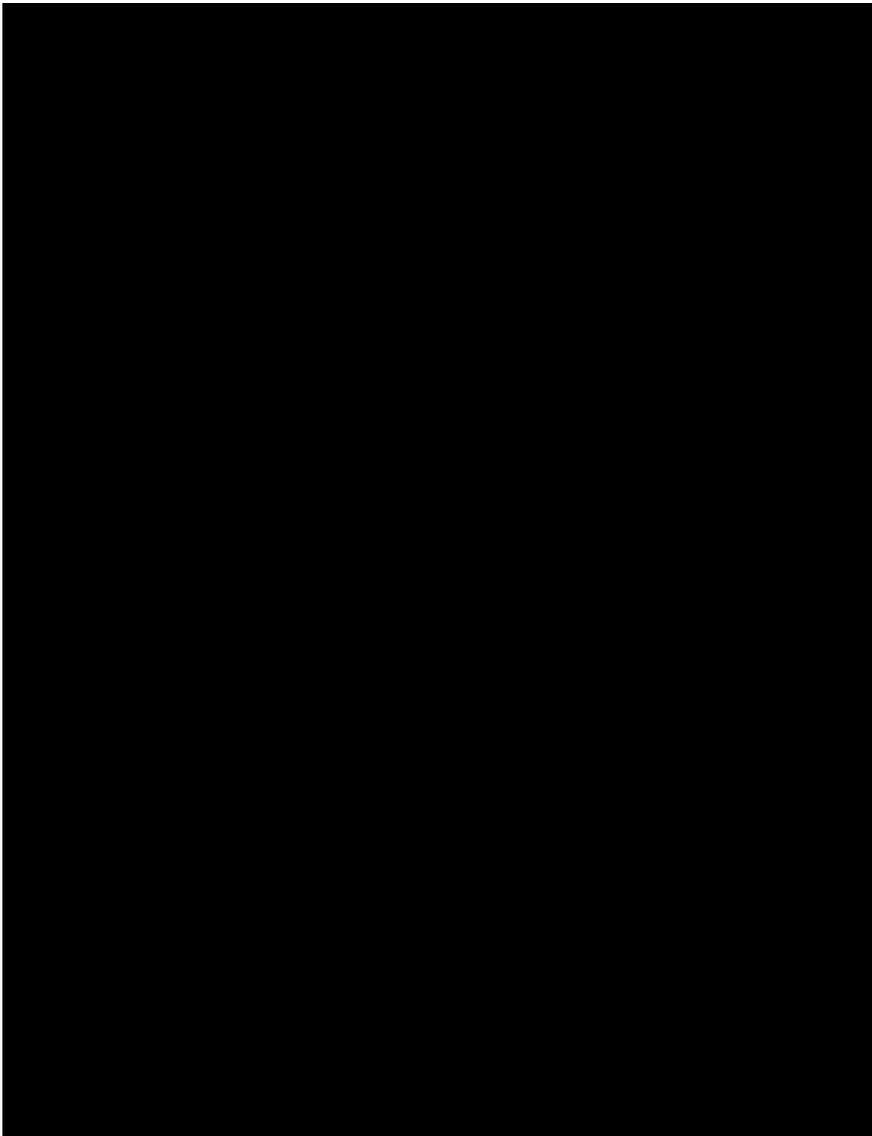
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 101 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 102 of 137

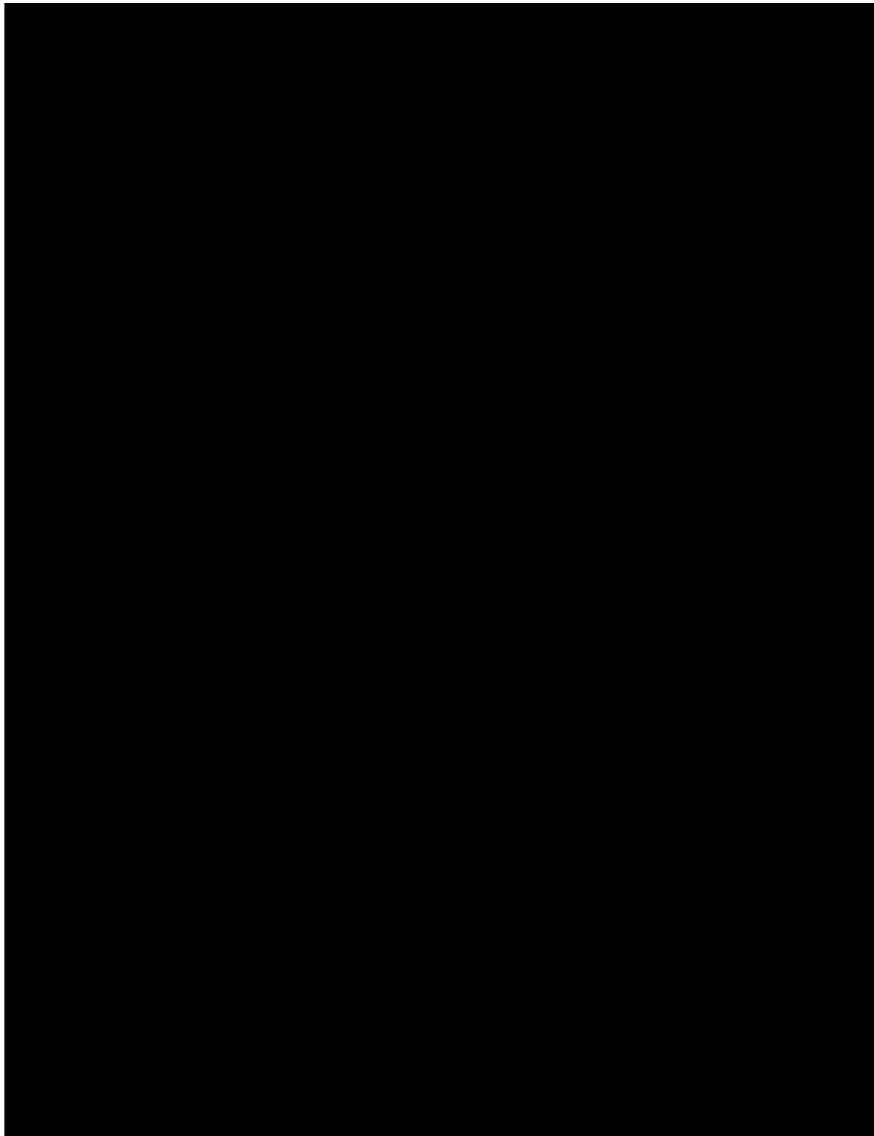
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 102 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 103 of 137

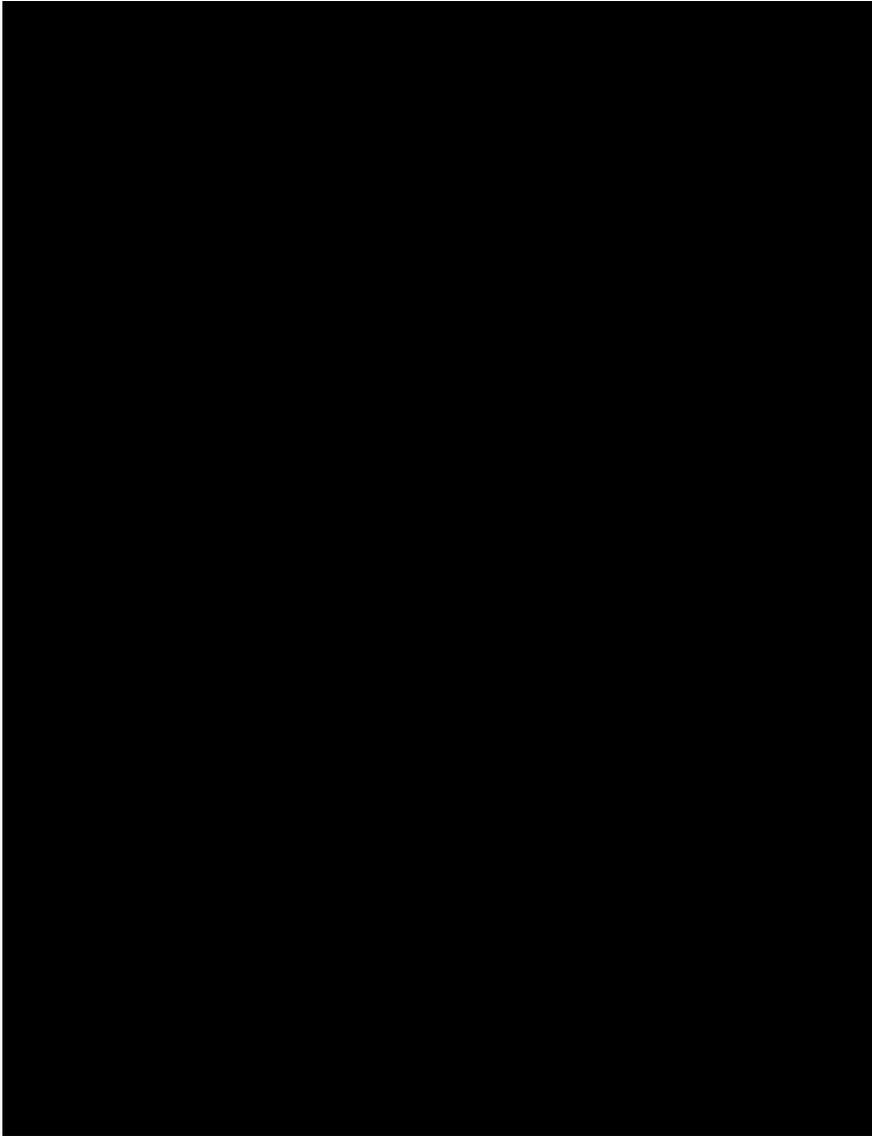
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 103 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 104 of 137

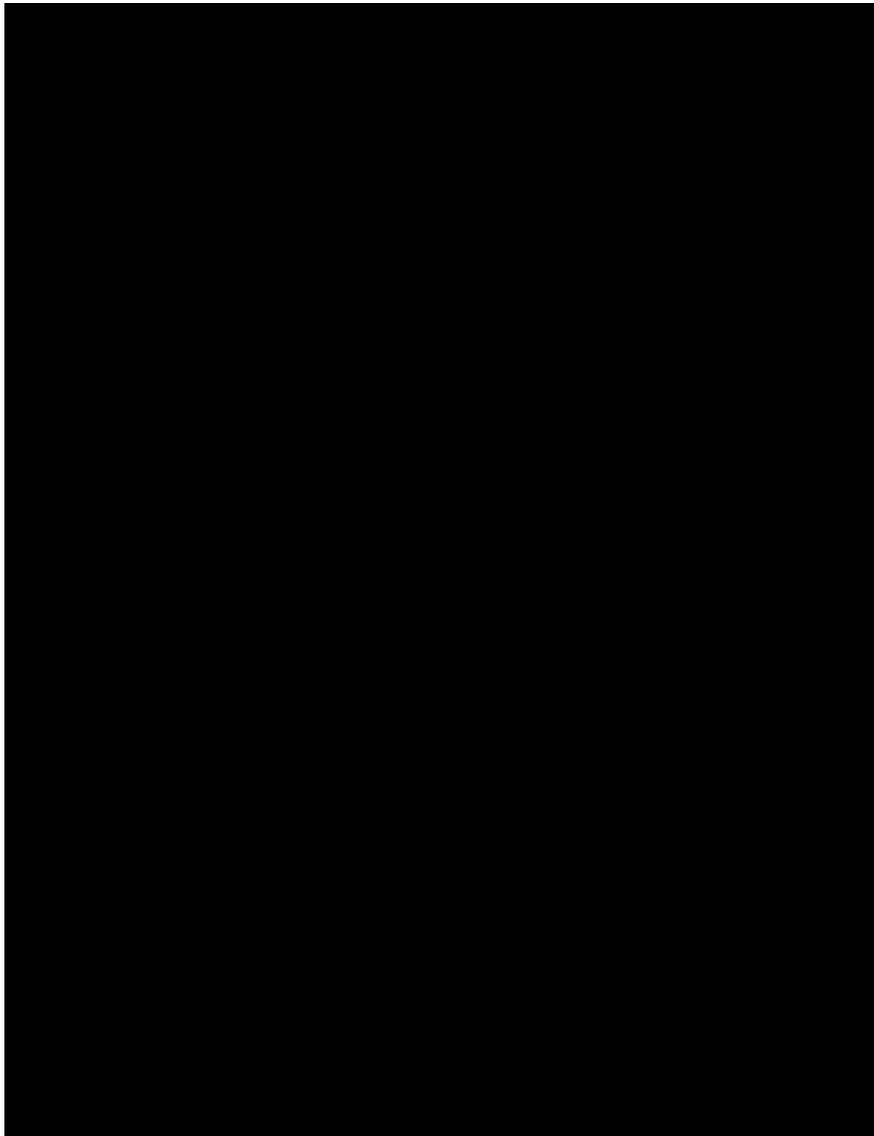
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 104 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 105 of 137

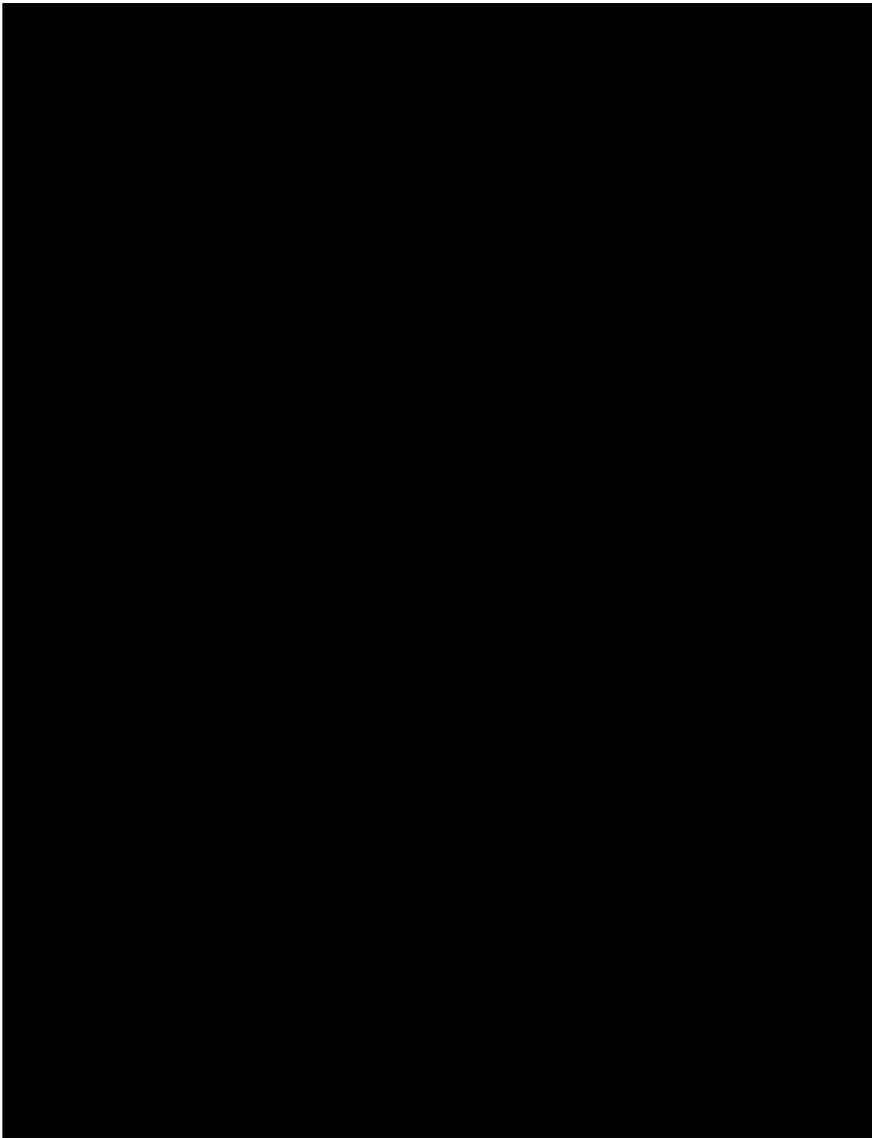
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 105 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 106 of 137

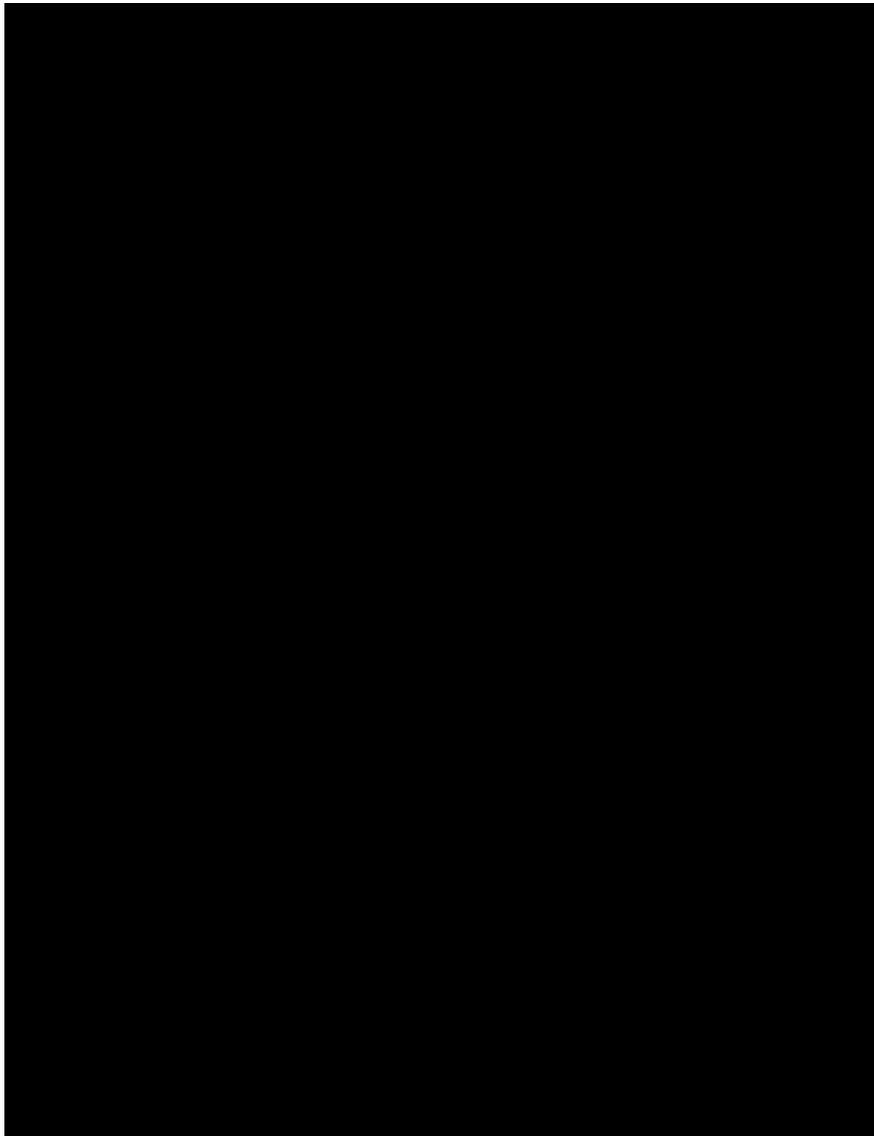
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 106 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 107 of 137

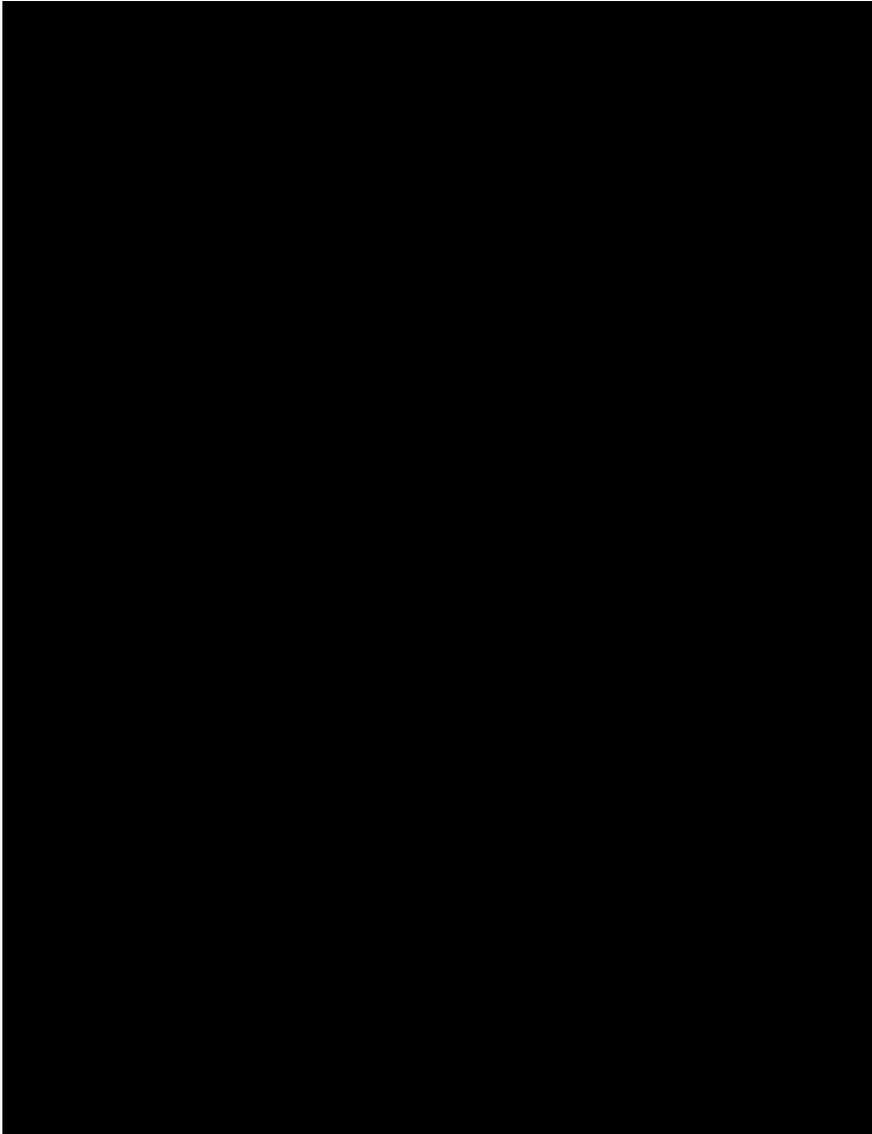
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 107 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 108 of 137

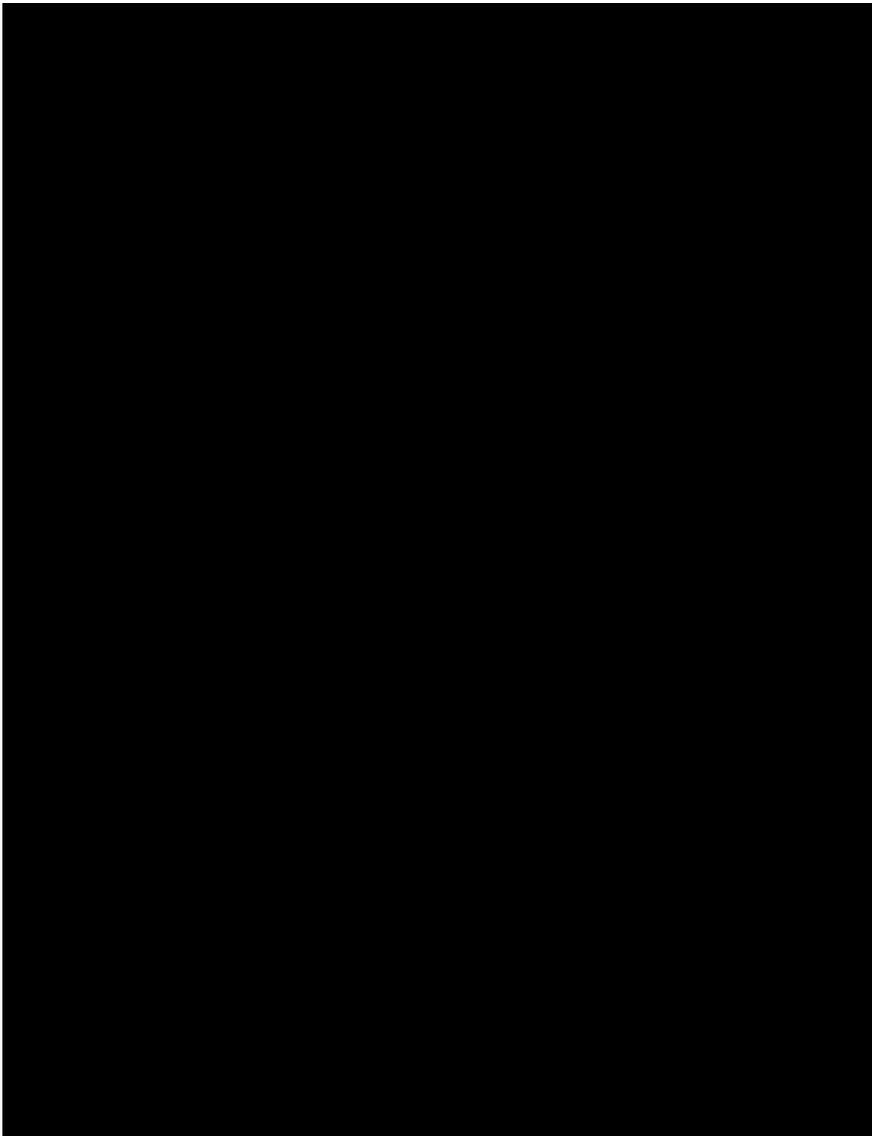
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 108 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 109 of 137

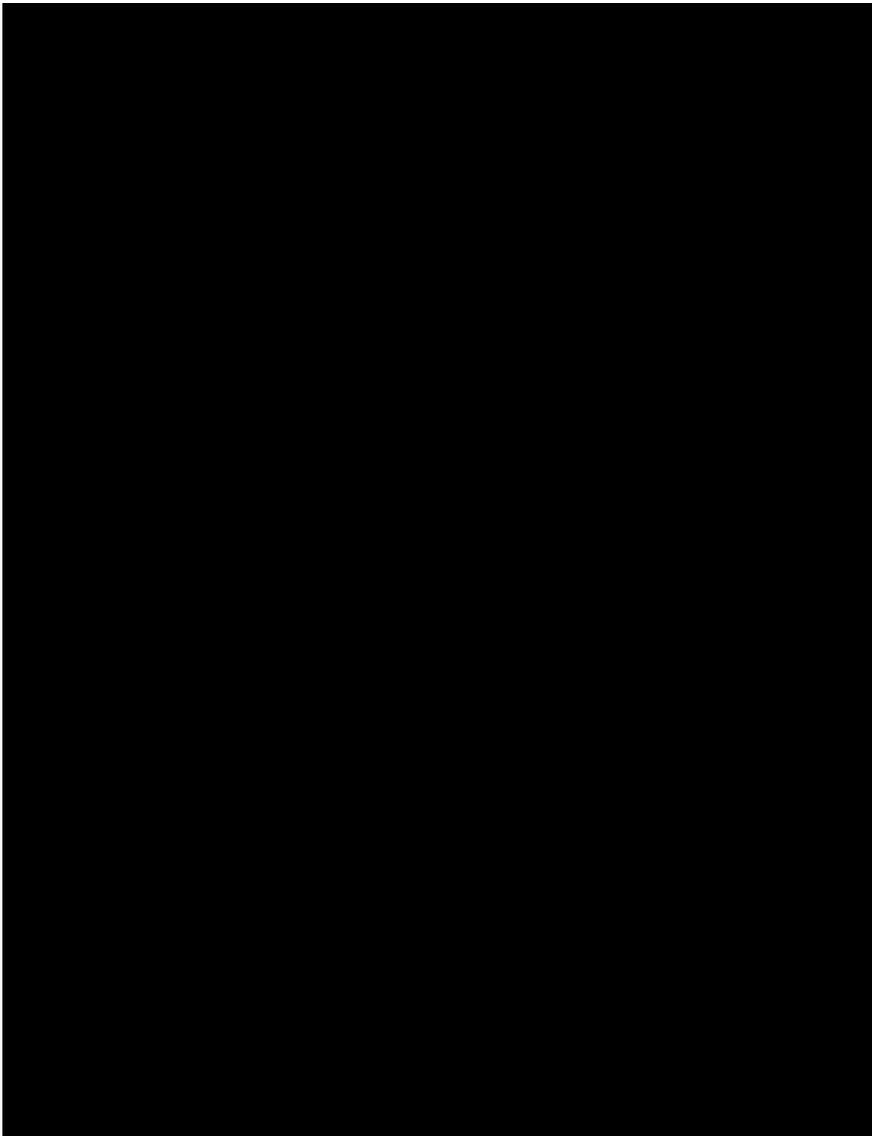
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 109 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 110 of 137

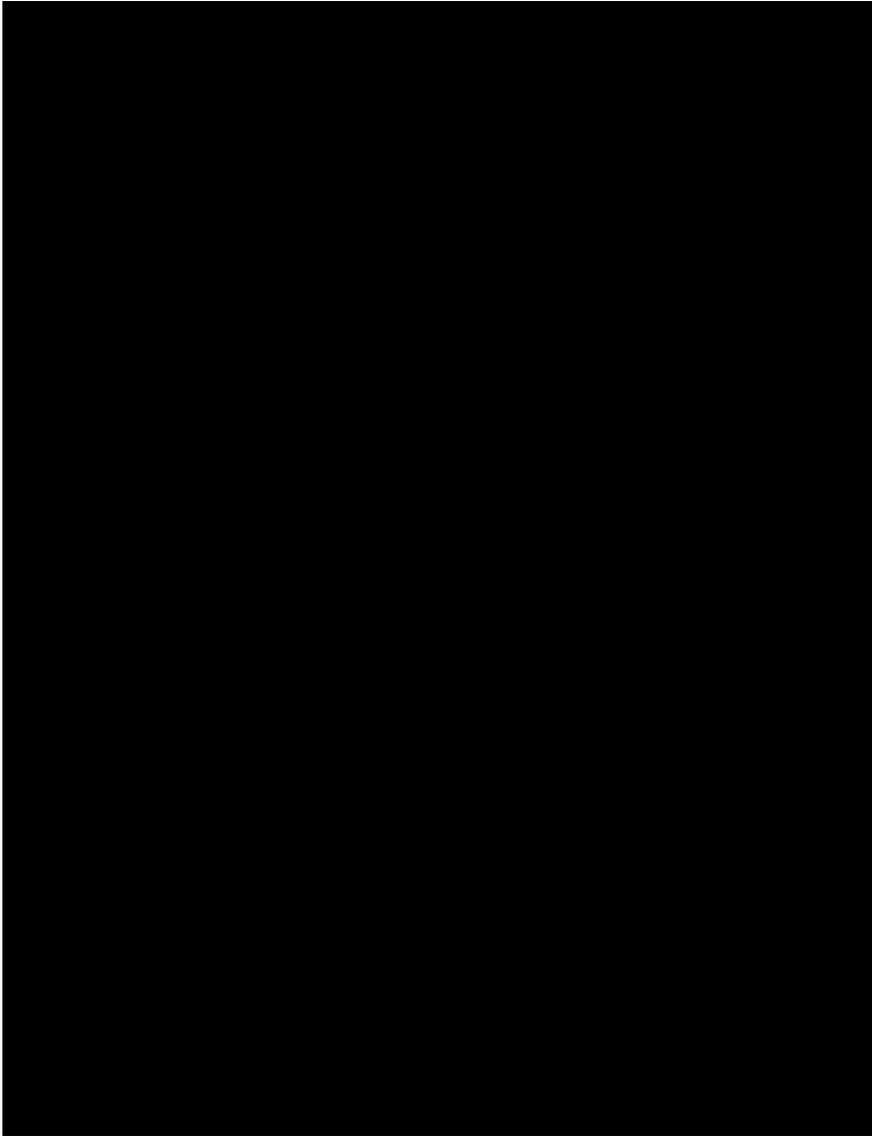
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 110 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 111 of 137

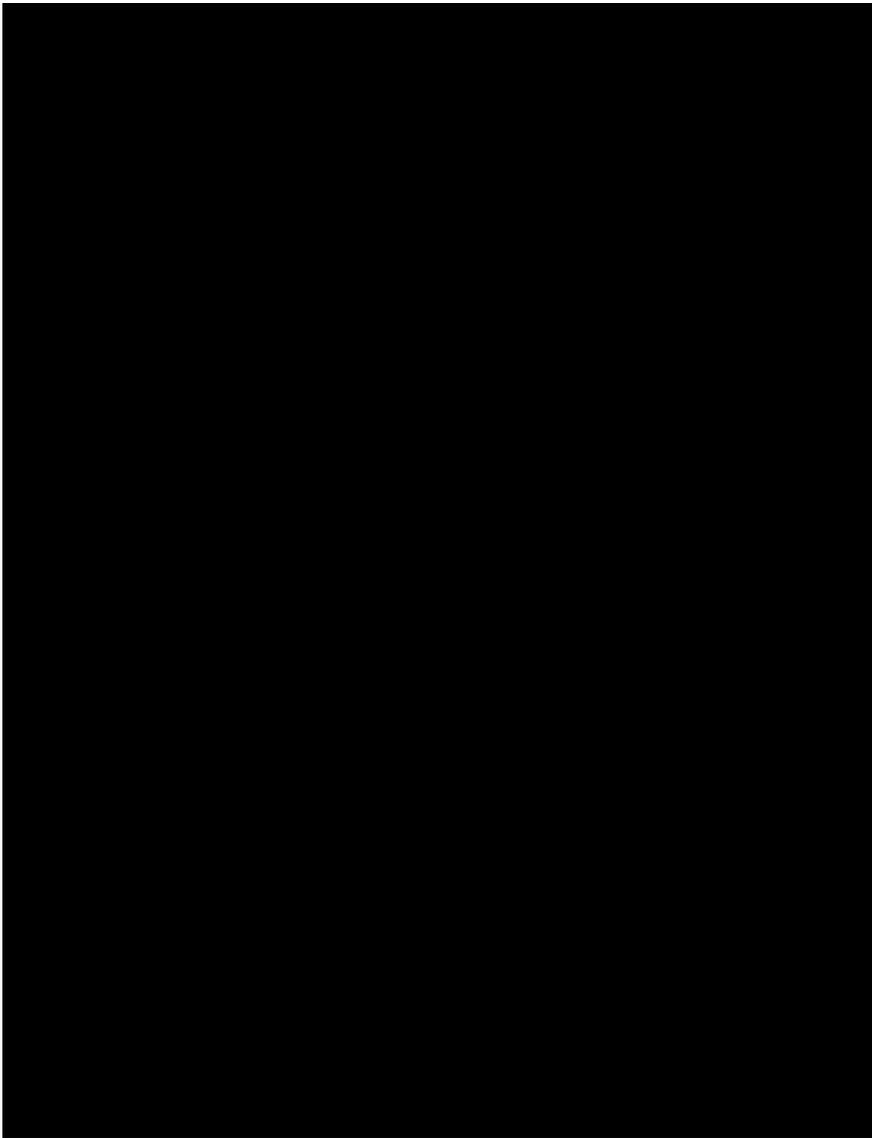
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 111 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 112 of 137

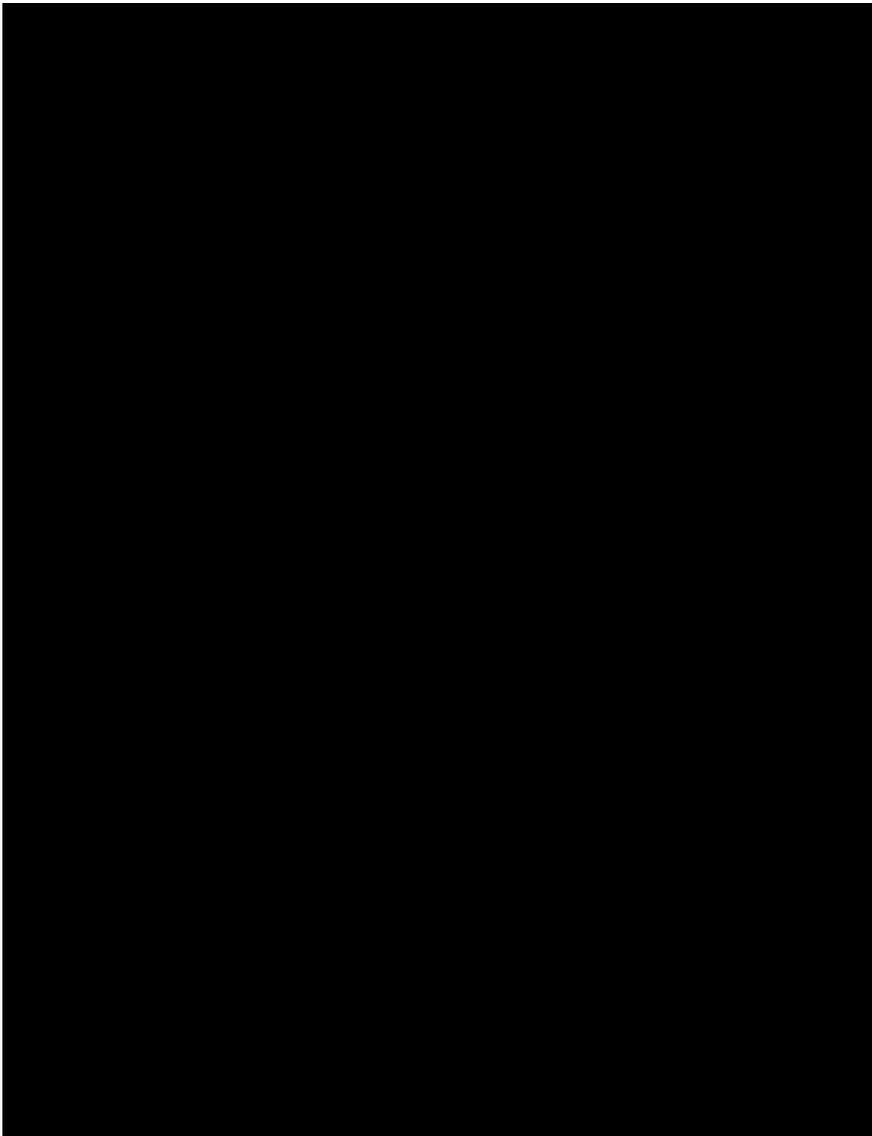
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 112 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 113 of 137

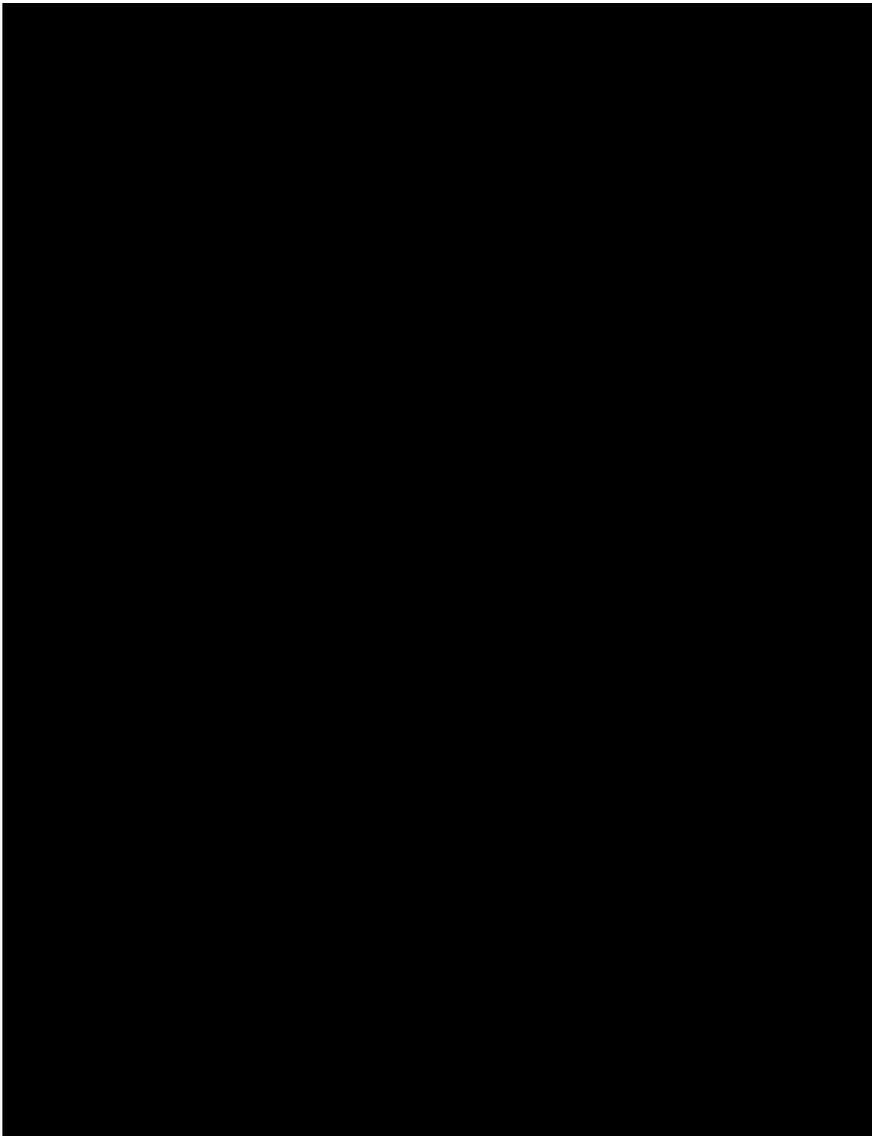
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 113 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 114 of 137

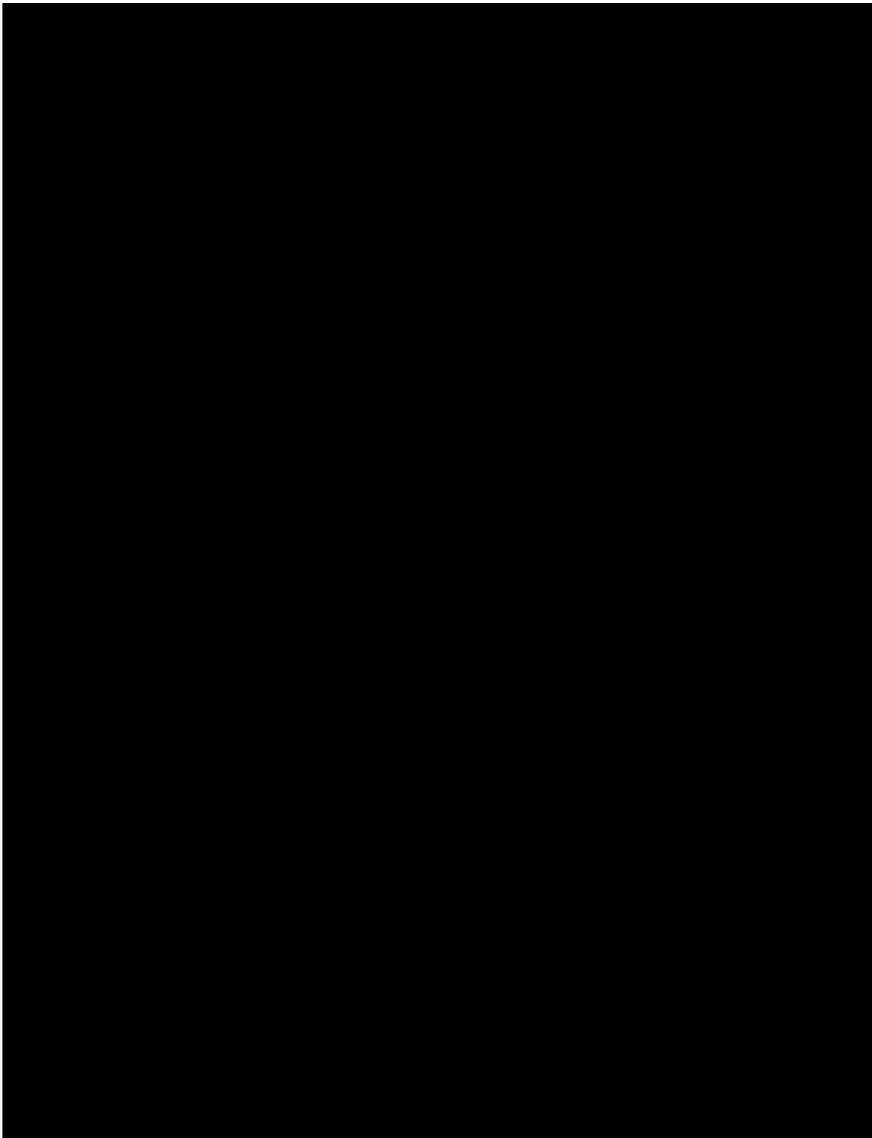
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 114 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 115 of 137

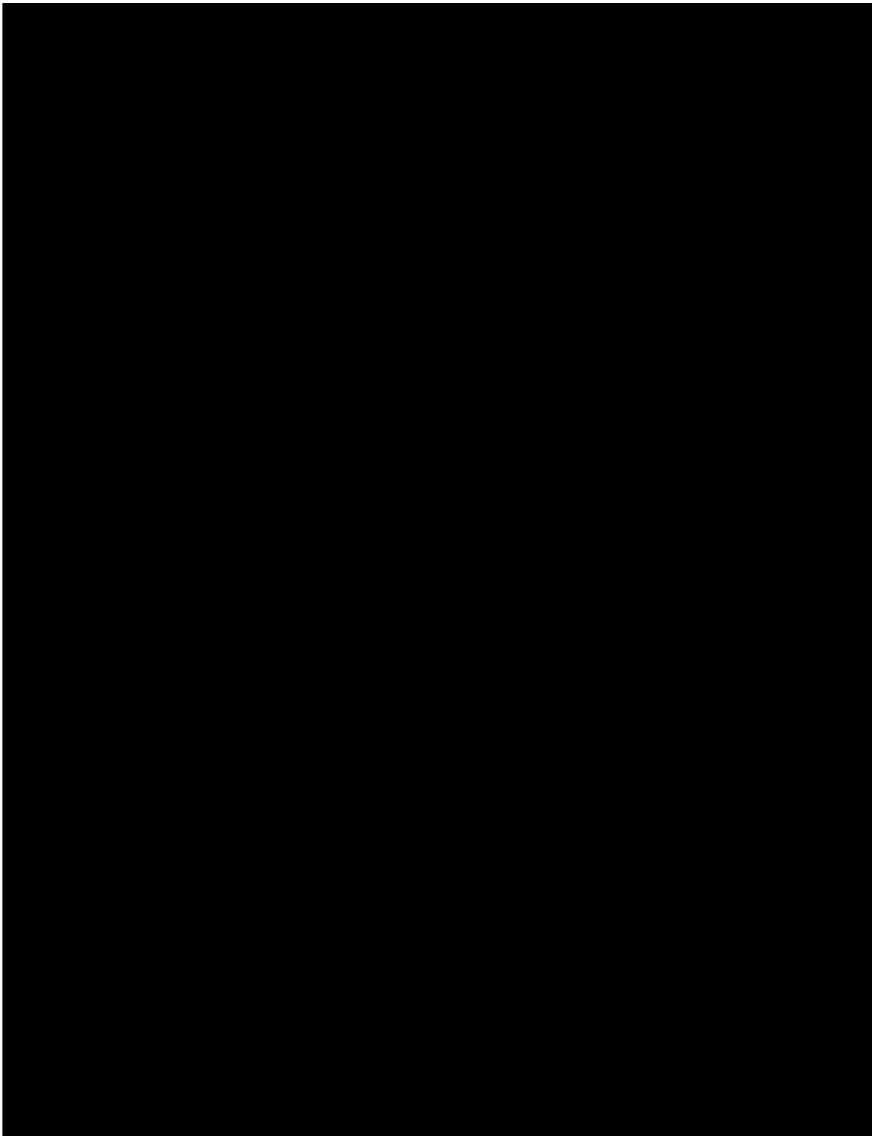
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 115 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 116 of 137

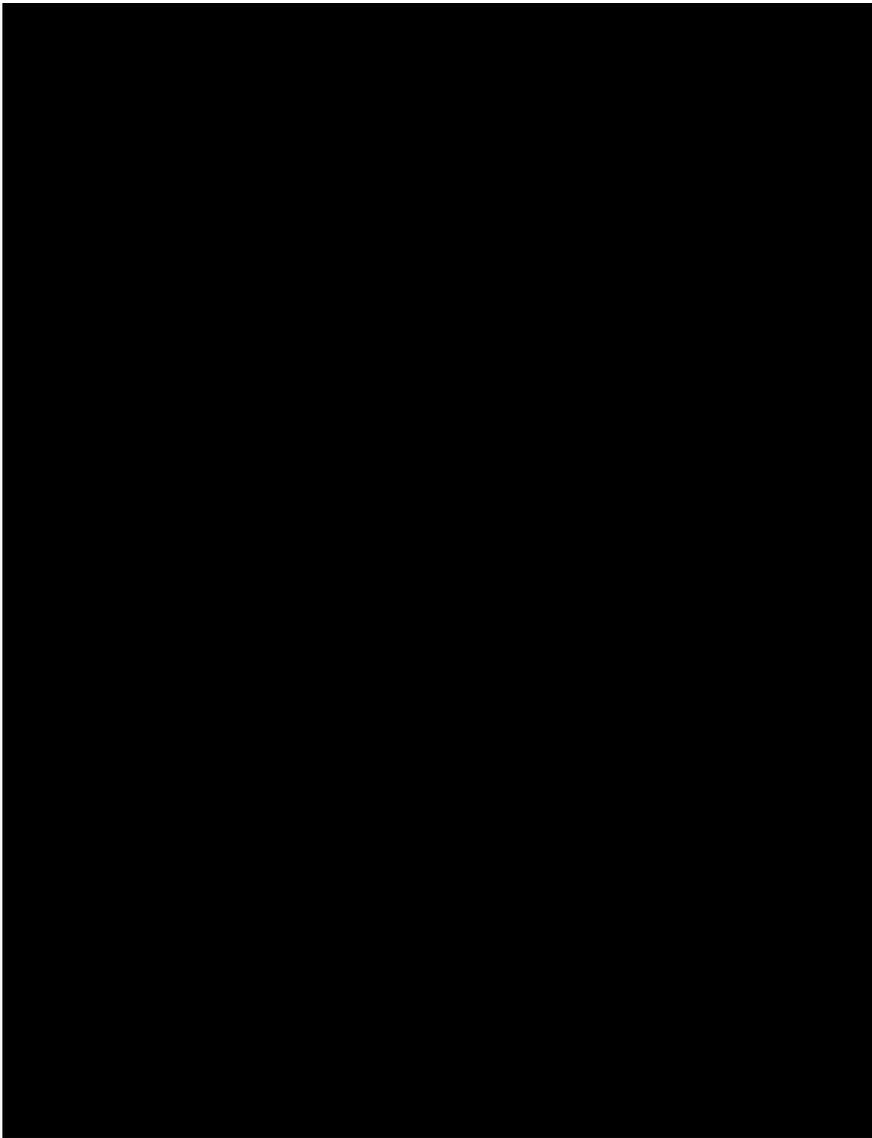
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 116 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 117 of 137

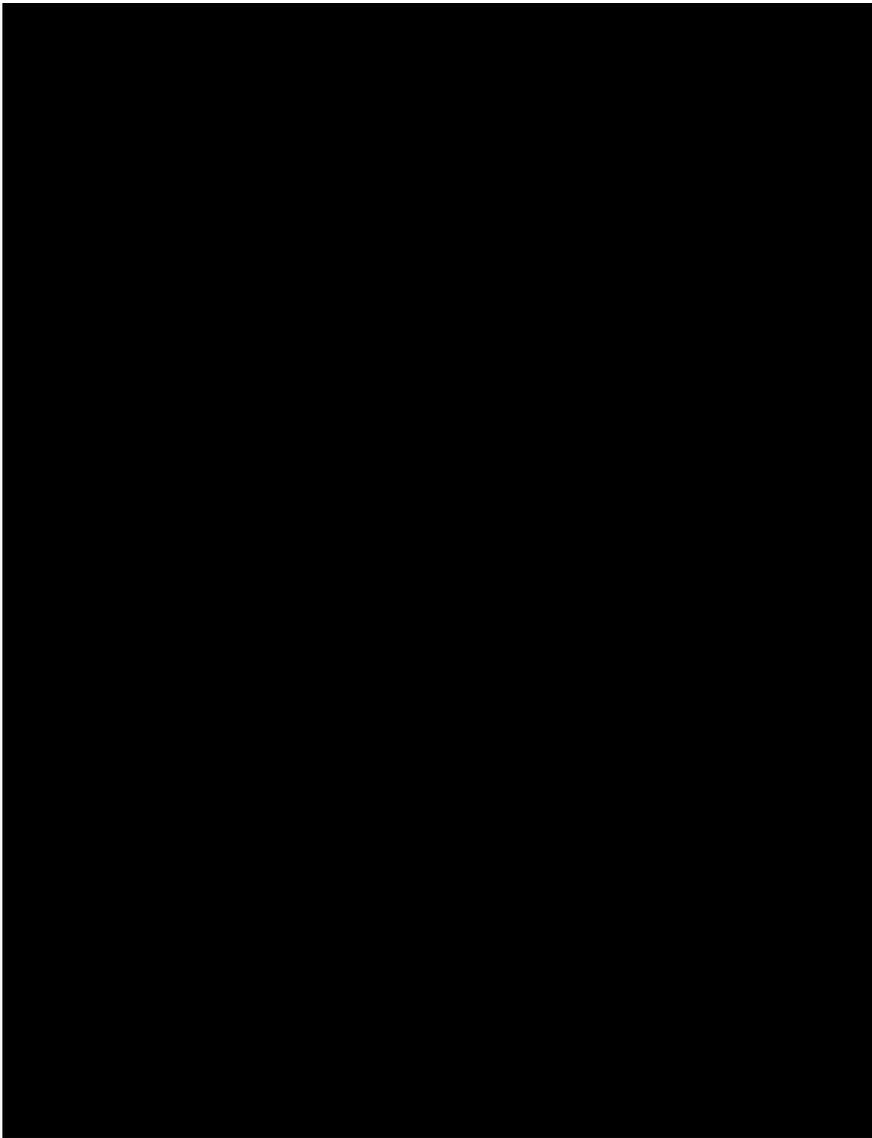
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 117 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 118 of 137

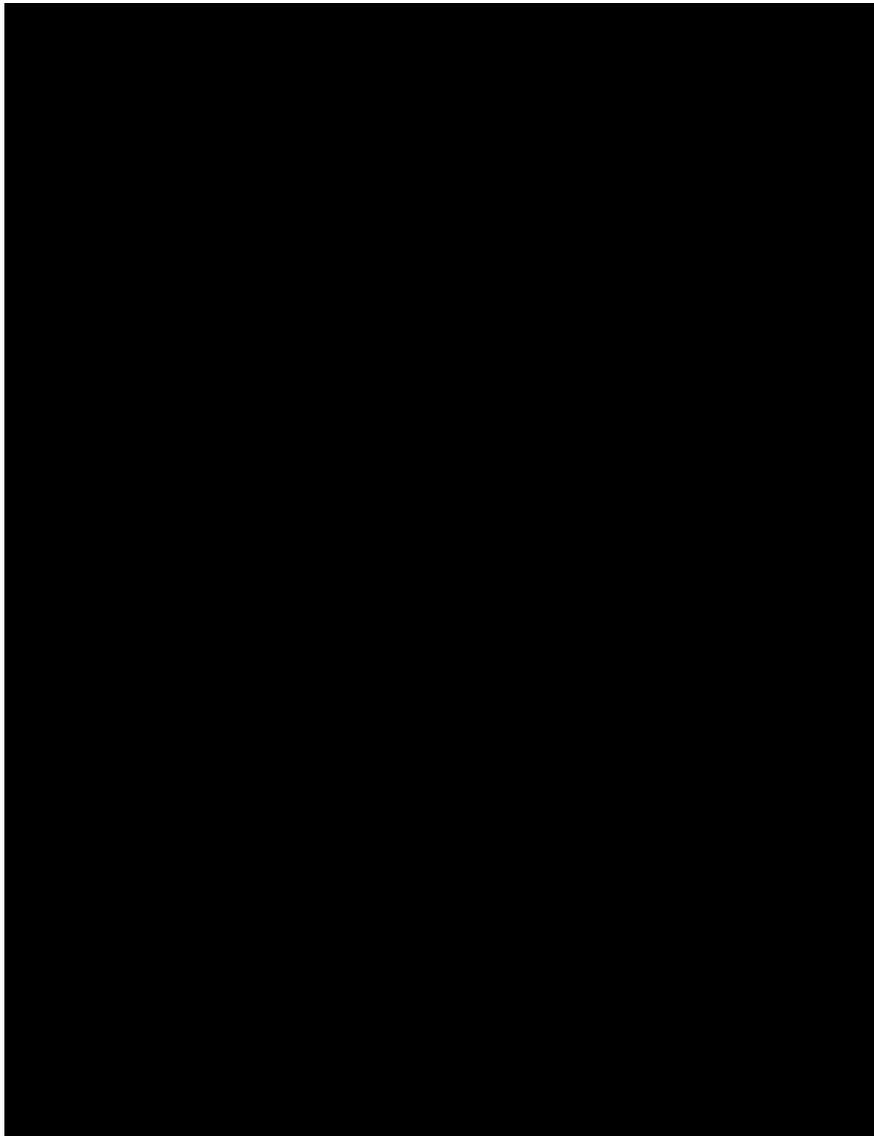
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 118 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 119 of 137

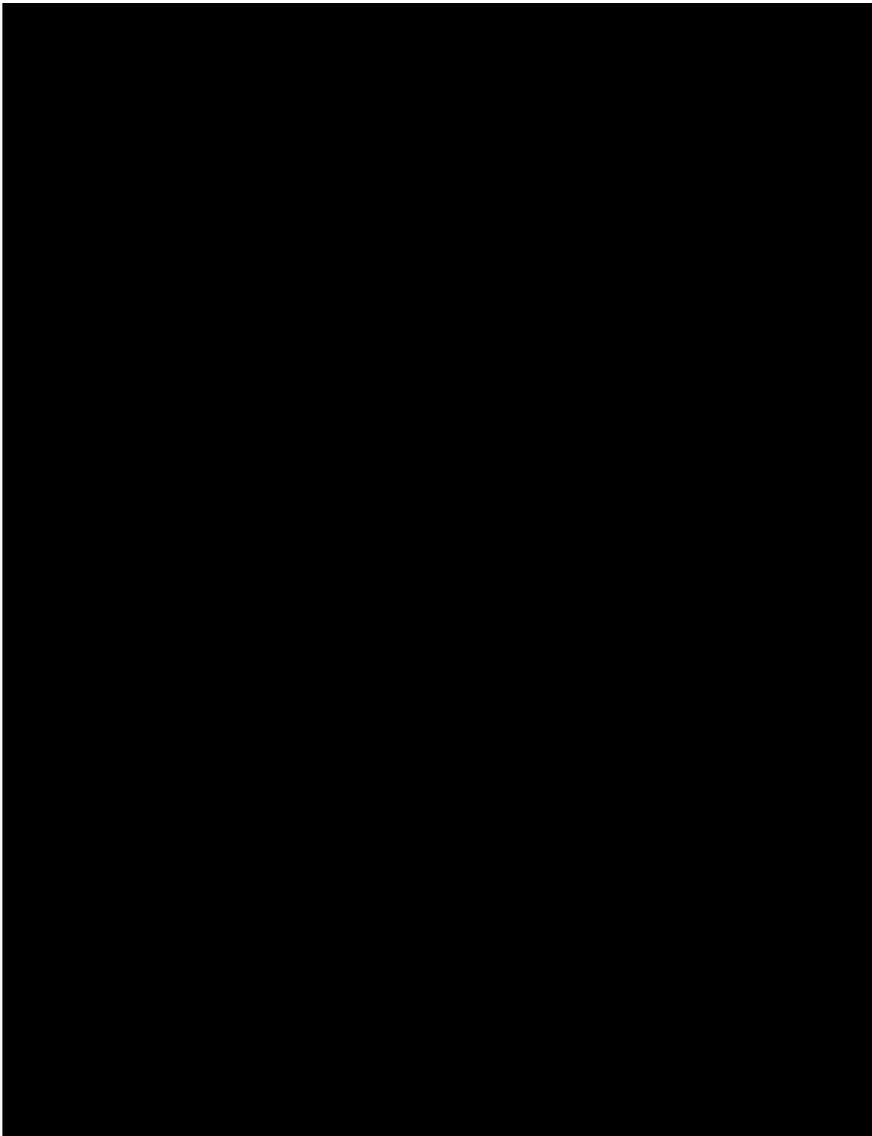
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 119 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 120 of 137

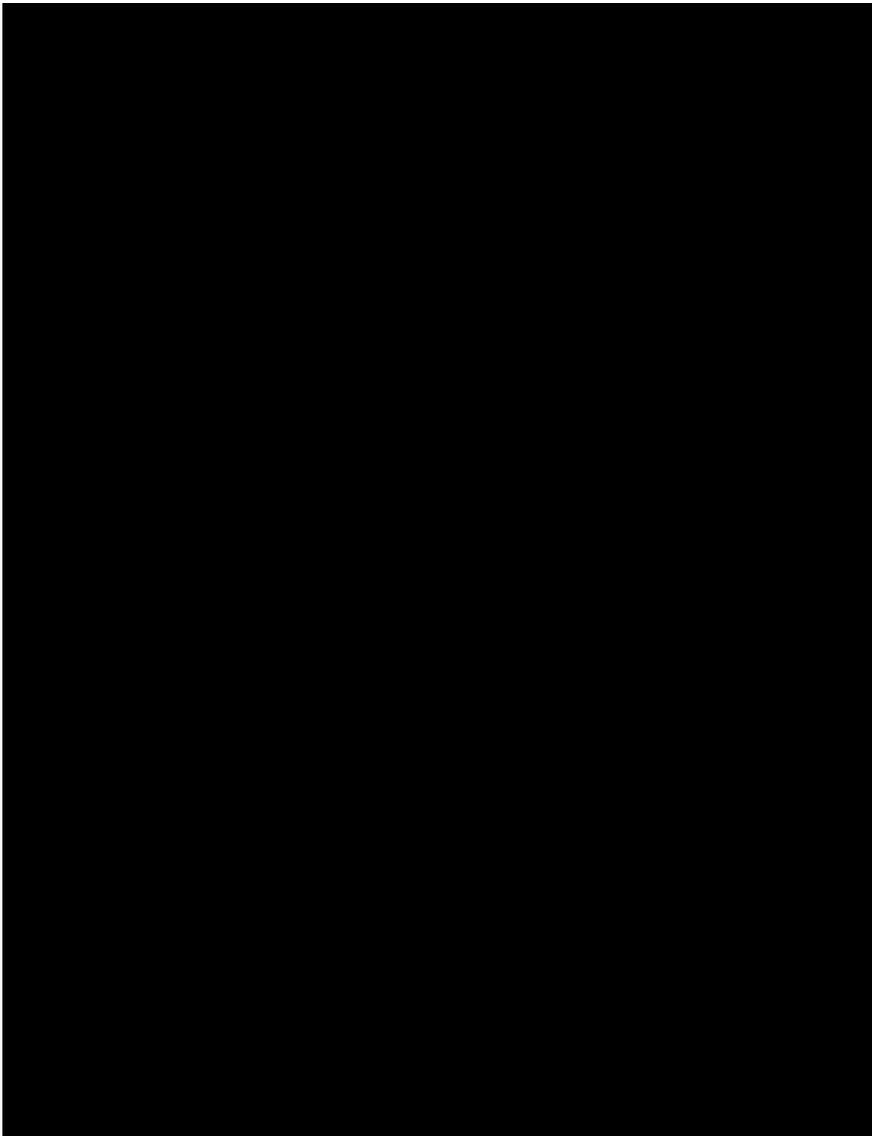
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 120 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 121 of 137

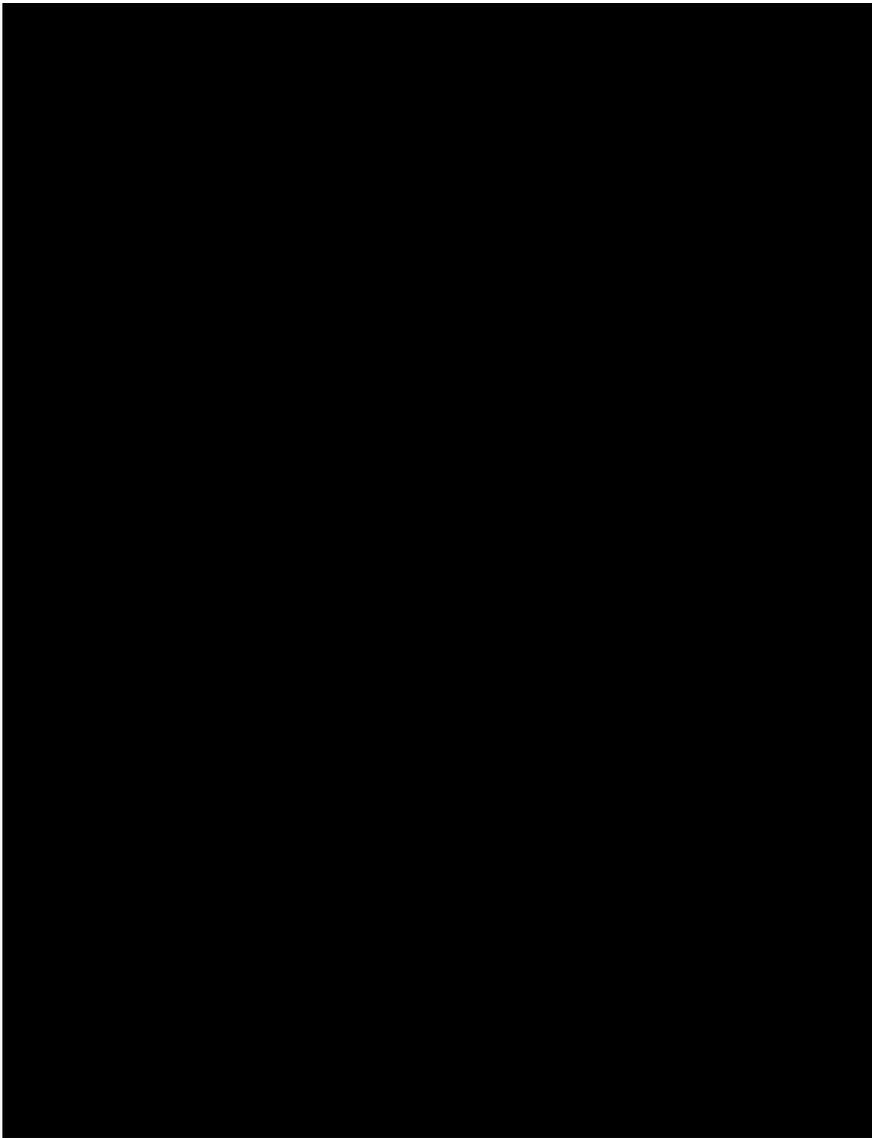
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 121 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 122 of 137

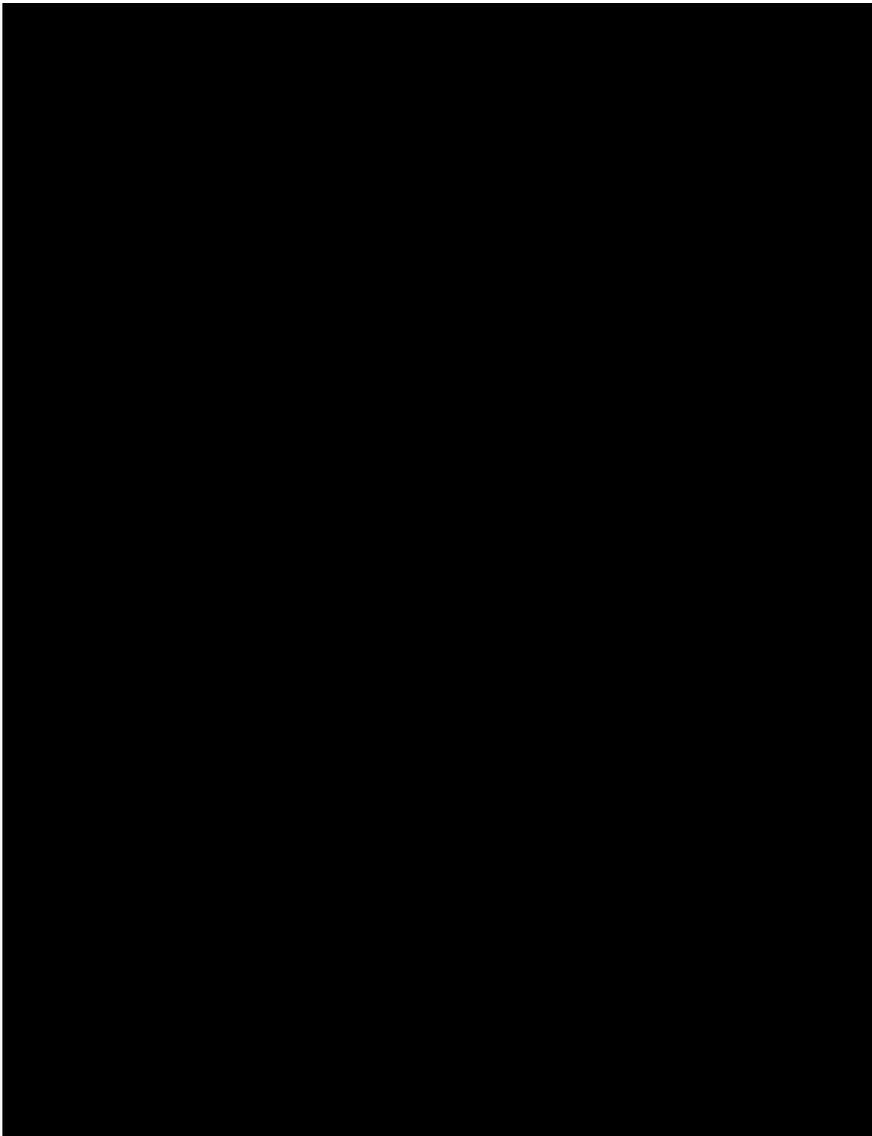
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 122 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 123 of 137

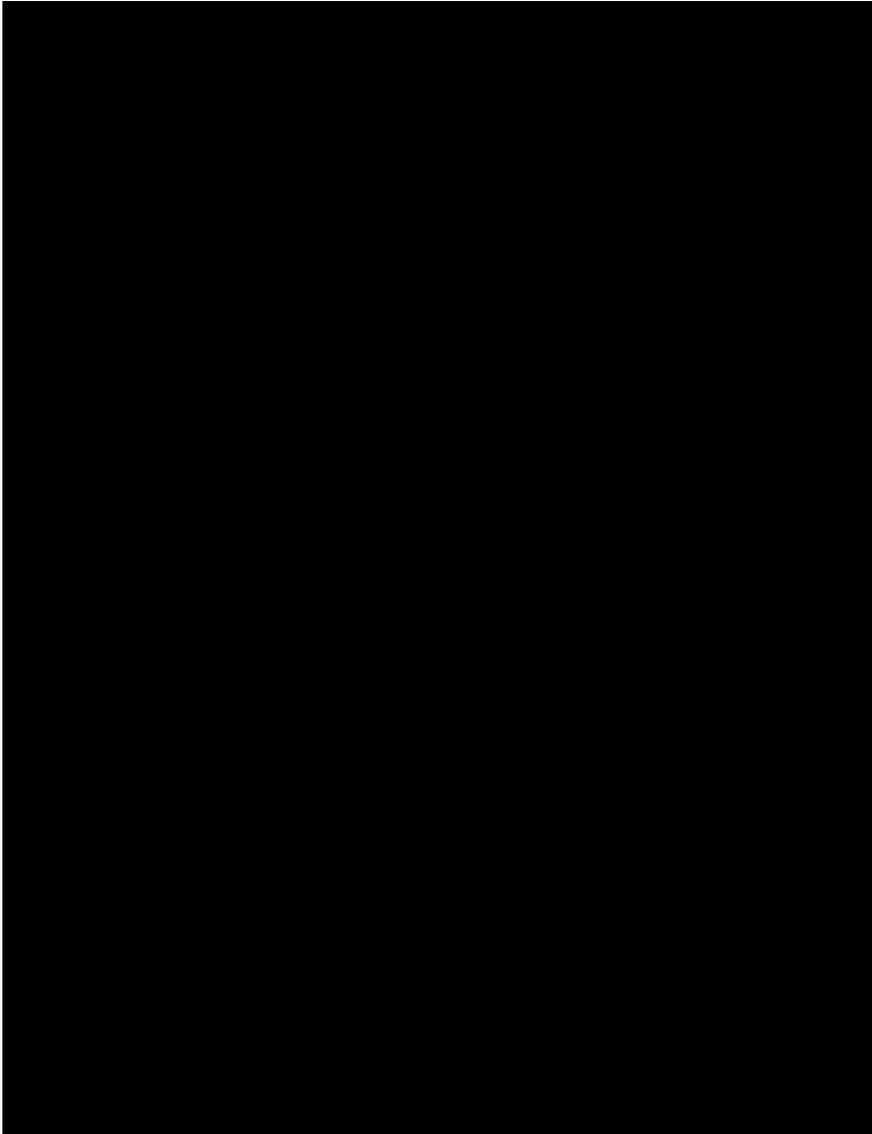
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 123 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 124 of 137

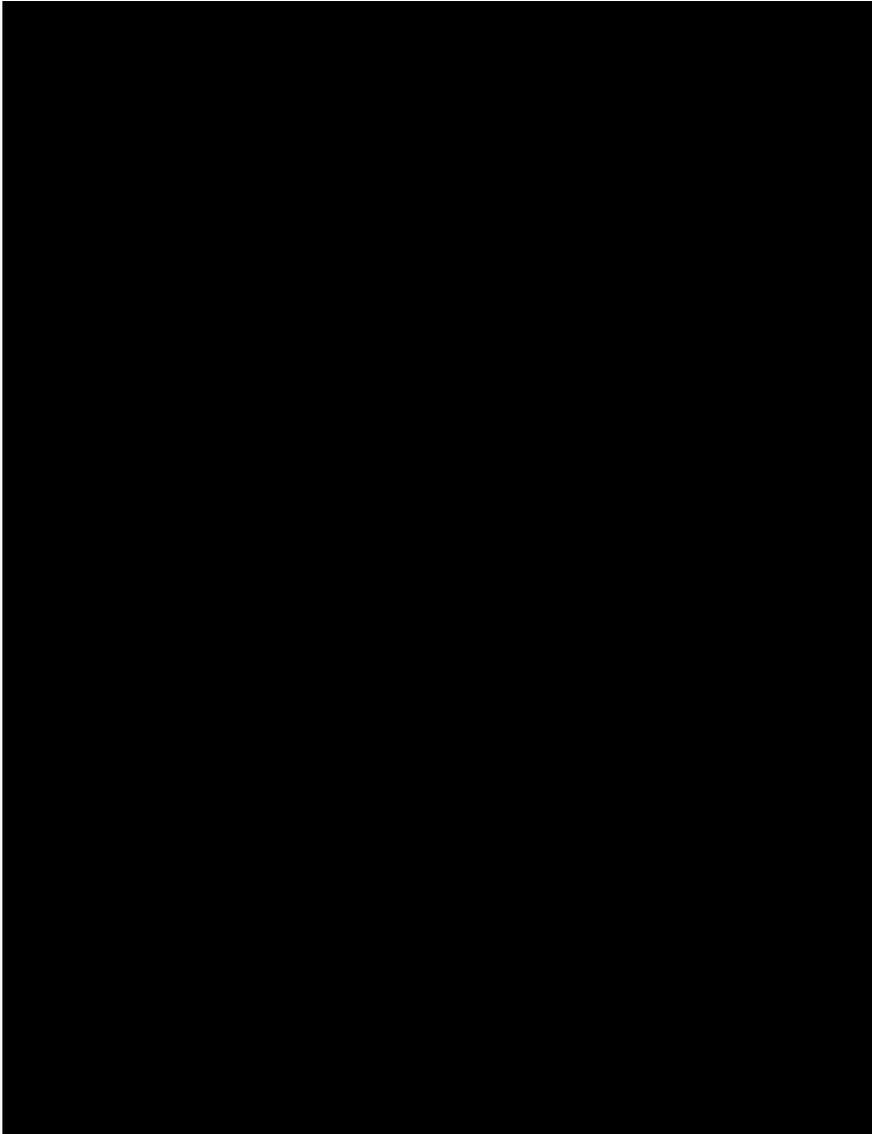
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 124 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 125 of 137

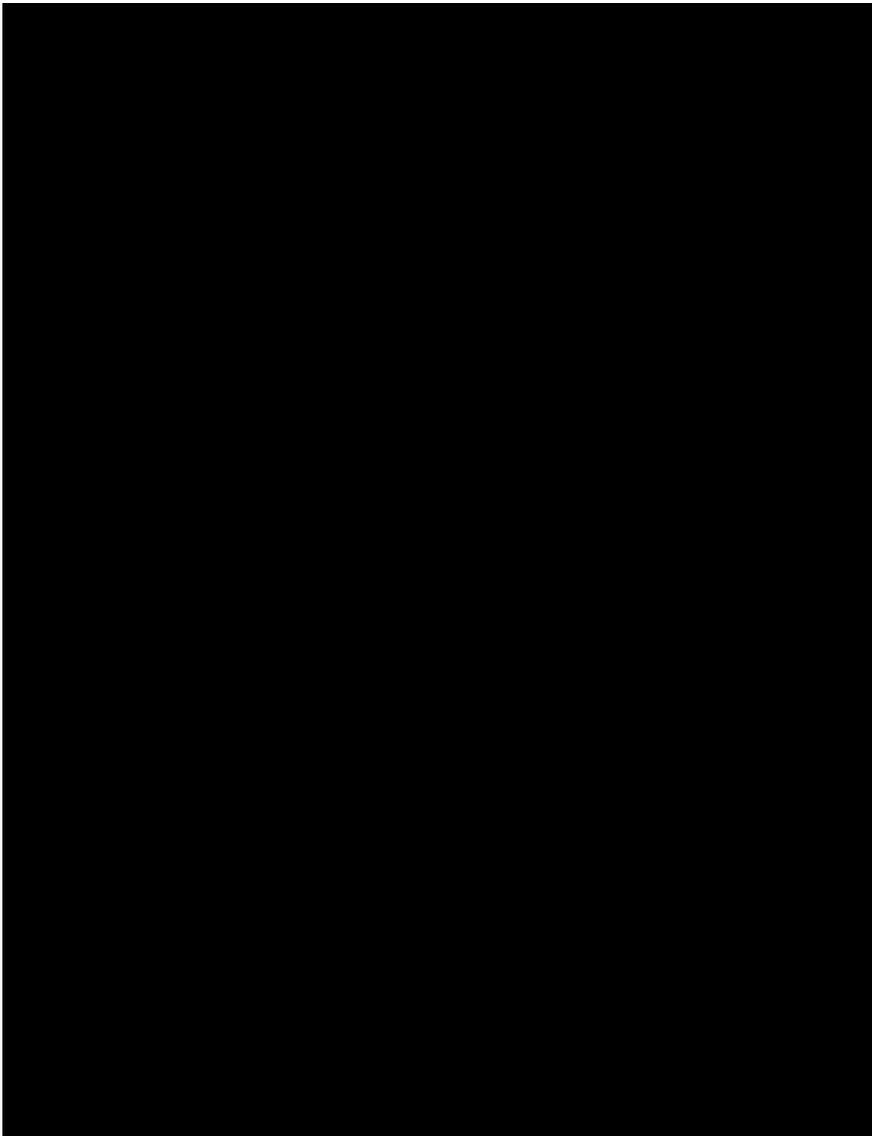
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 125 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 126 of 137

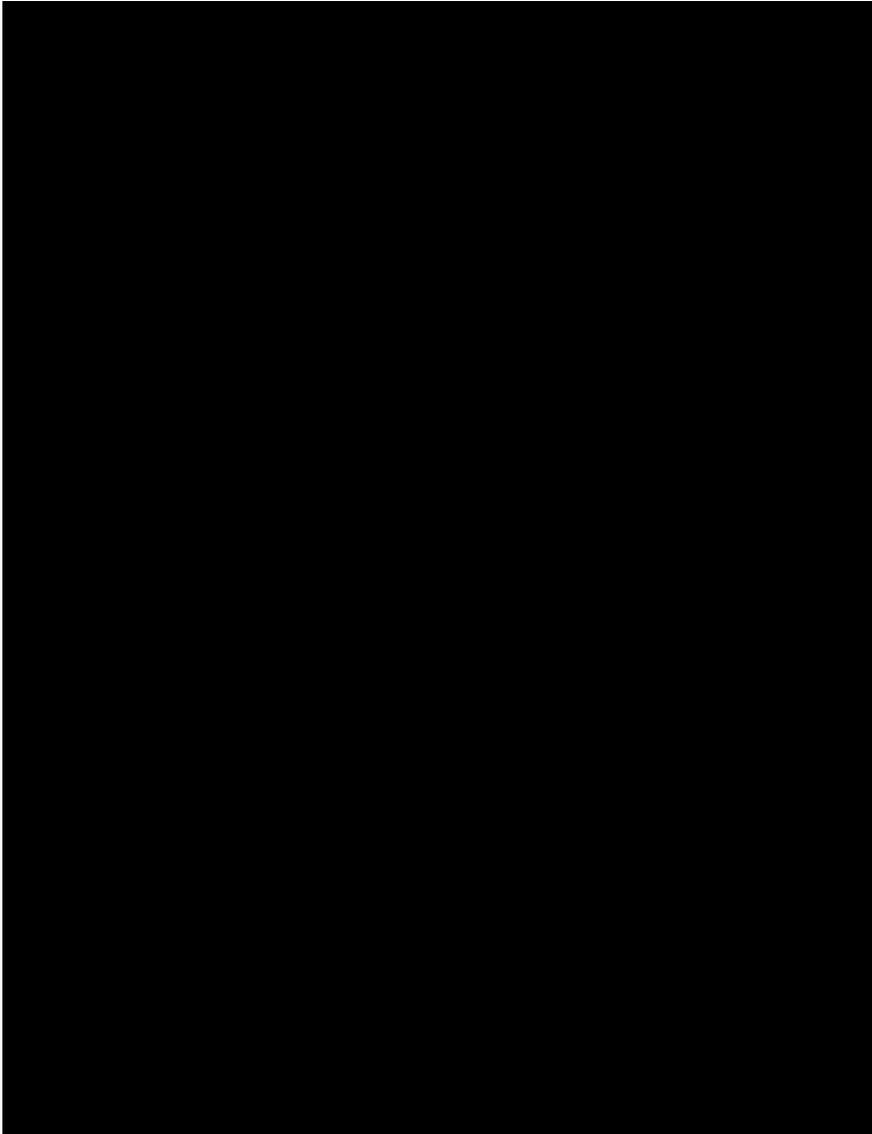
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 126 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 127 of 137

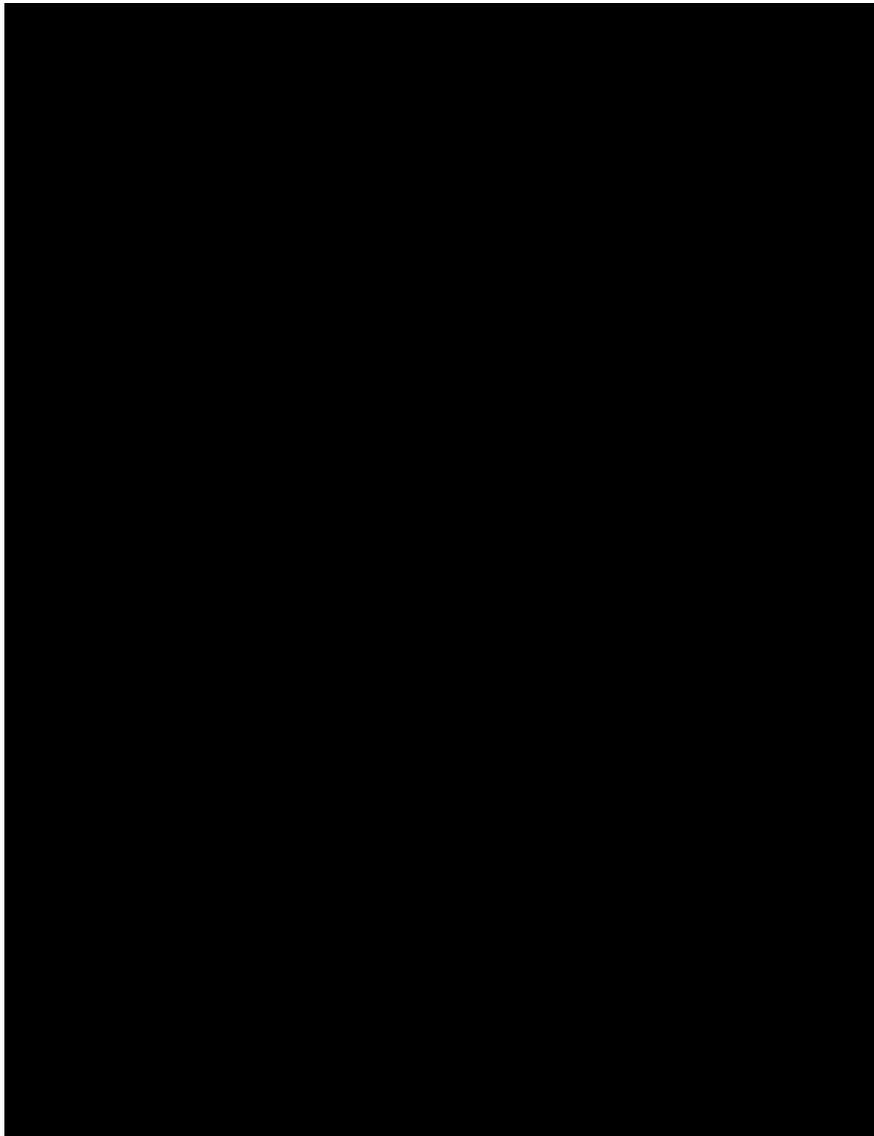
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 127 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 128 of 137

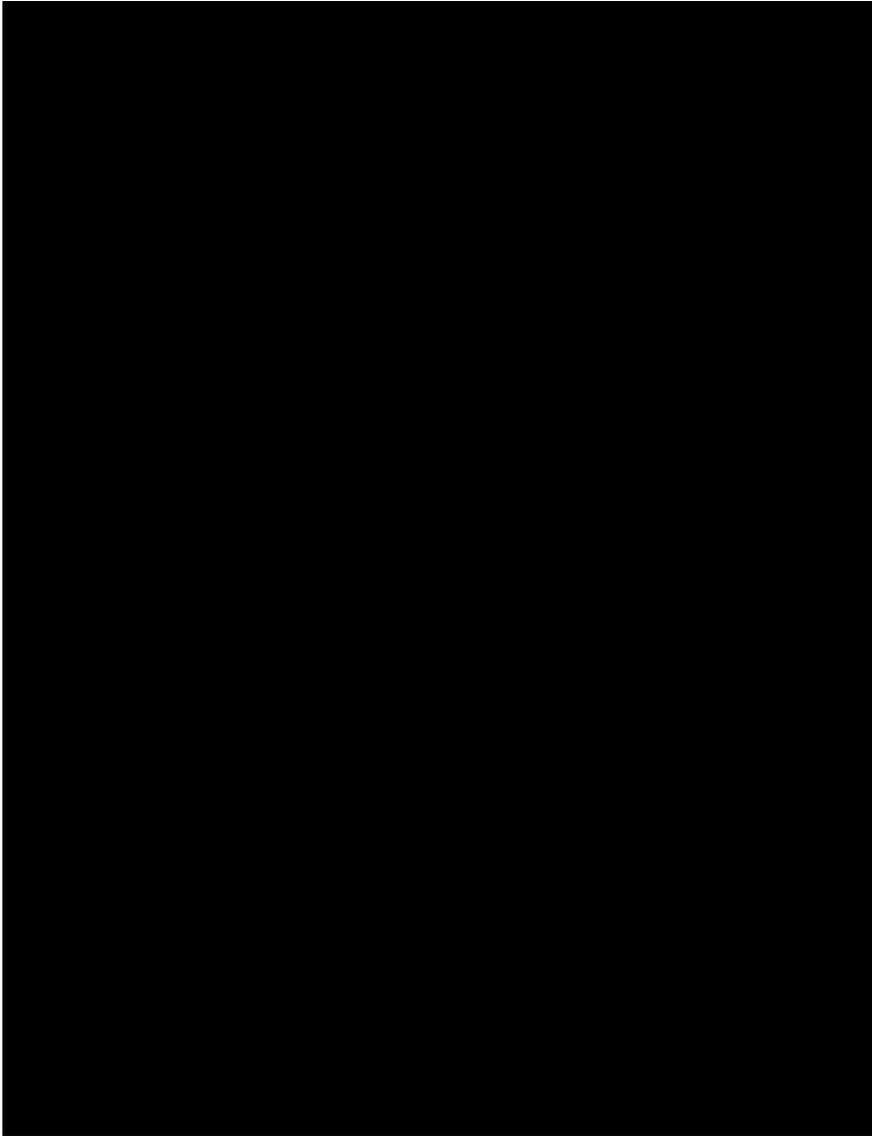
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 128 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 129 of 137

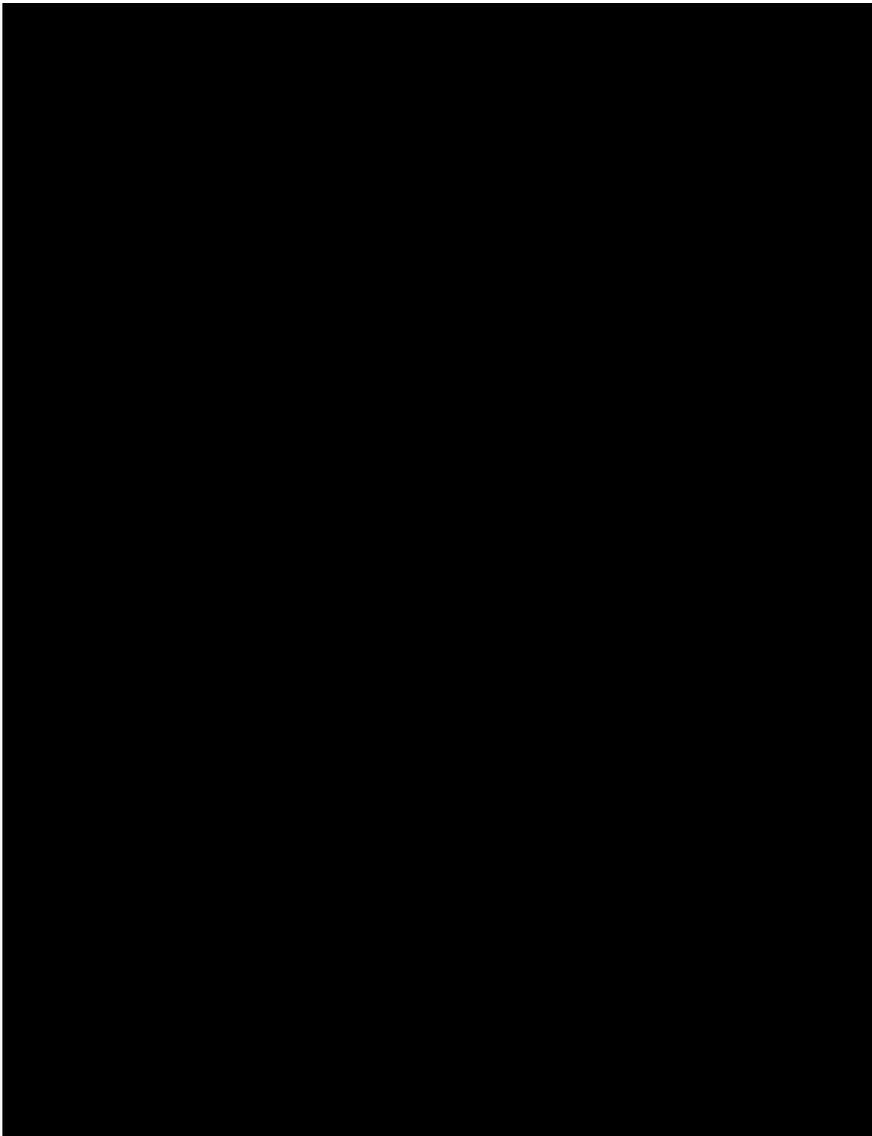
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 129 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 130 of 137

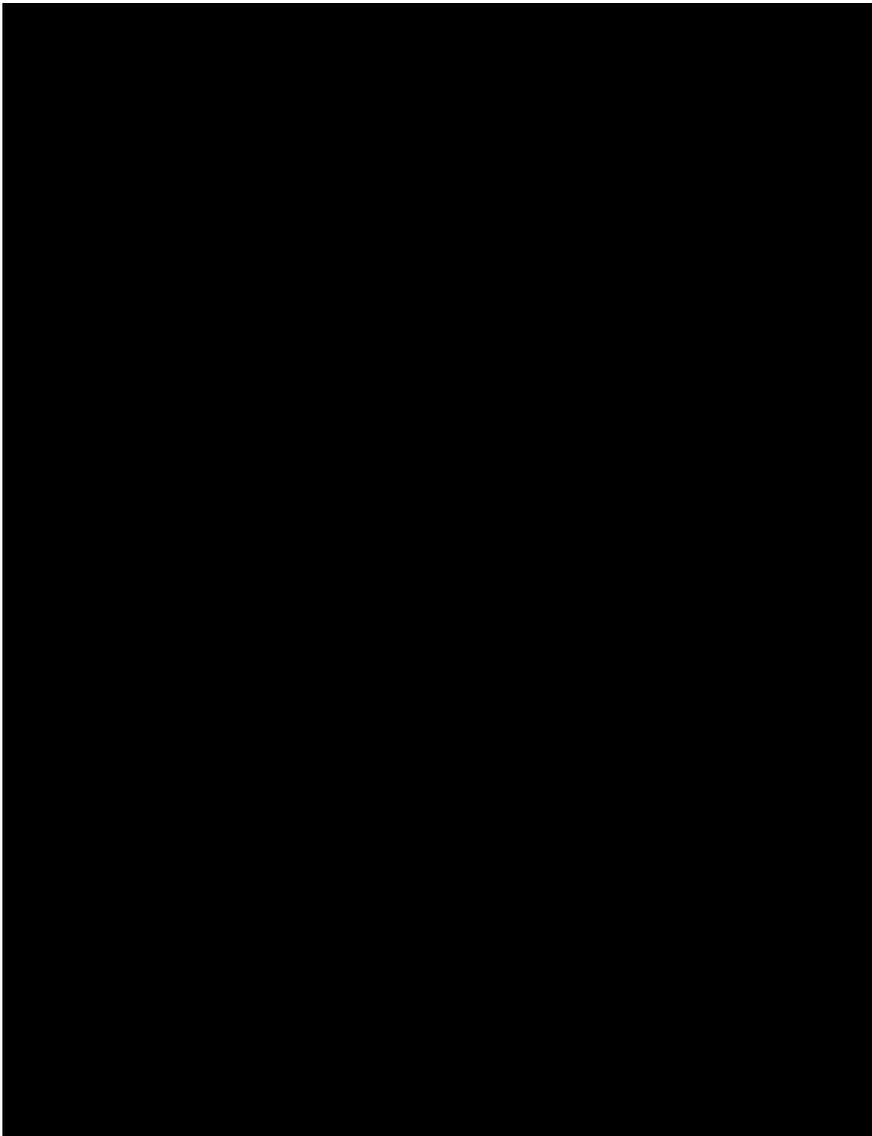
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 130 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 131 of 137

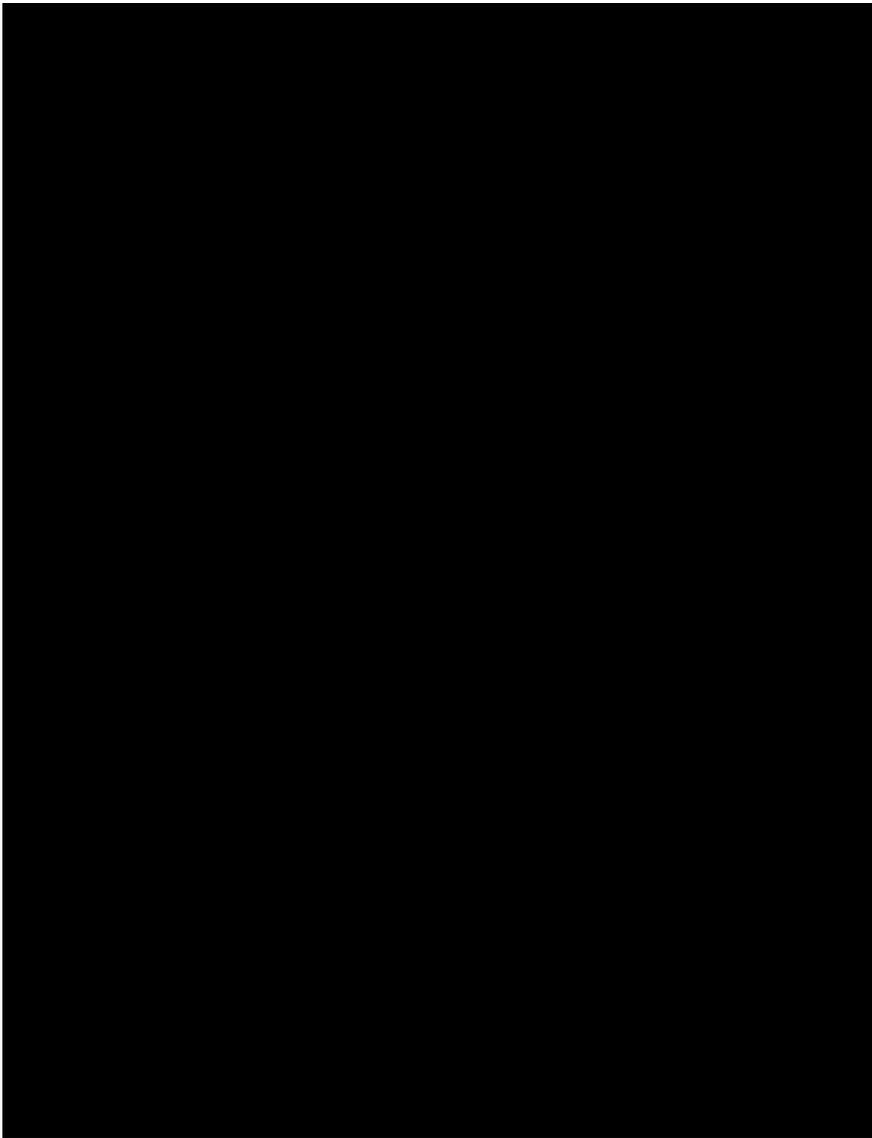
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 131 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 132 of 137

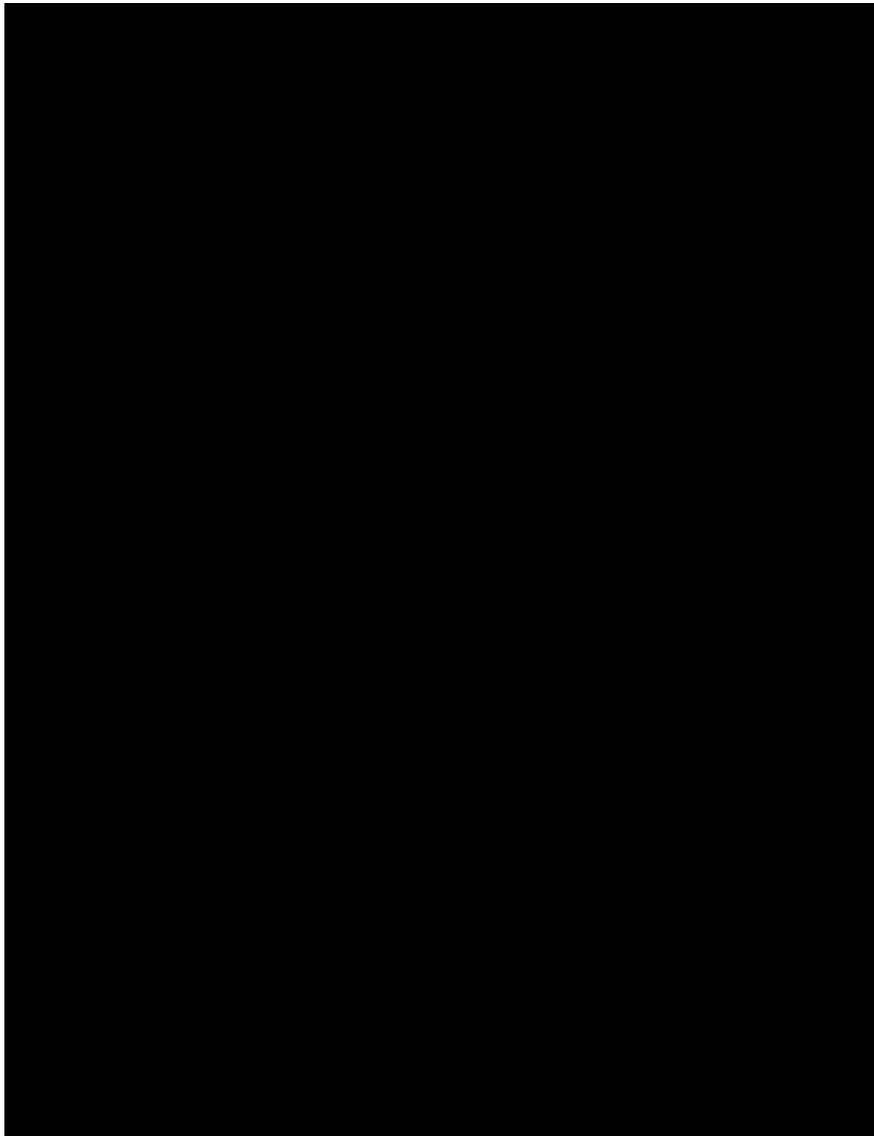
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 132 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 133 of 137

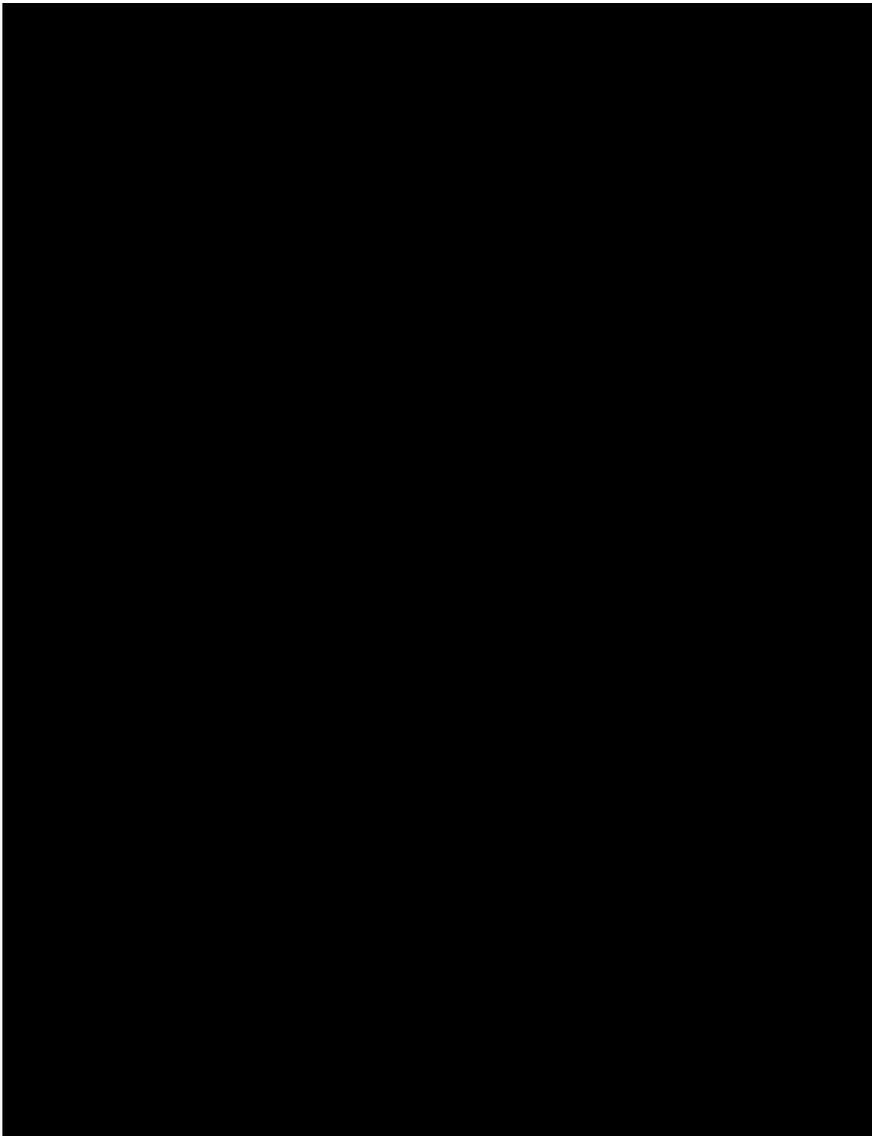
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 133 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 134 of 137

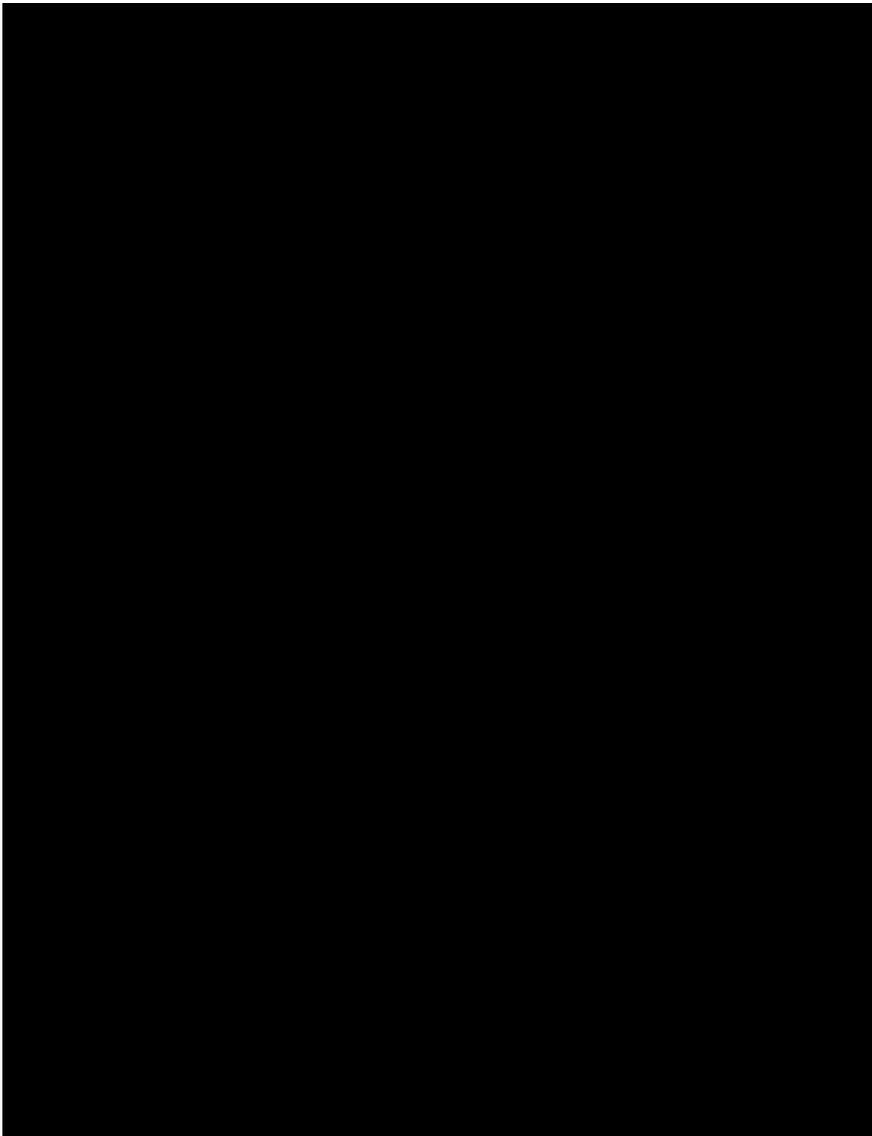
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 134 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 135 of 137

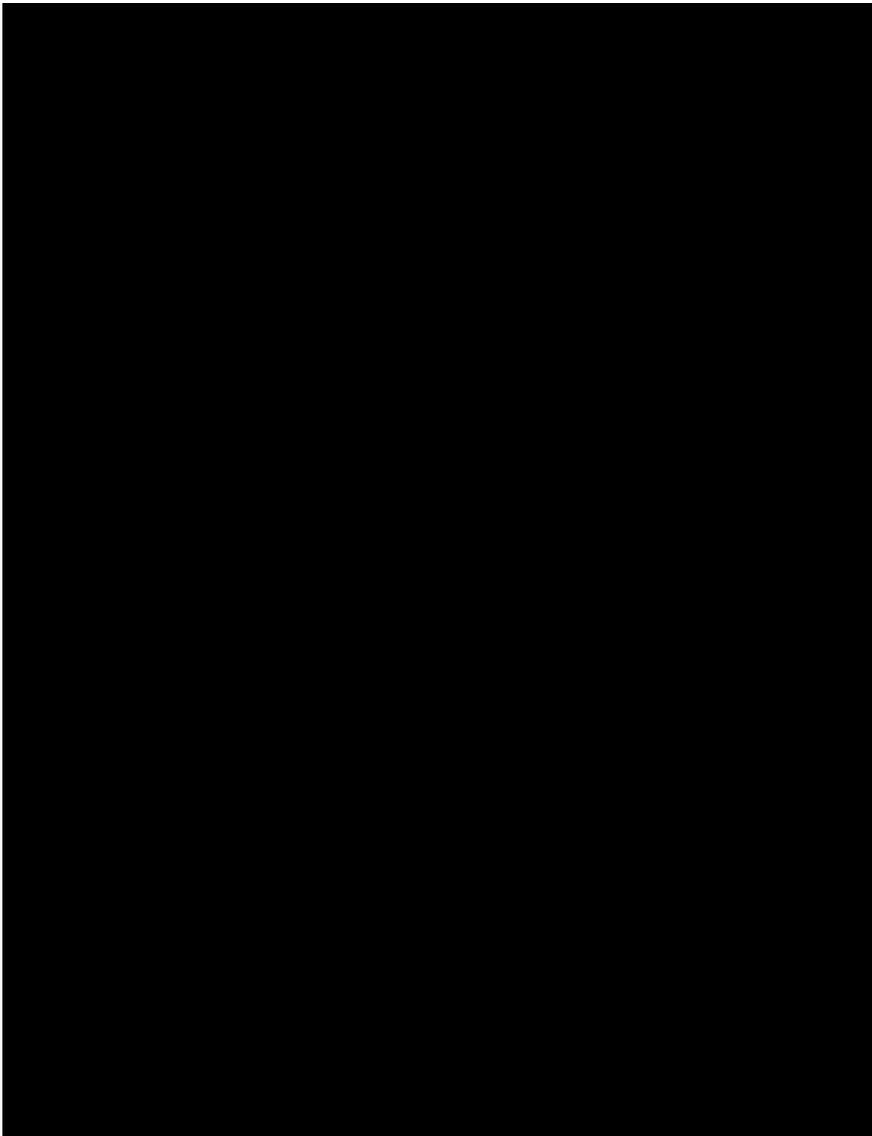
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 135 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 136 of 137

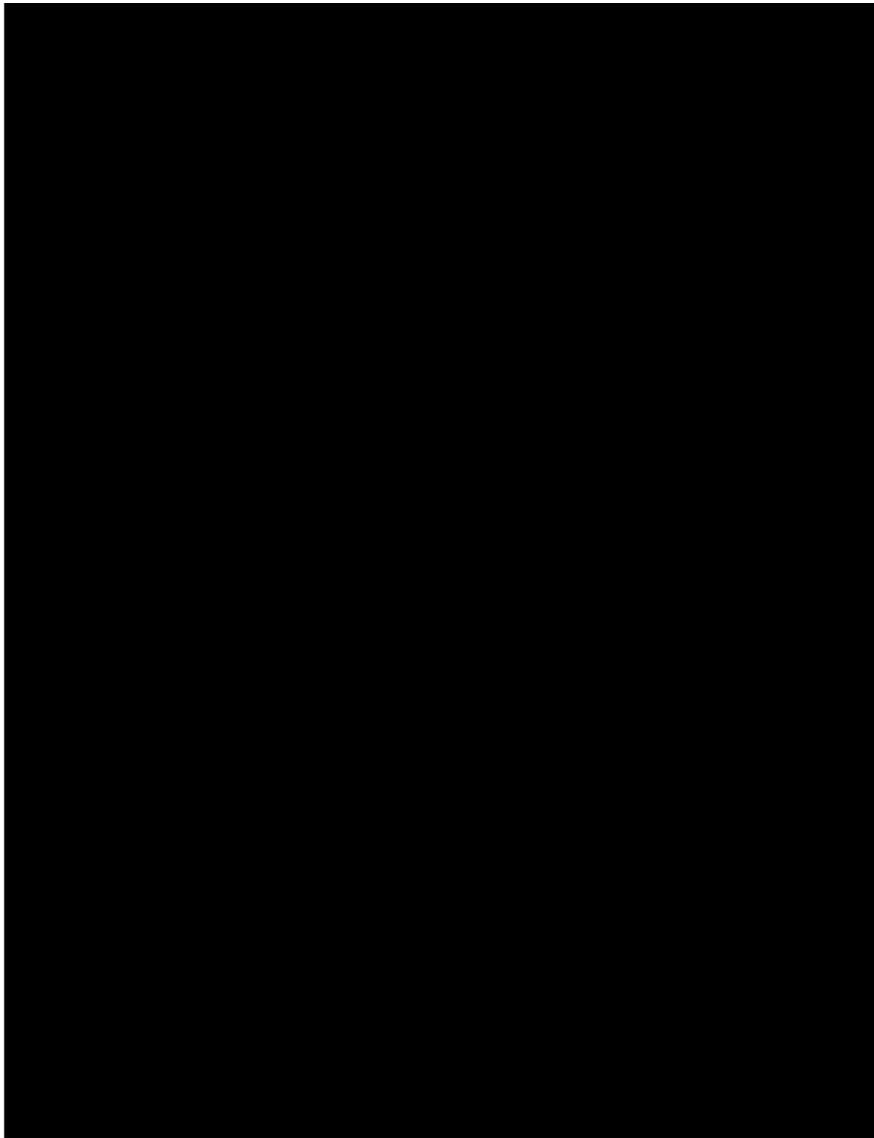
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 136 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-218
Page 137 of 137

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-7
Page 137 of 137



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 1 of 127

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 1 of 127

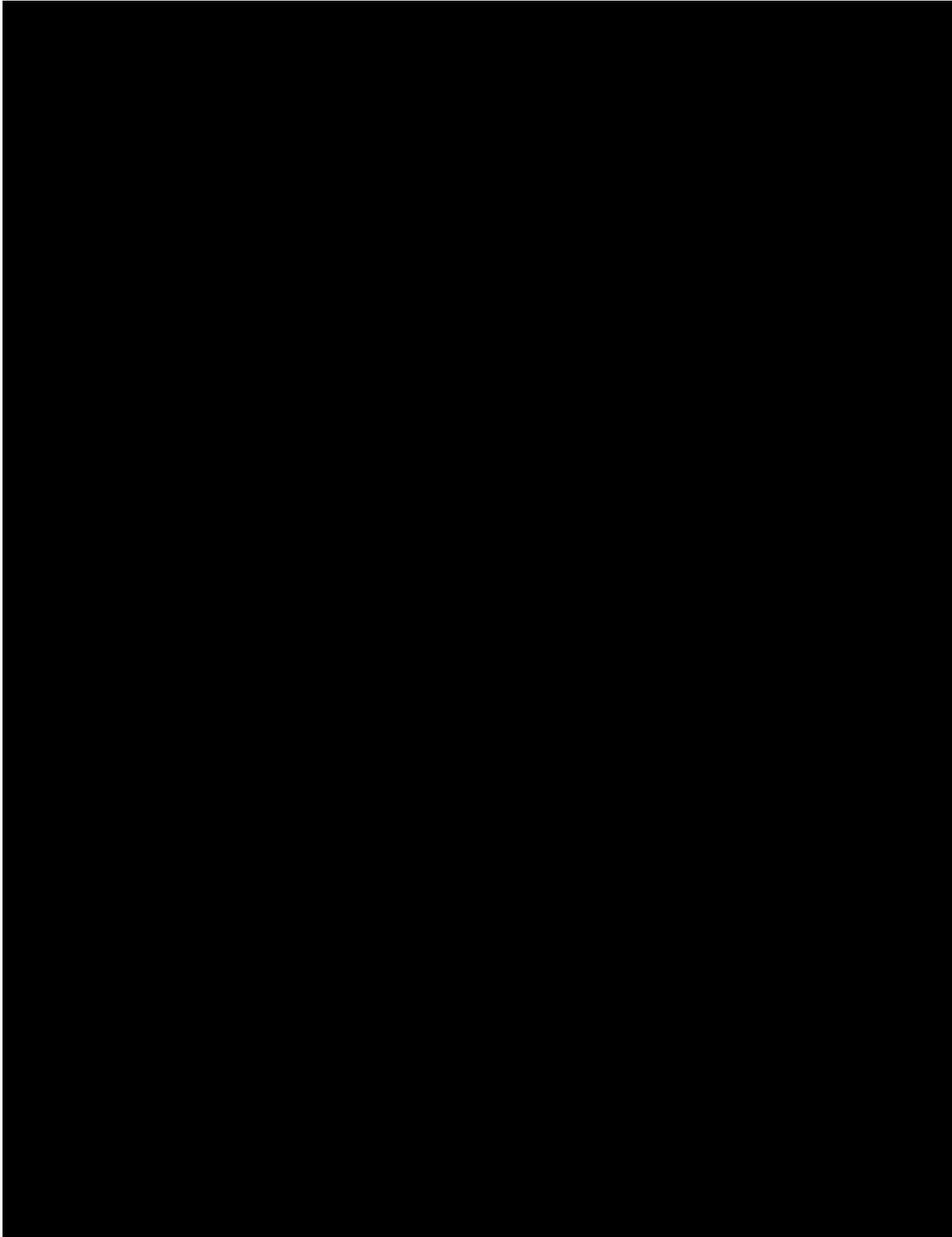


MODULE 7. DATA MANAGEMENT

REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 2 of 127

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 2 of 127



Gas Business Enablement – SI Vendor Agile Sourcing

Work Stream 7. Data Management

MODULE 7. DM TABLE OF CONTENTS

MODULE 7. DM TABLE OF CONTENTS..... 3

1. **KEY AND CRITICAL SUPPORT PERSONNEL**..... 4

2. **PROJECT PLAN**, [REDACTED] 5

3. **RESOURCE PLANNING AND STAFFING** [REDACTED] 5

4. **MODULE INITIATIVES** [REDACTED] 6

[REDACTED]

[REDACTED]

[REDACTED]

5. **PROPOSED SERVICE** [REDACTED] 9

6. **KEY PROGRAM** [REDACTED] **REQUIREMENTS** 11

7. [REDACTED] **ASSUMPTIONS** 13

[REDACTED]

8. **ESTIMATION FACTORS USED FOR** [REDACTED] **ASSUMPTIONS** 15

[REDACTED]

[REDACTED]

[REDACTED]

9. [REDACTED] 19

10. [REDACTED] 20

11. **APPENDIX** 21

[REDACTED]

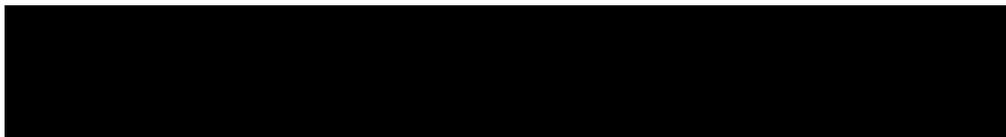
[REDACTED]

[REDACTED]

12. [REDACTED] **CLARIFYING QUESTIONS FOR WRITTEN SUBMISSION** 28

[REDACTED]

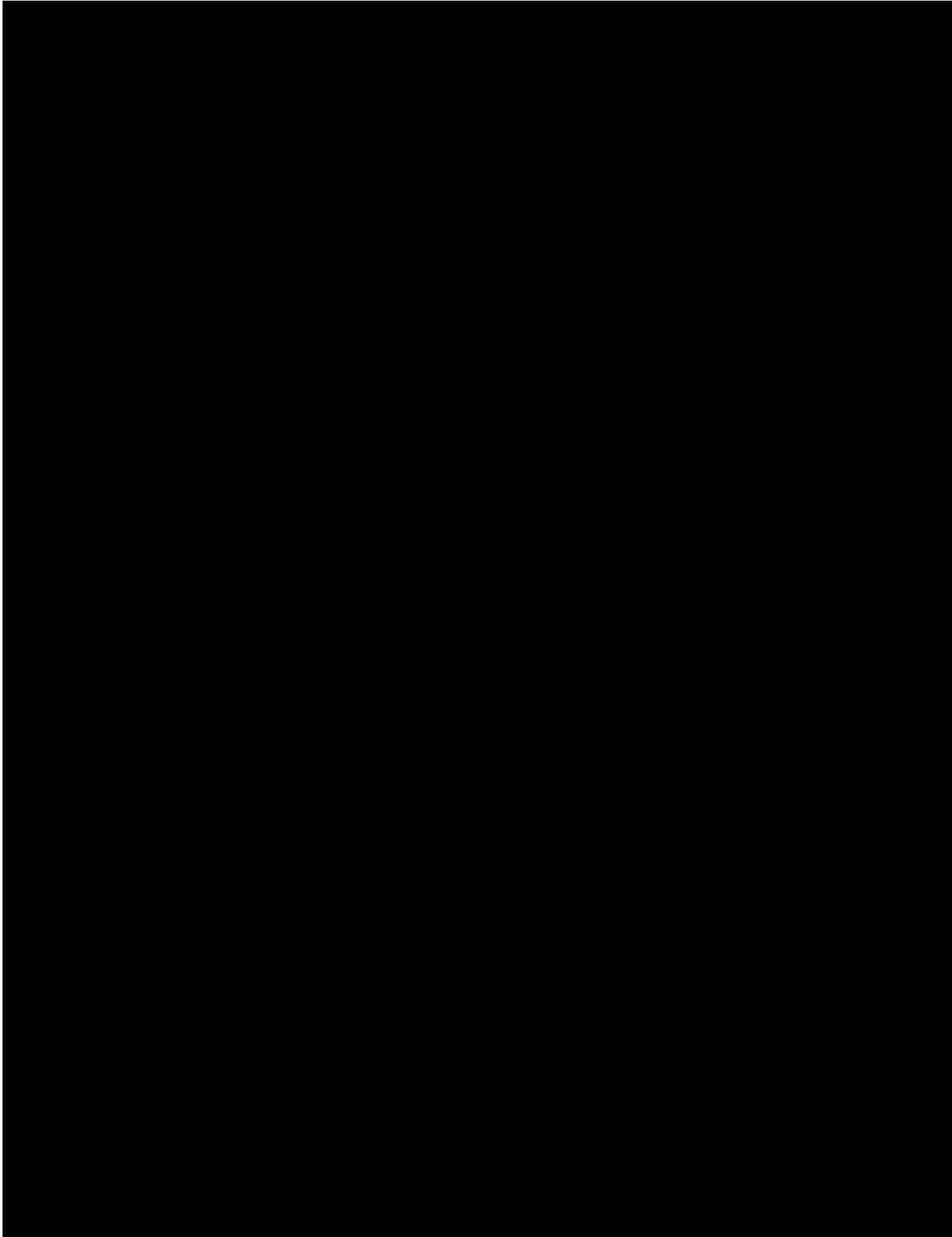
[REDACTED]



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 4 of 127

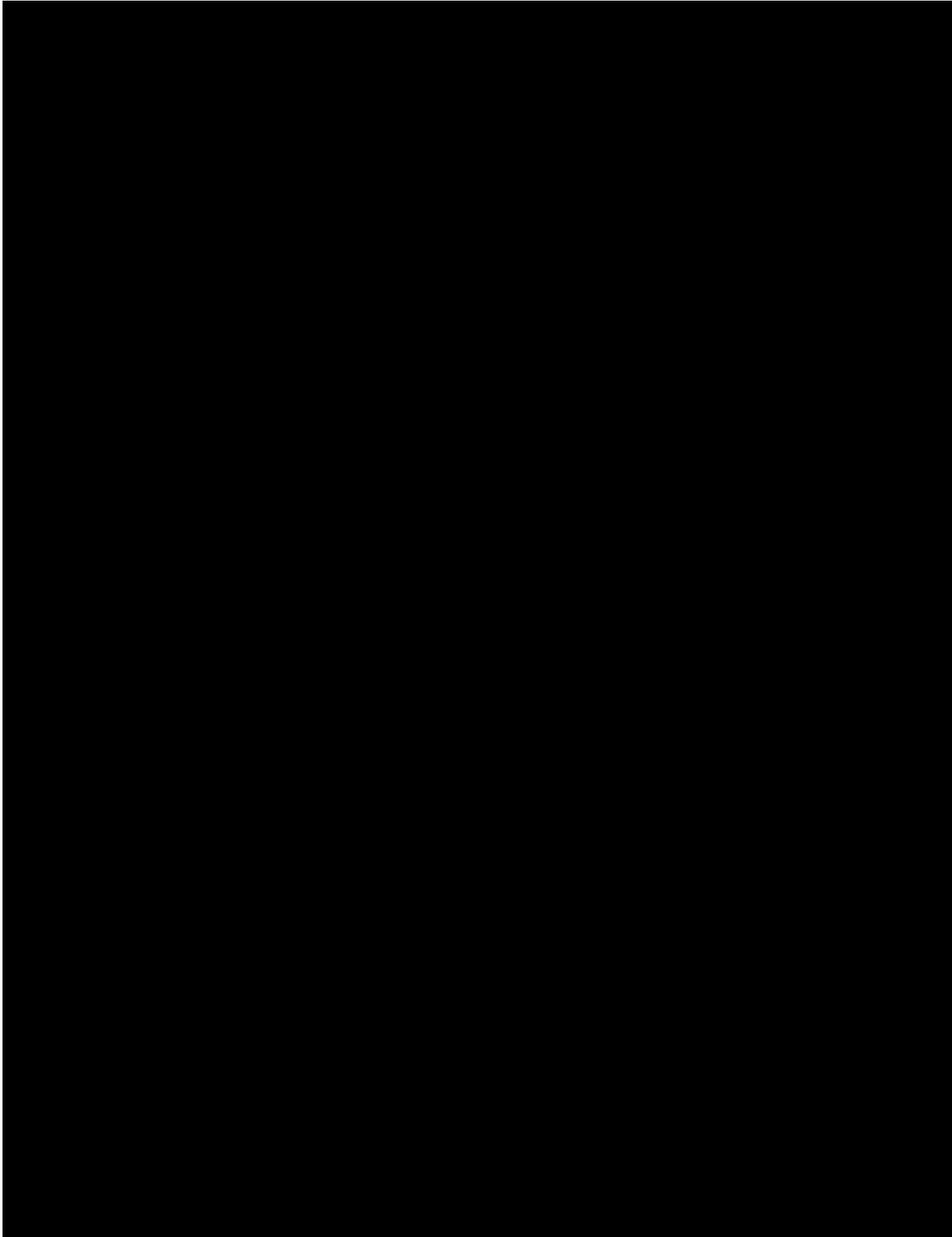
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 4 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 5 of 127

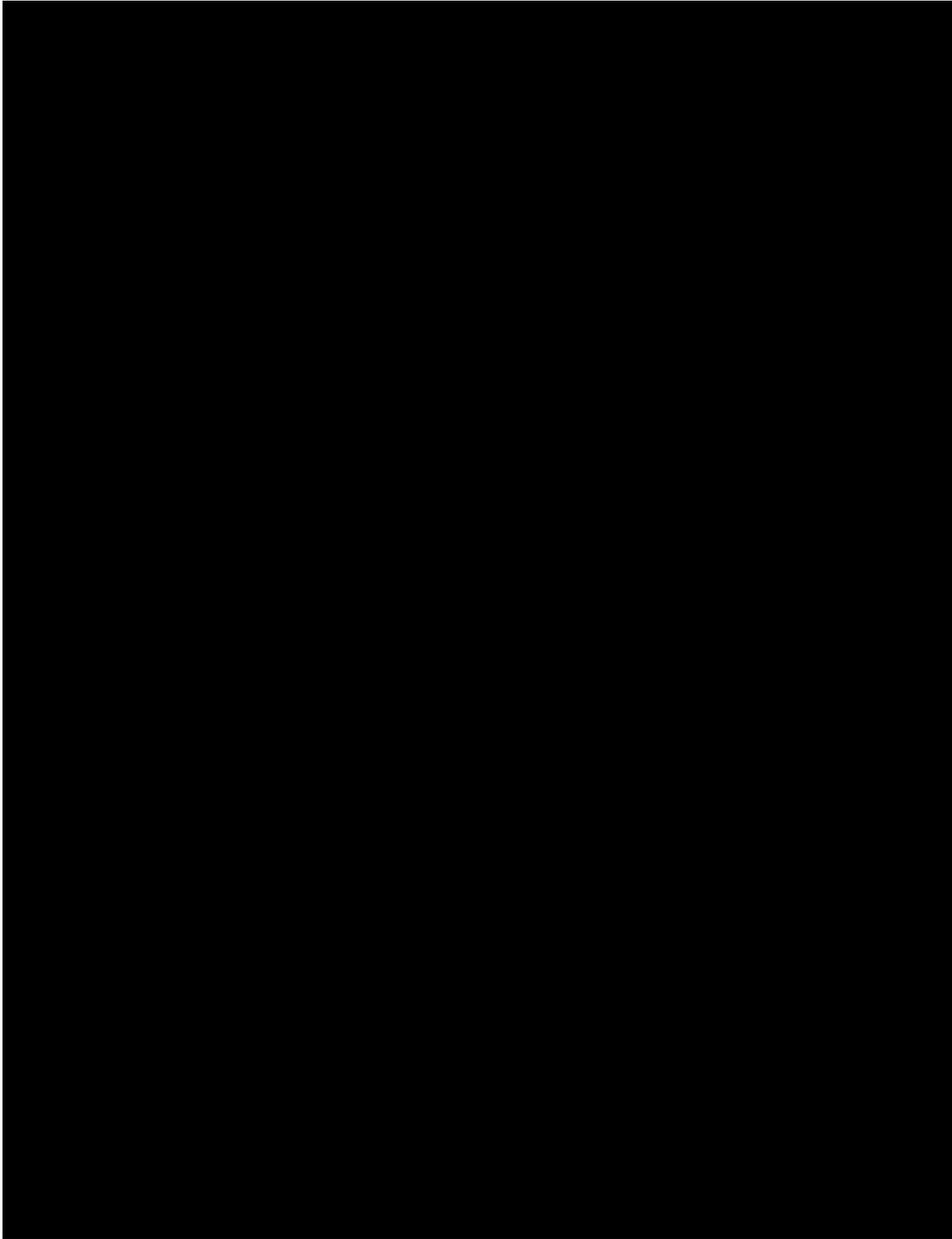
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 5 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 6 of 127

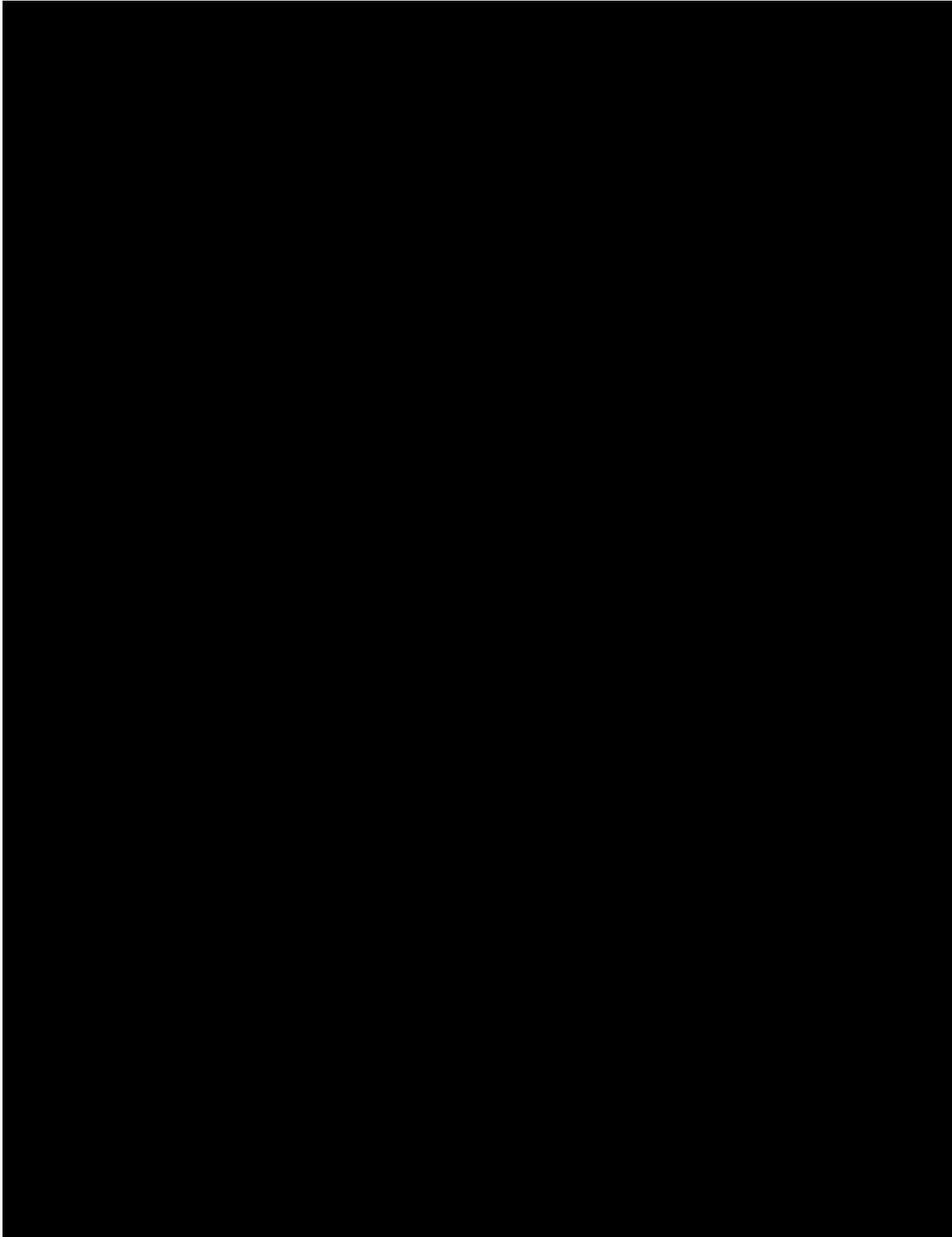
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 6 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 7 of 127

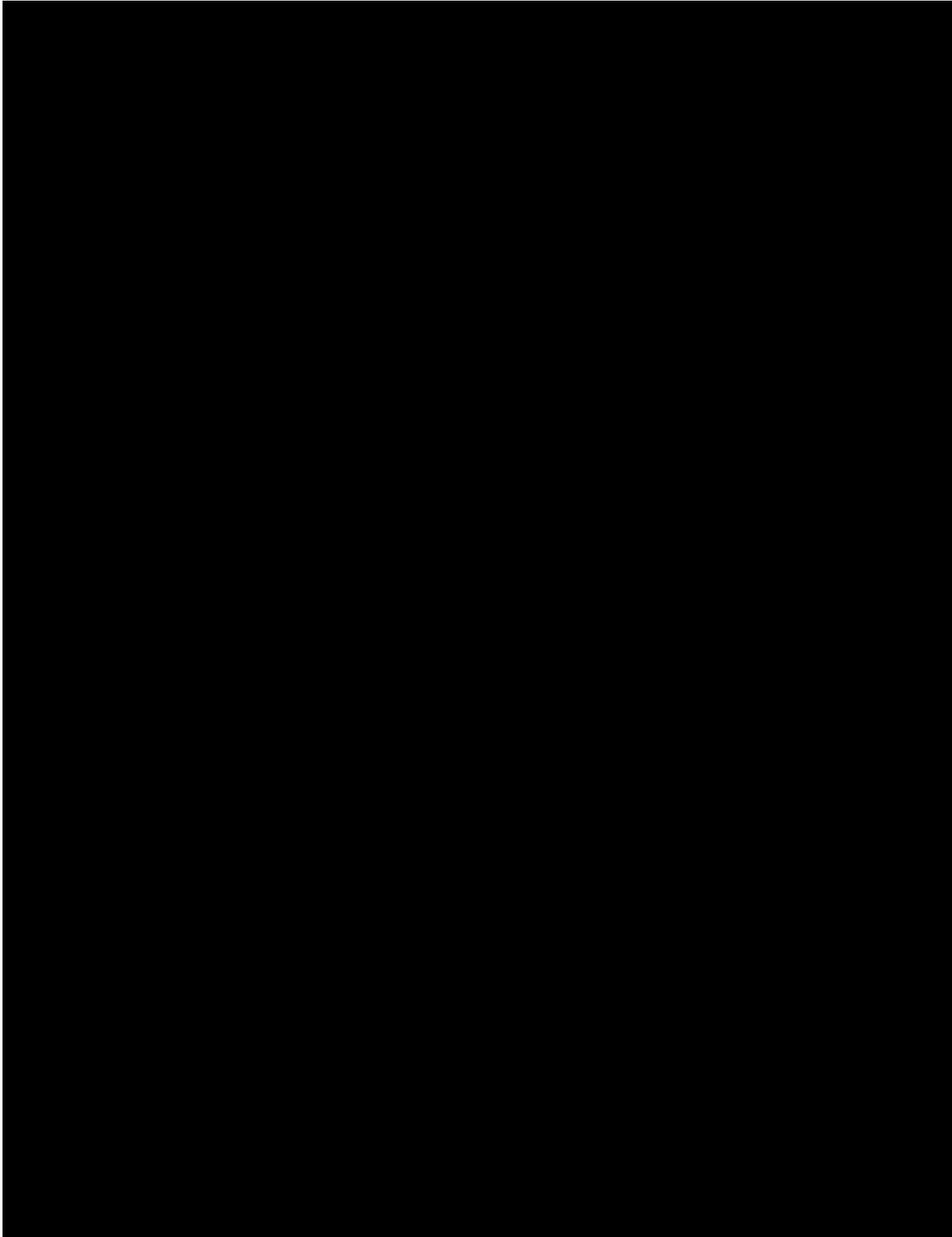
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 7 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 8 of 127

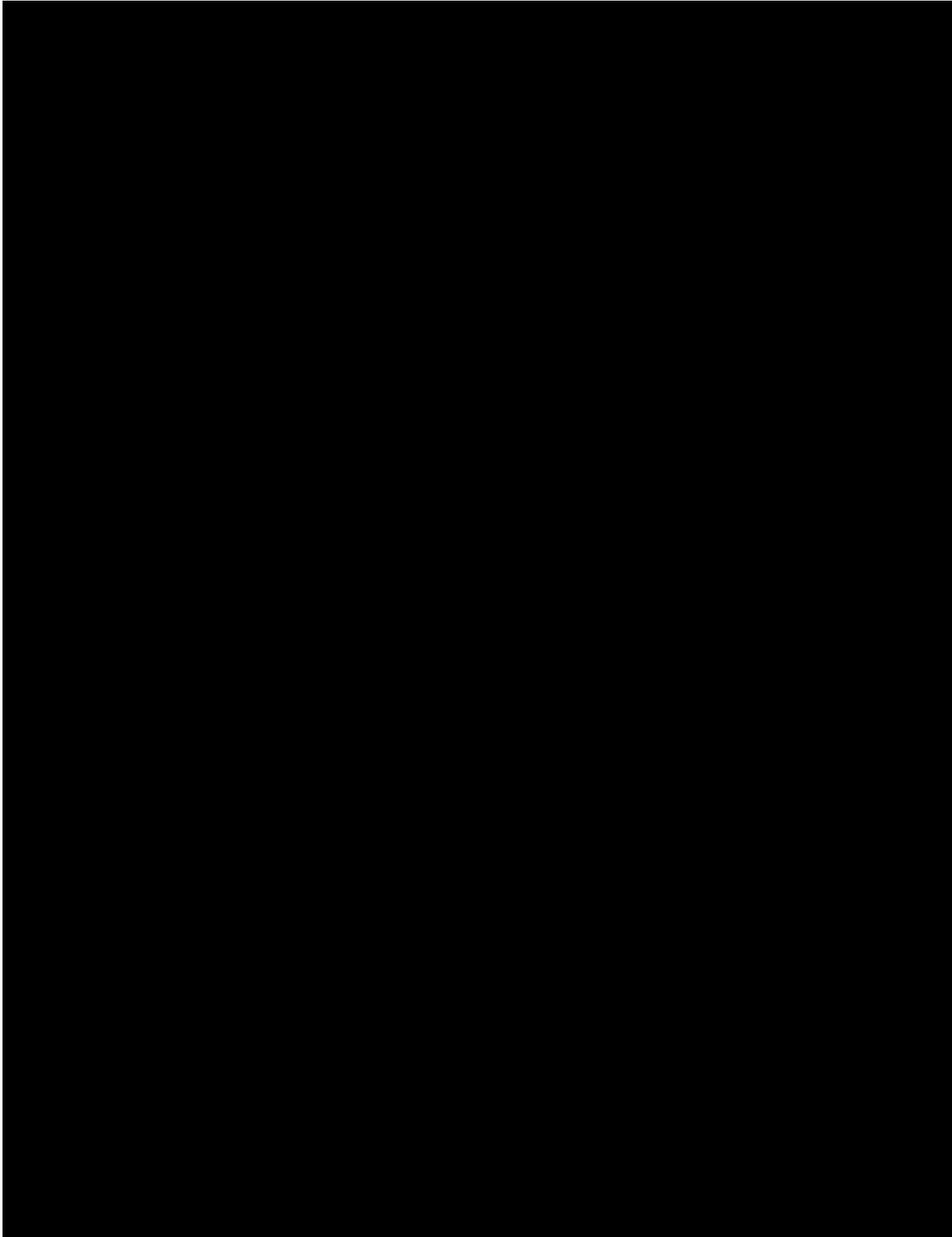
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 8 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 9 of 127

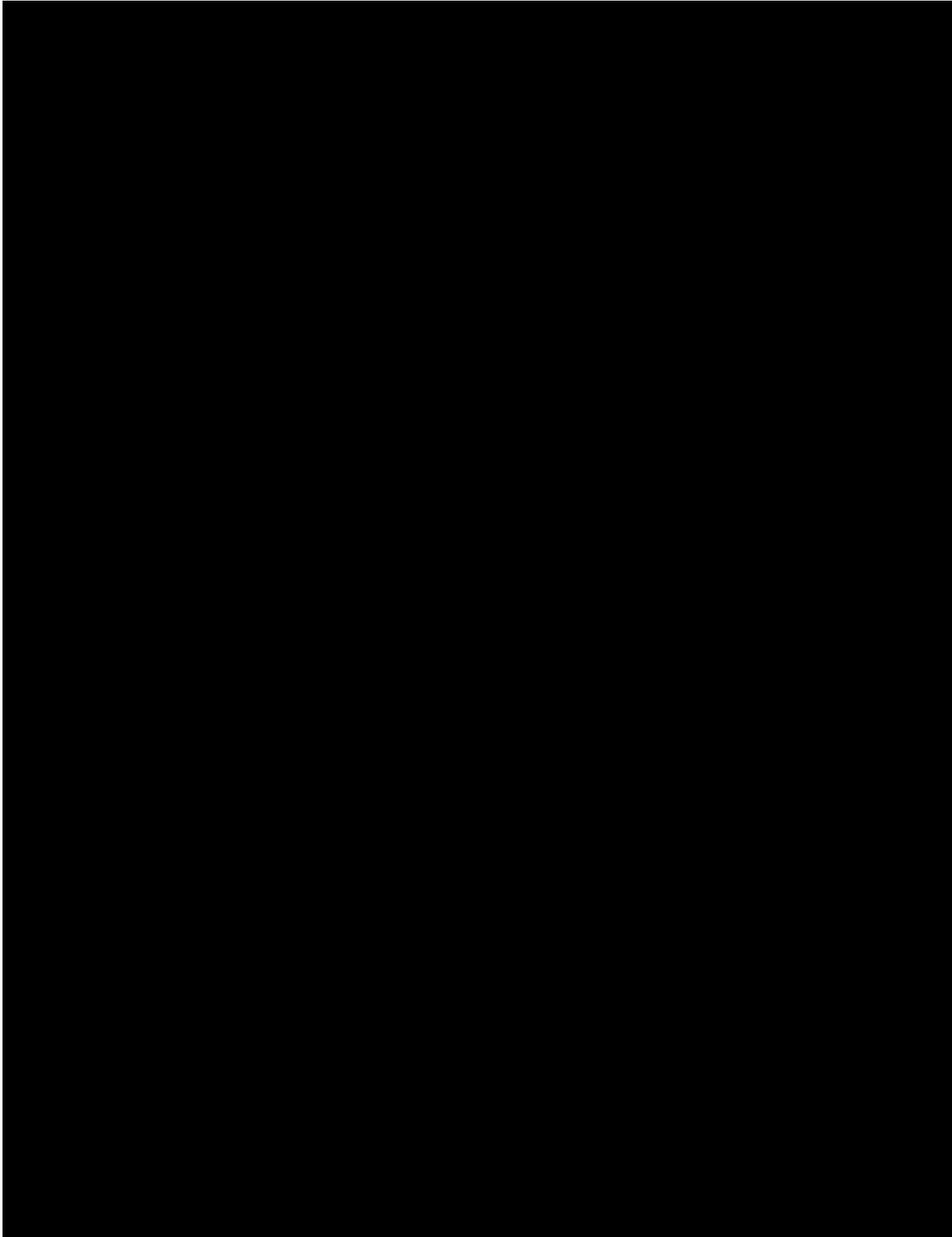
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 9 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 10 of 127

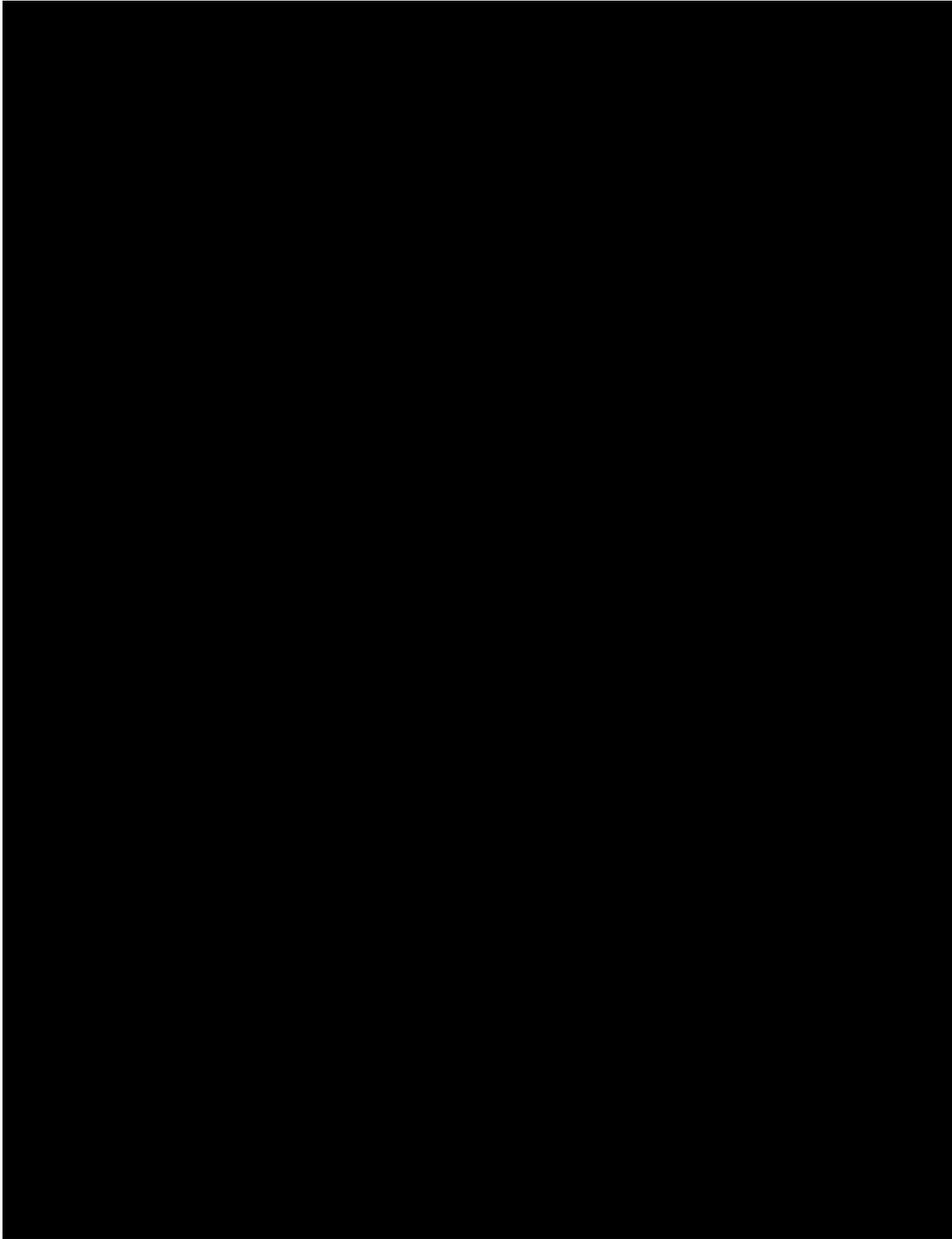
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 10 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 11 of 127

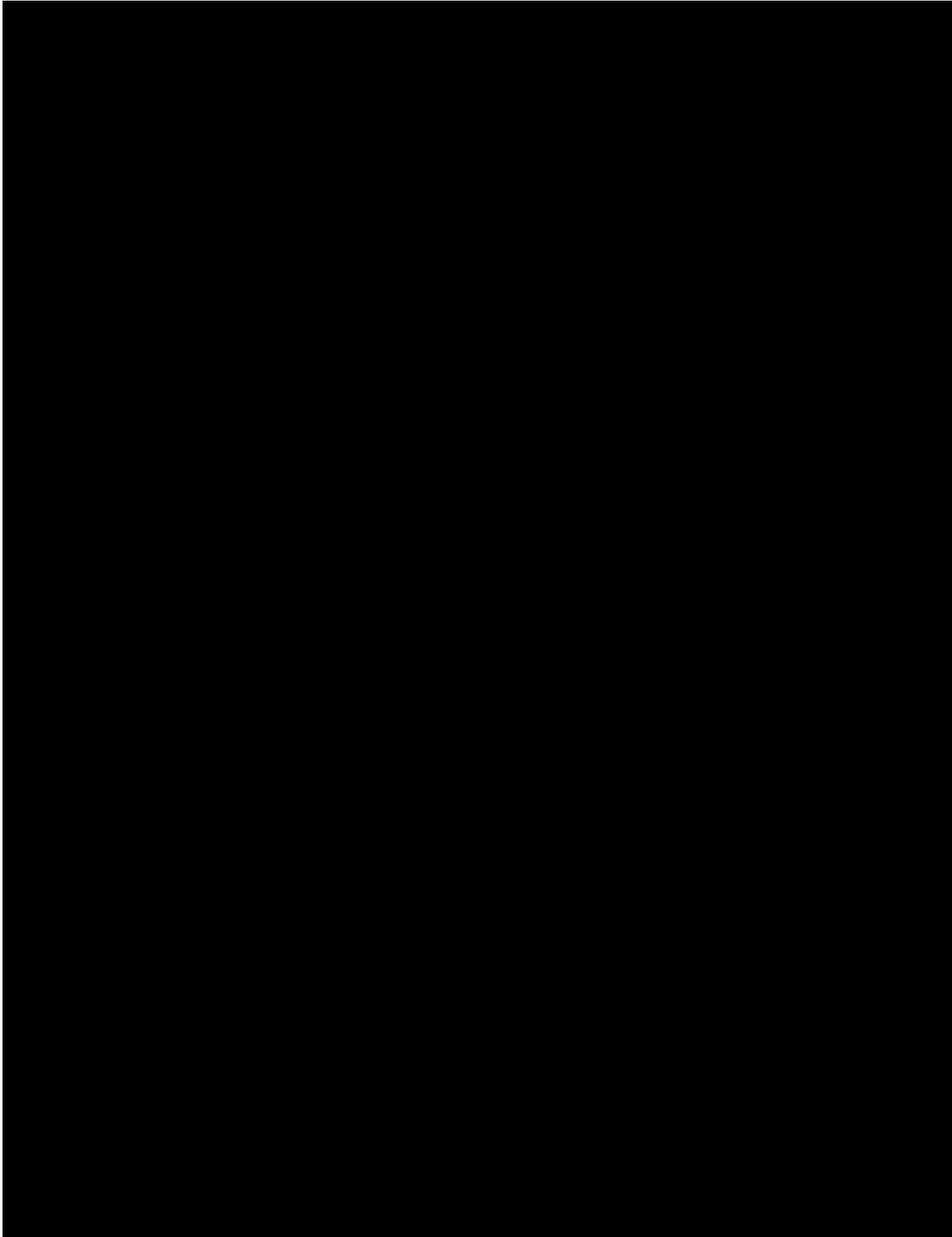
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 11 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 12 of 127

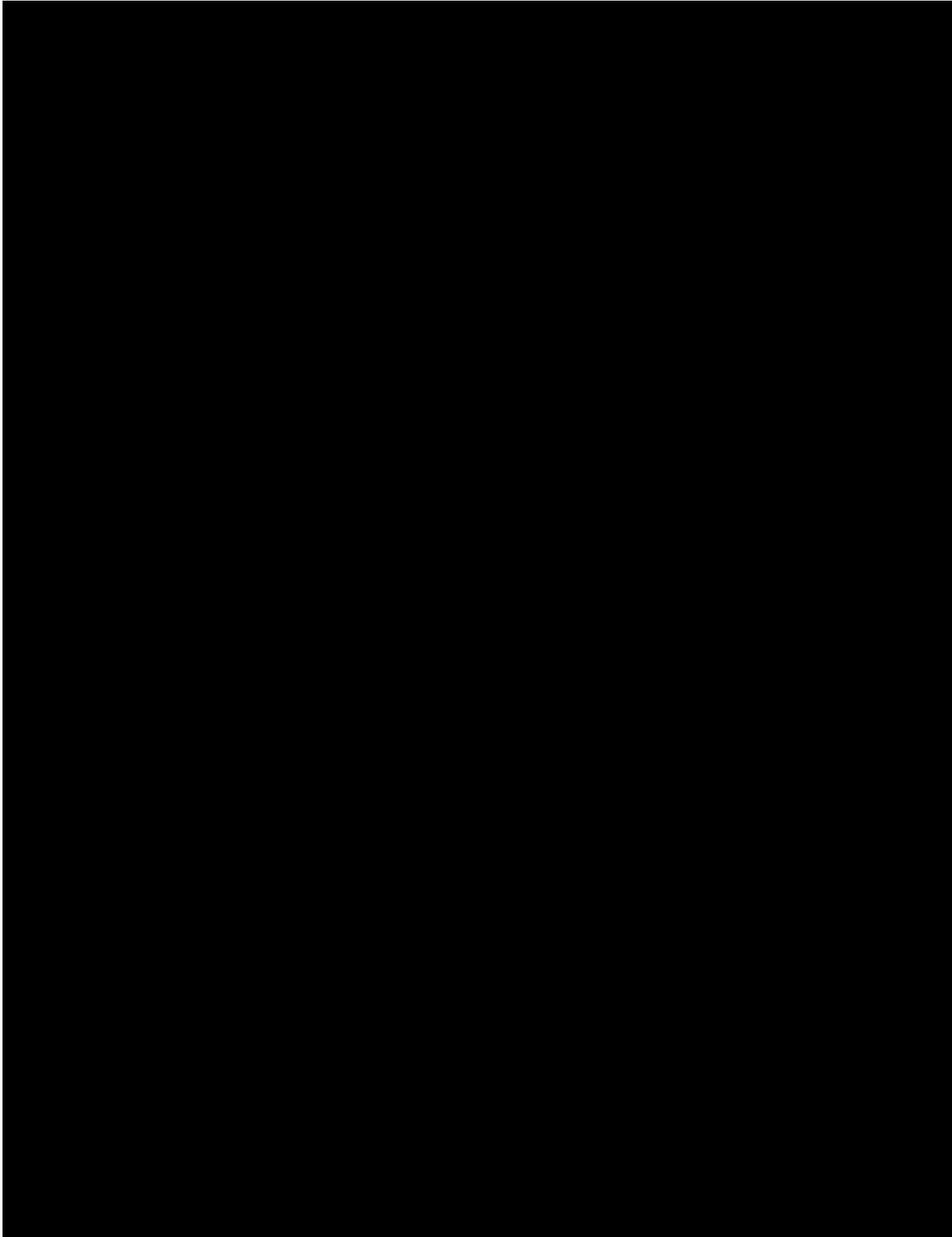
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 12 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 13 of 127

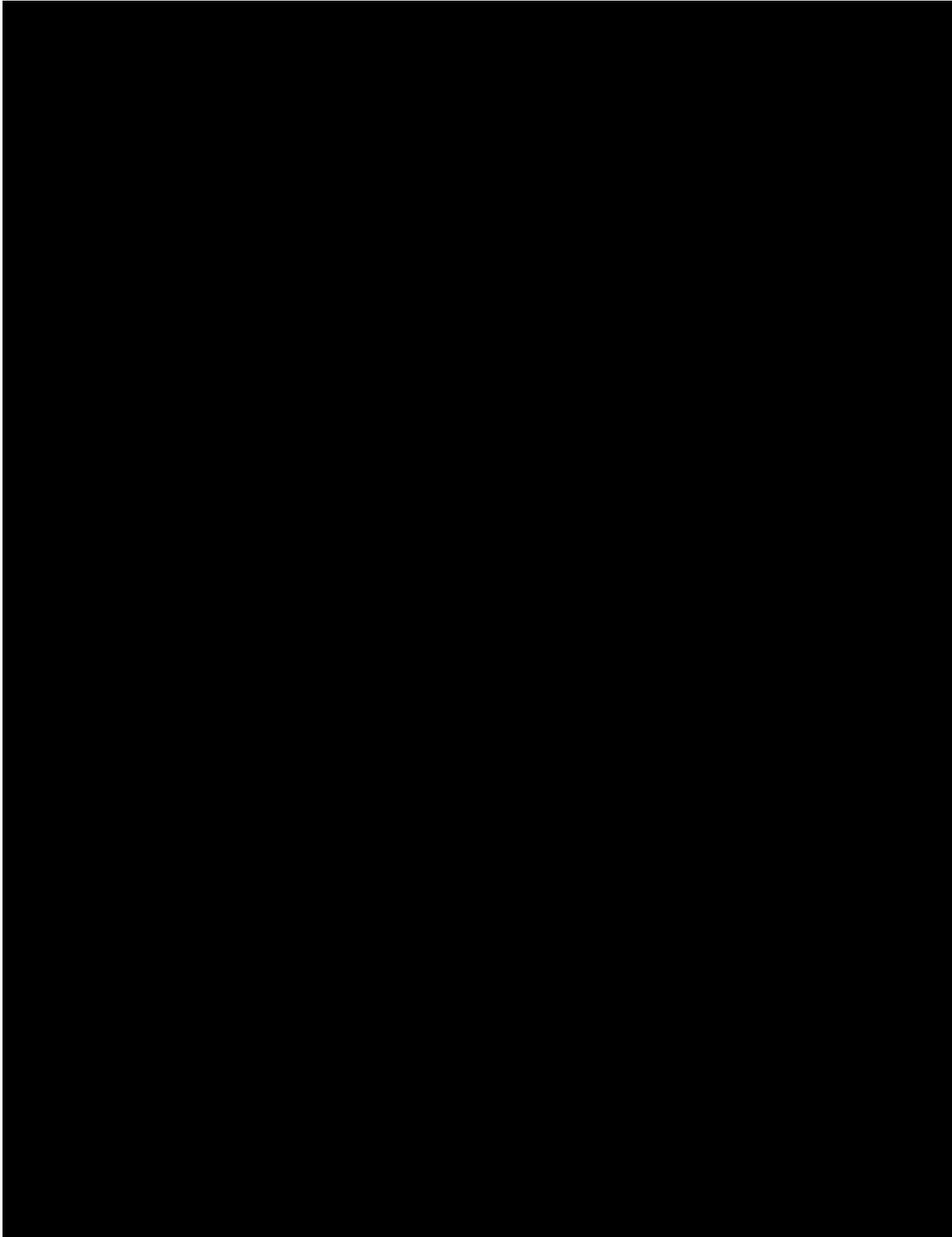
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 13 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 14 of 127

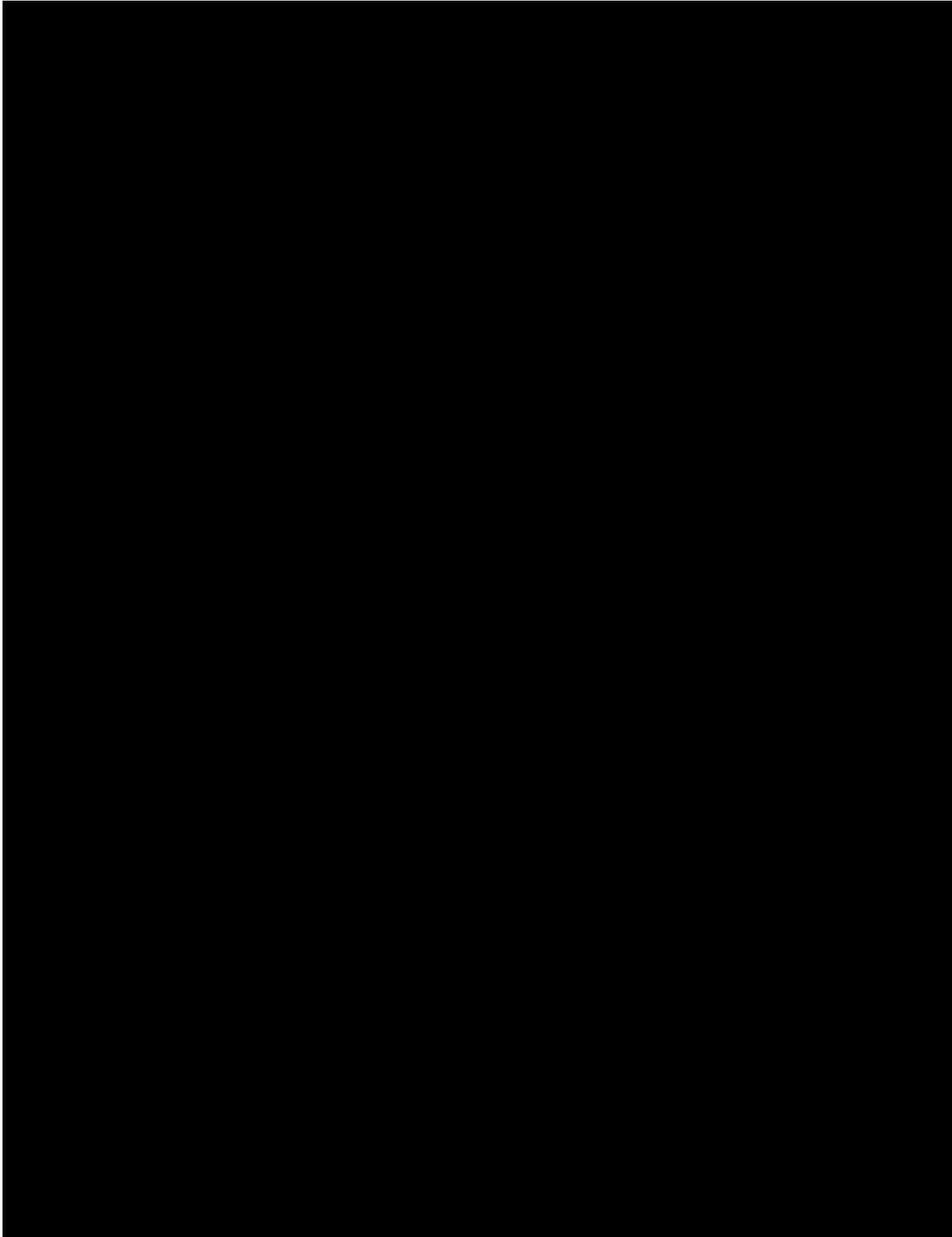
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 14 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 15 of 127

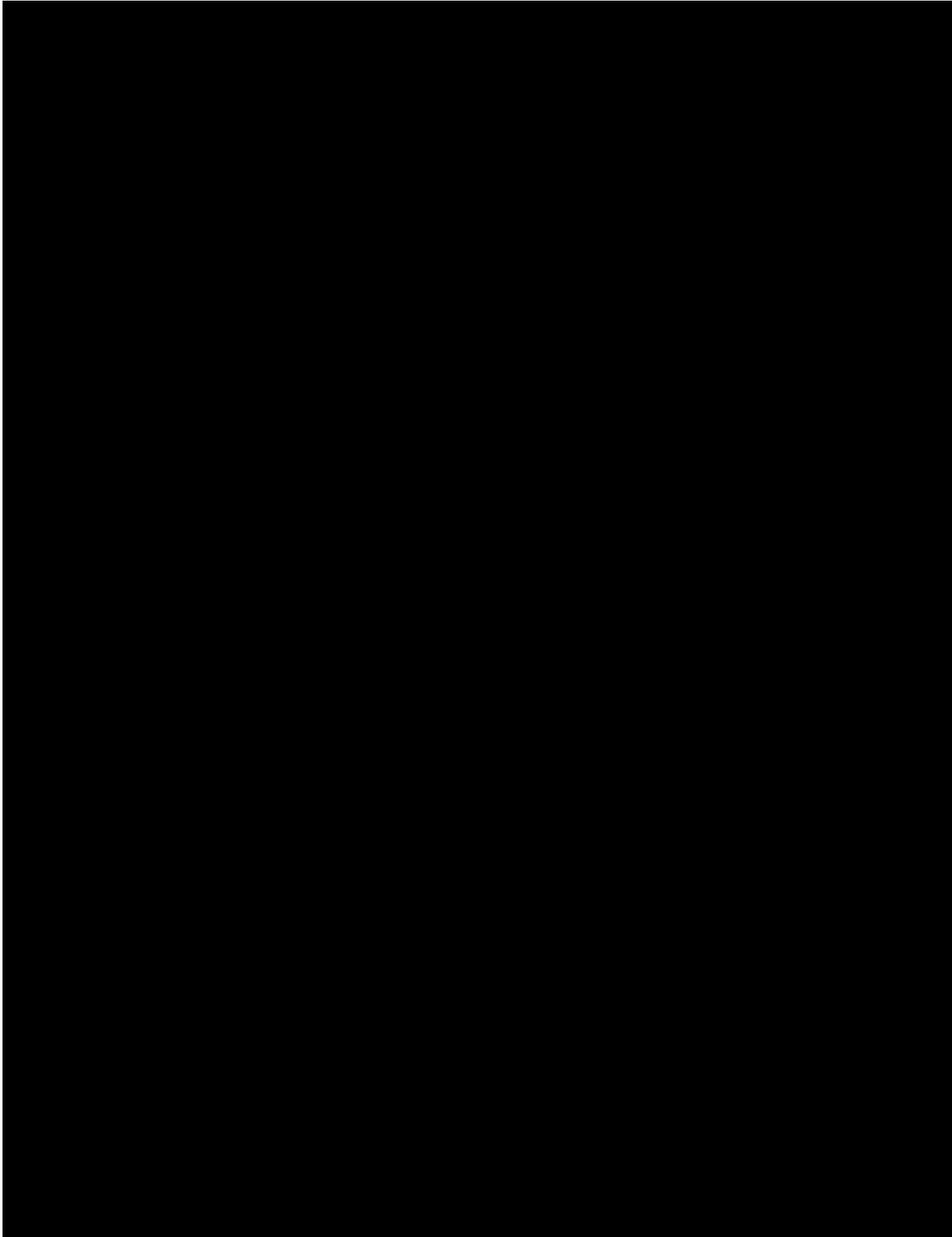
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 15 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 16 of 127

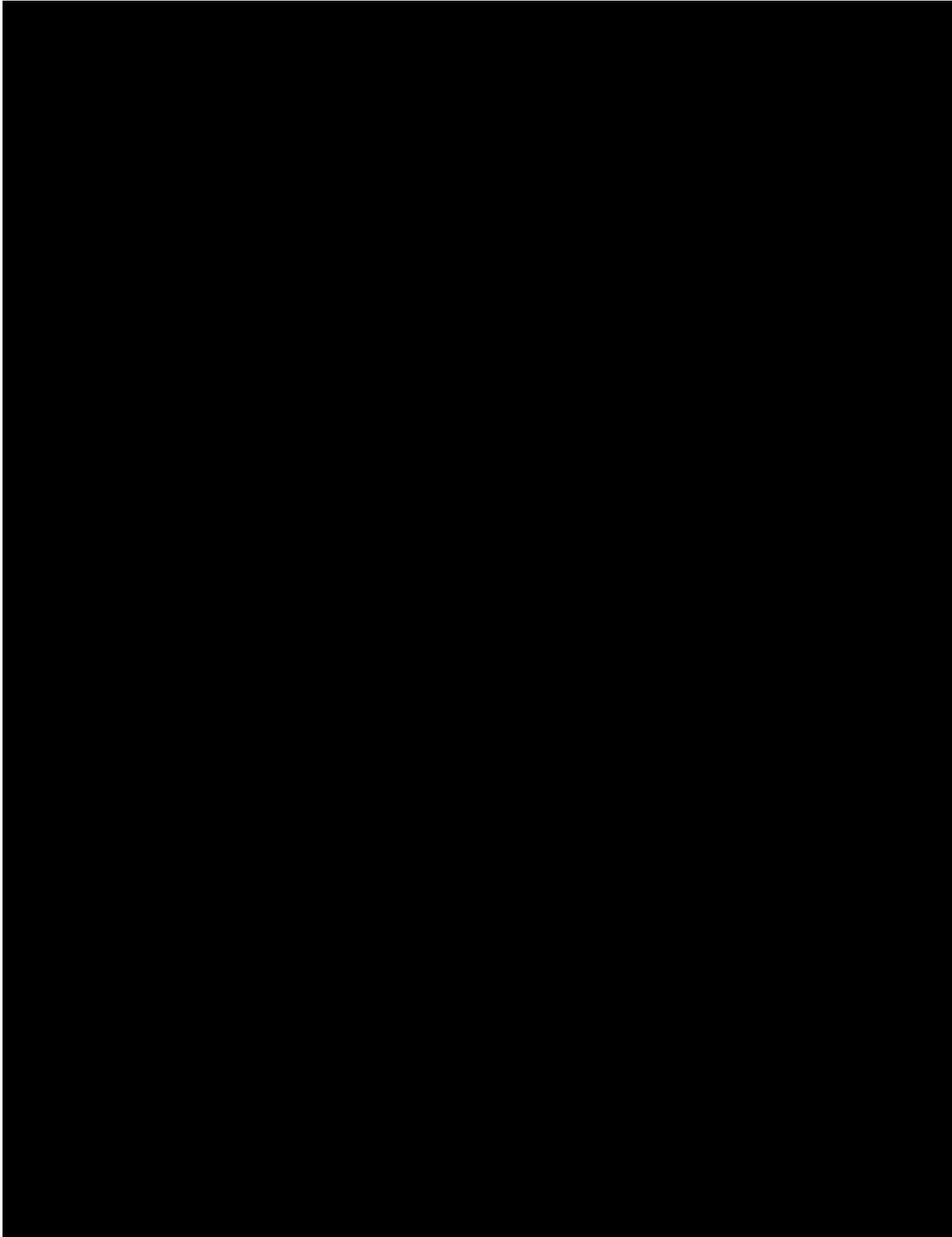
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 16 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 17 of 127

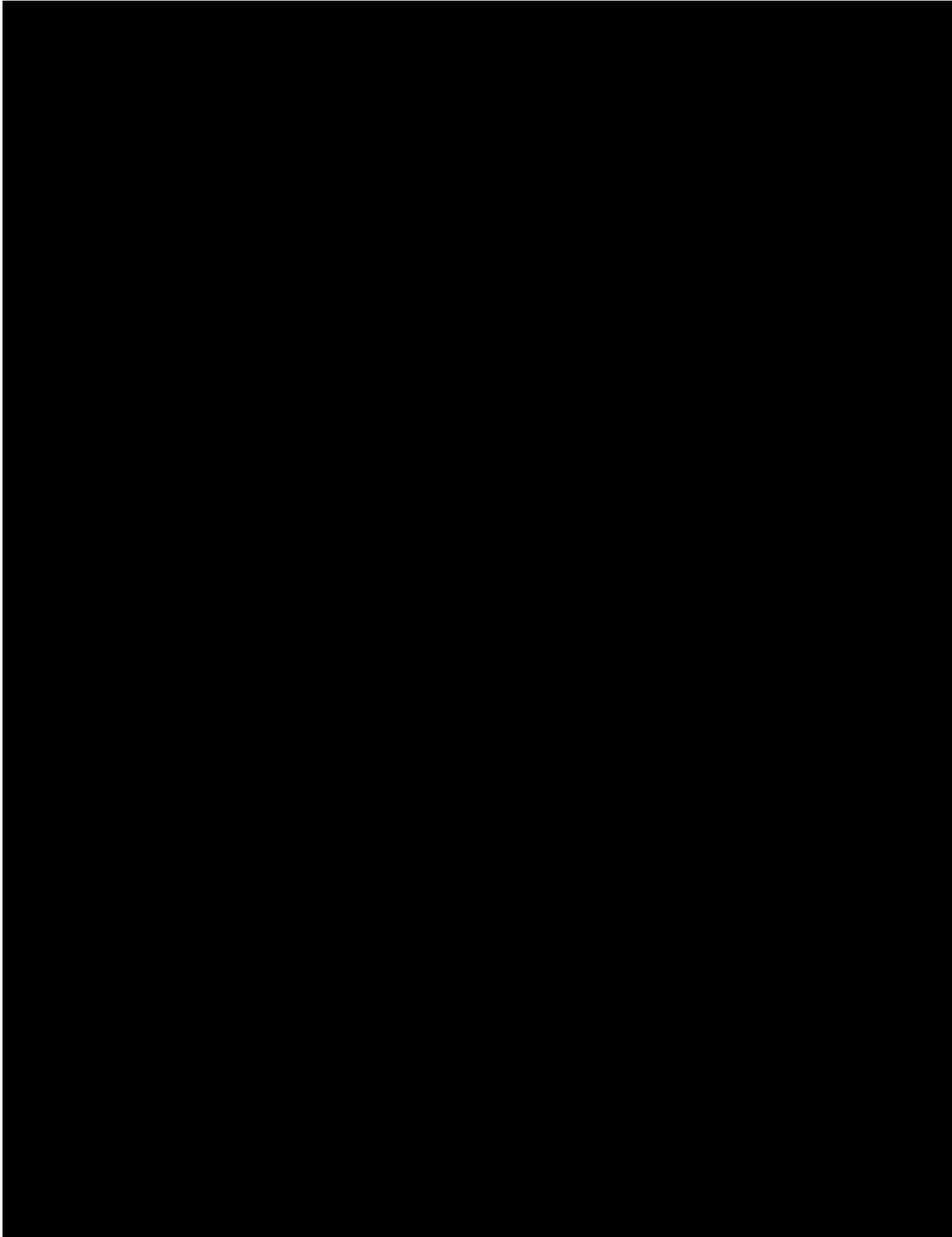
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 17 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 18 of 127

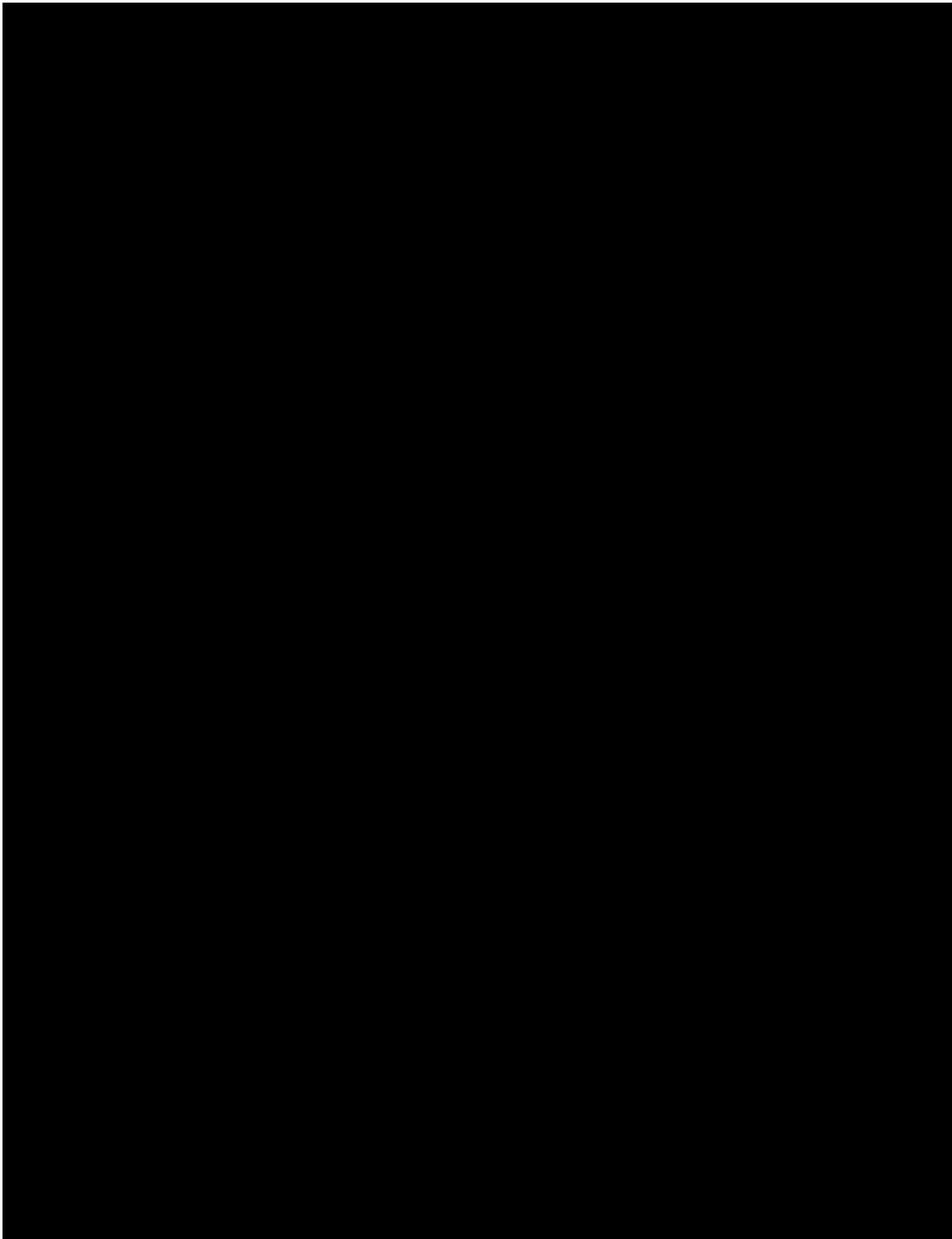
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 18 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 19 of 127

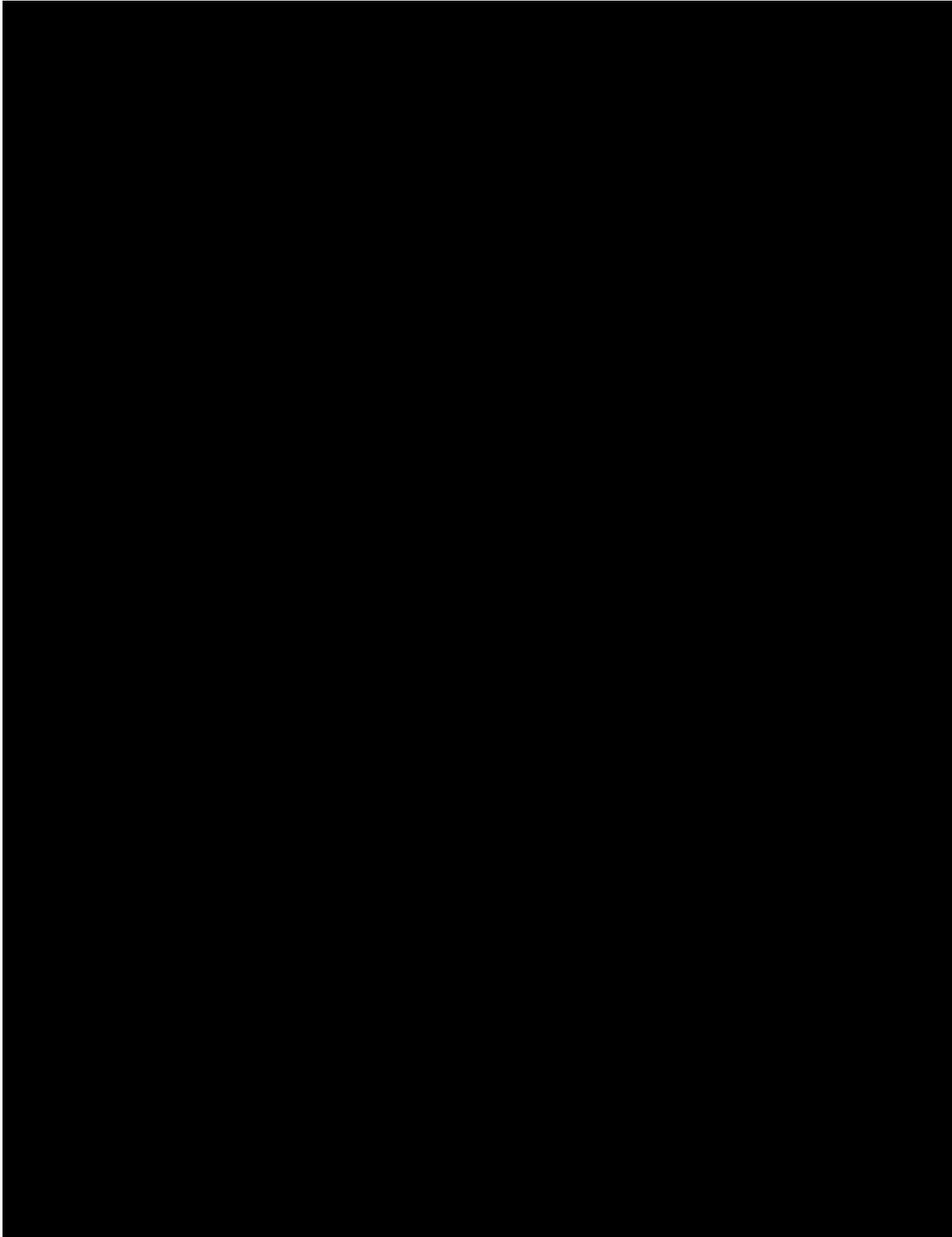
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 19 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 20 of 127

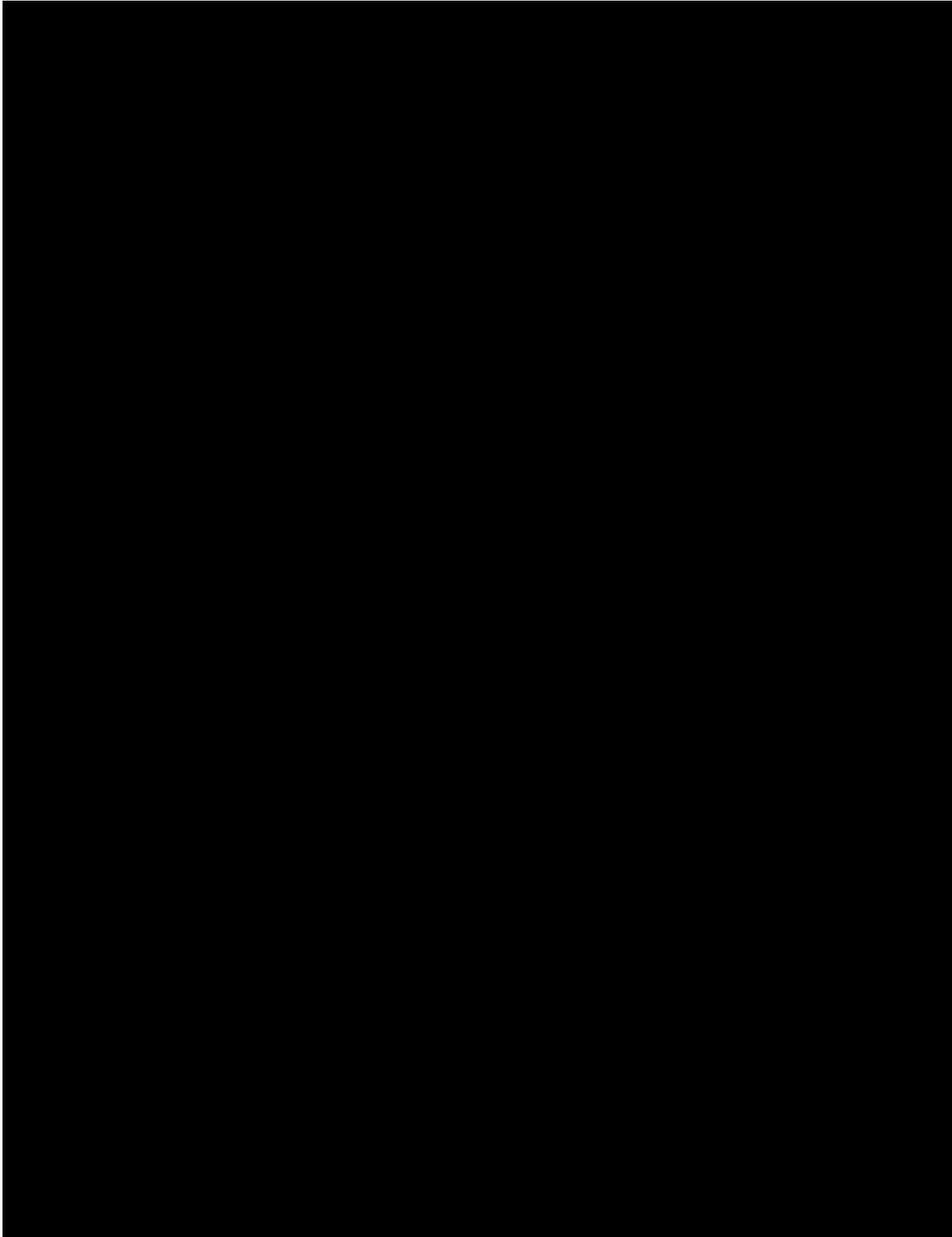
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 20 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 21 of 127

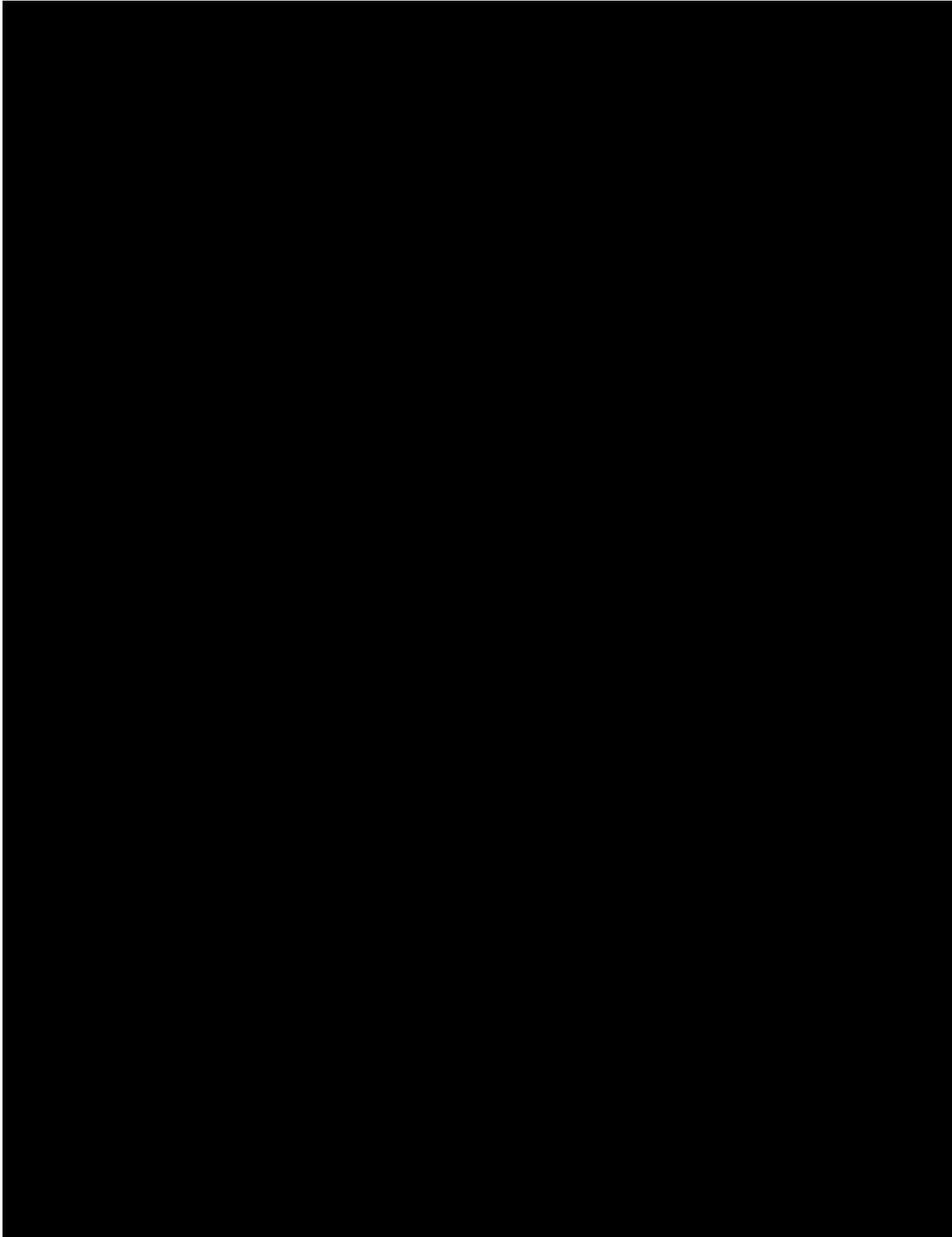
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 21 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 22 of 127

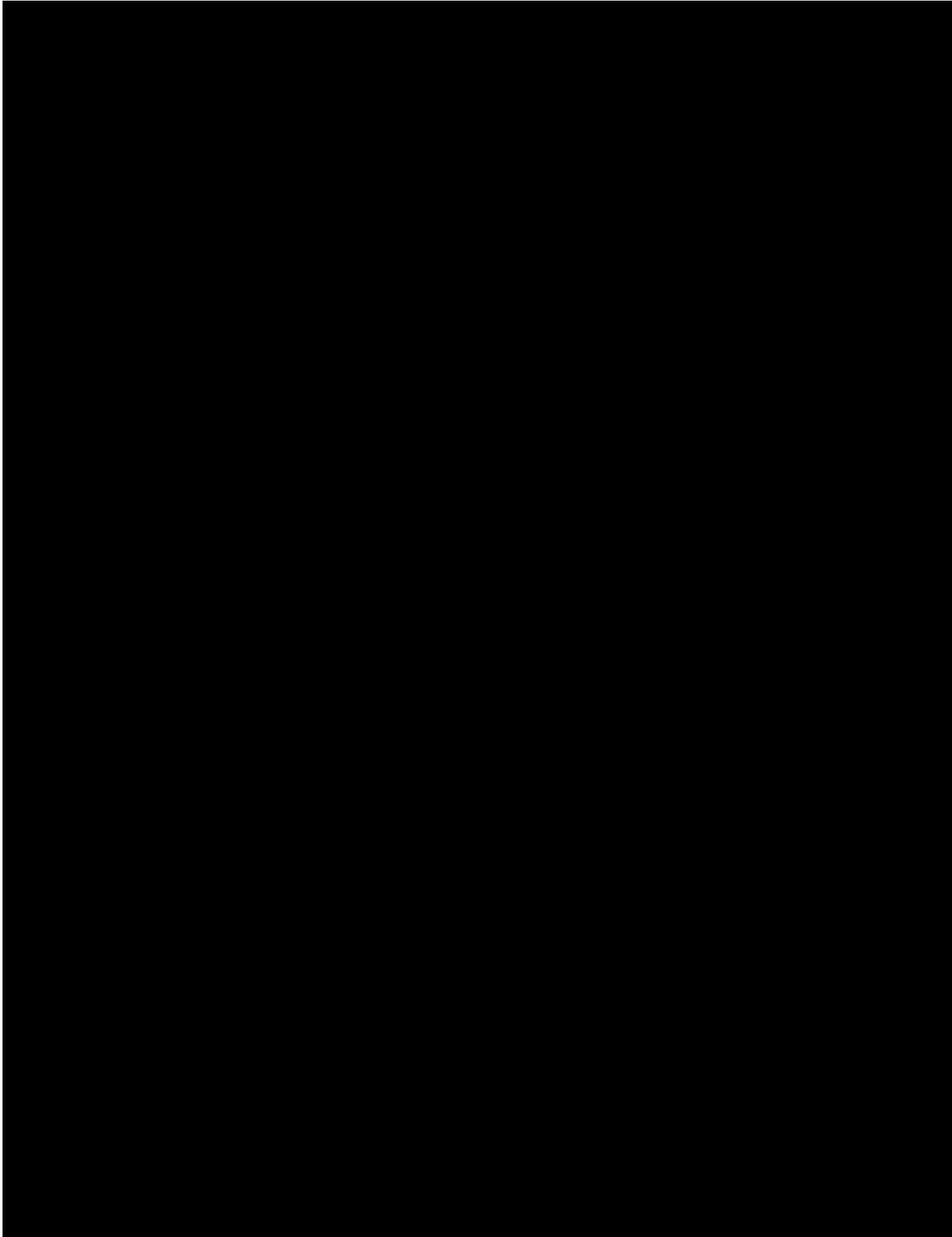
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 22 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 23 of 127

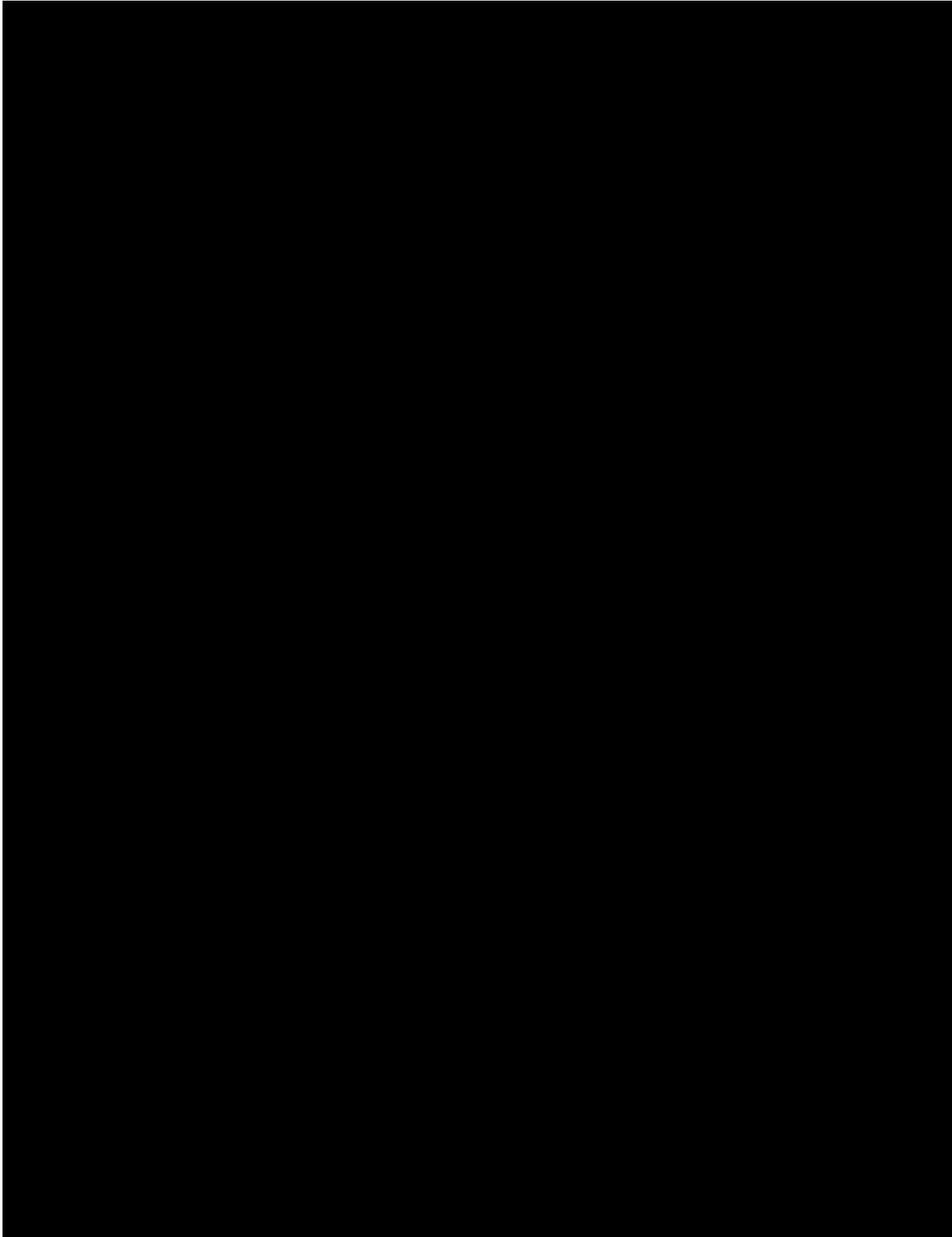
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 23 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 24 of 127

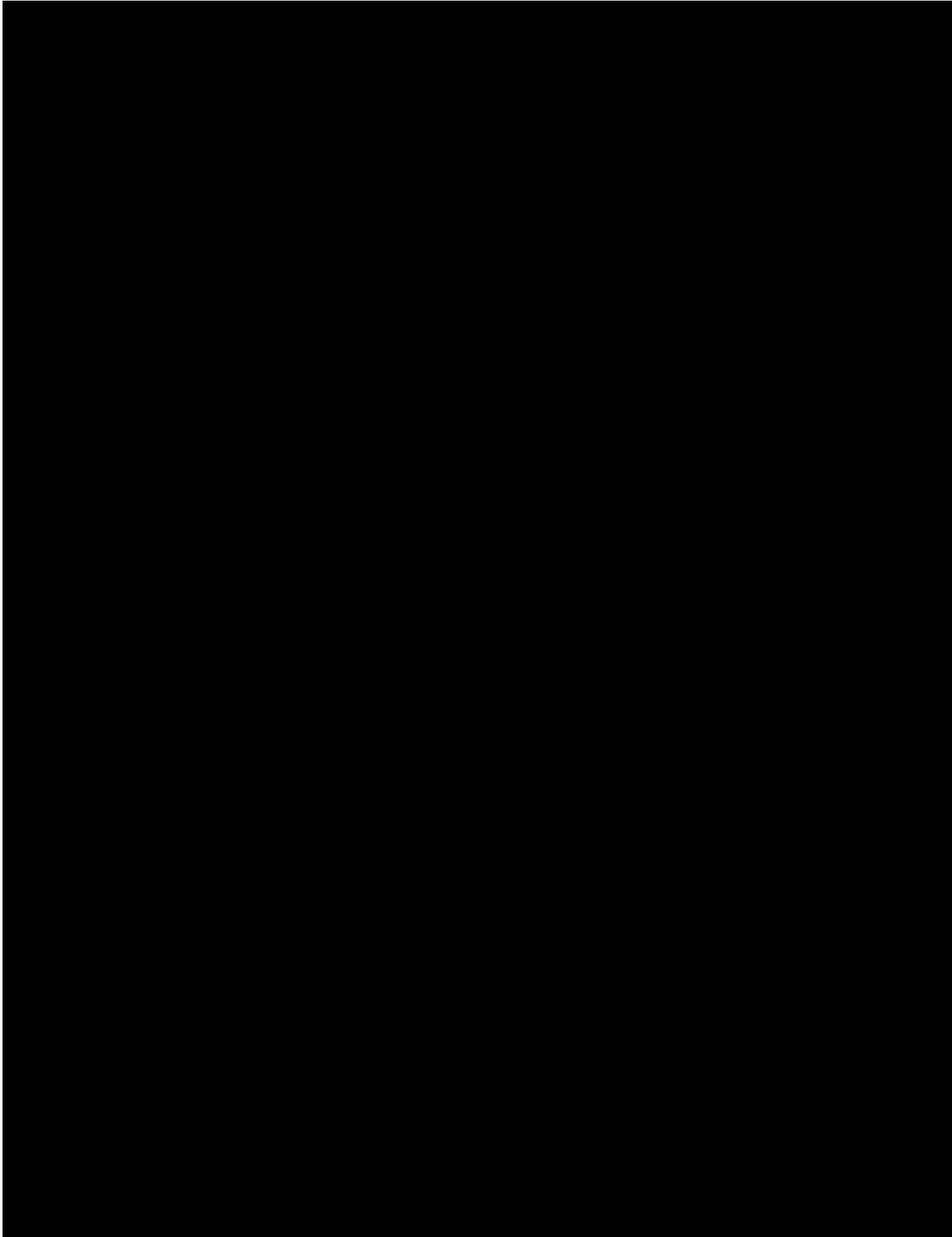
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 24 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 25 of 127

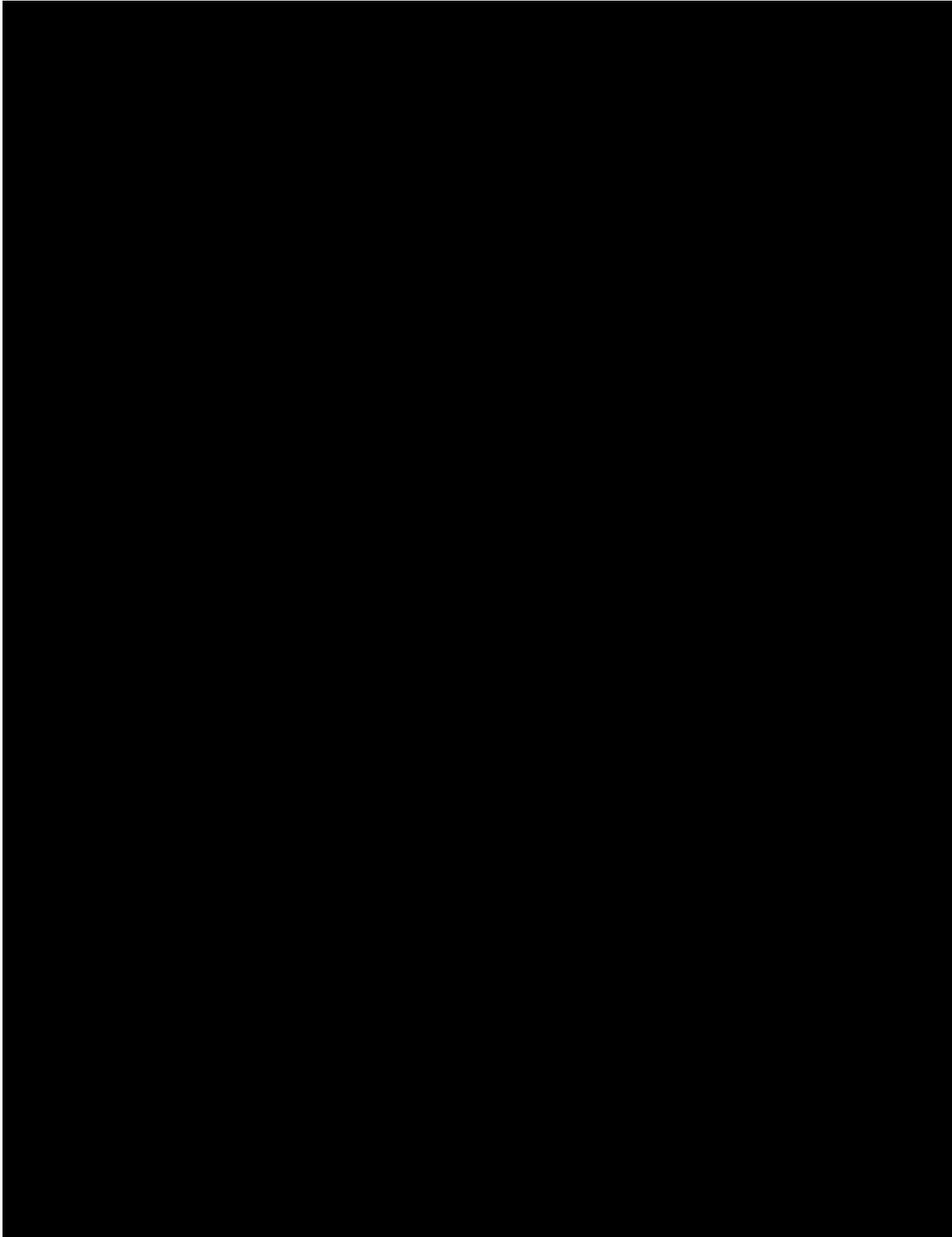
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 25 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 26 of 127

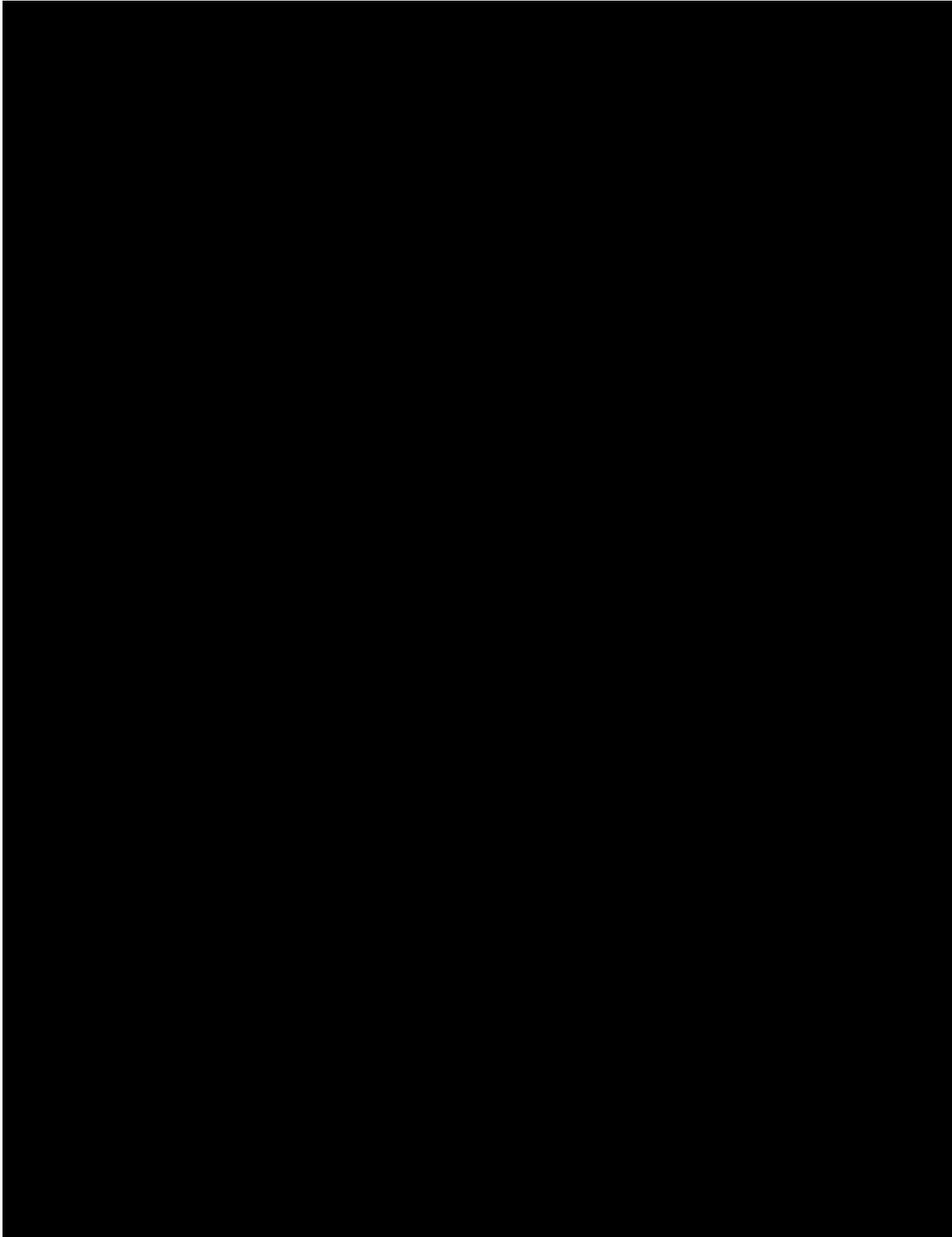
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 26 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 27 of 127

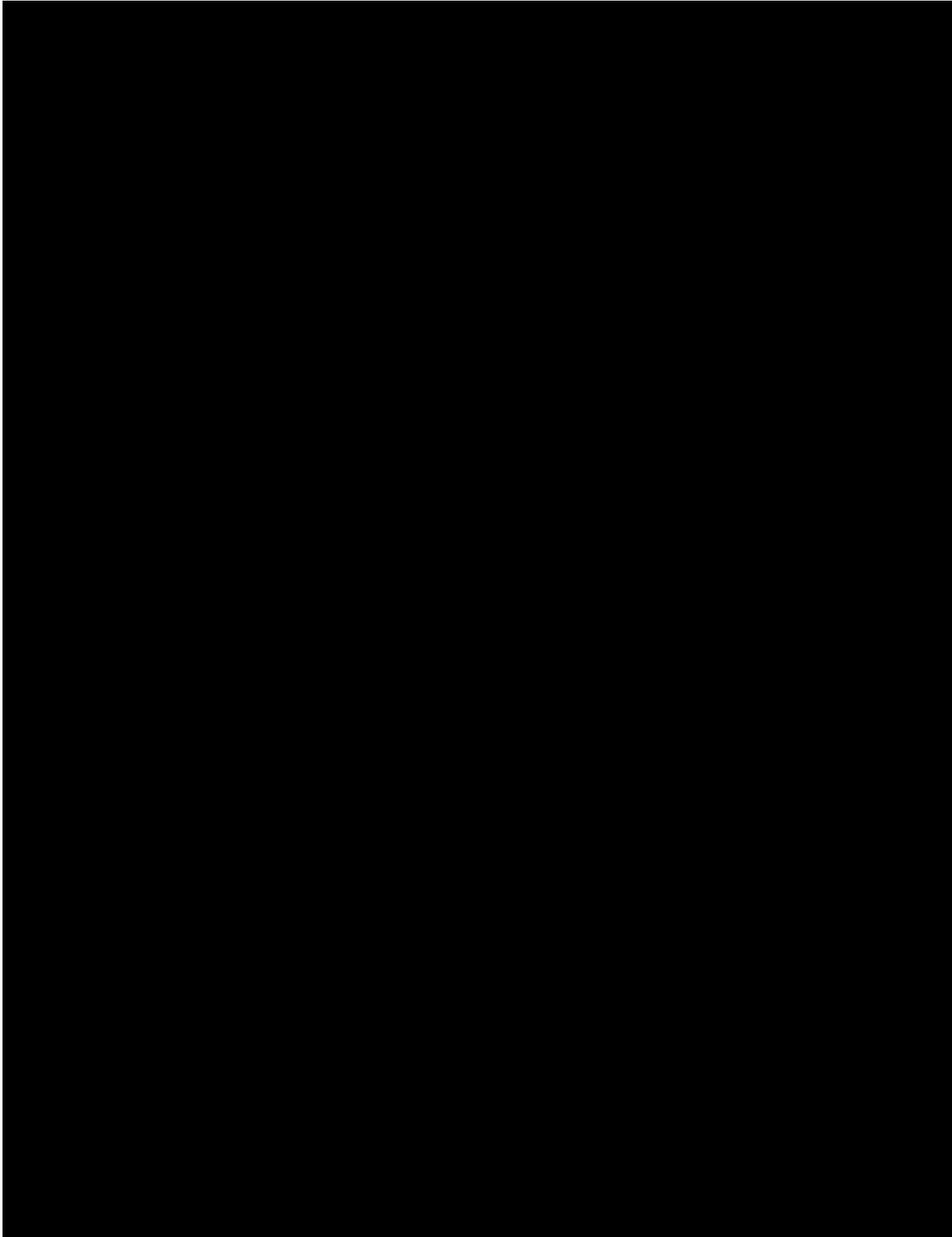
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 27 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 28 of 127

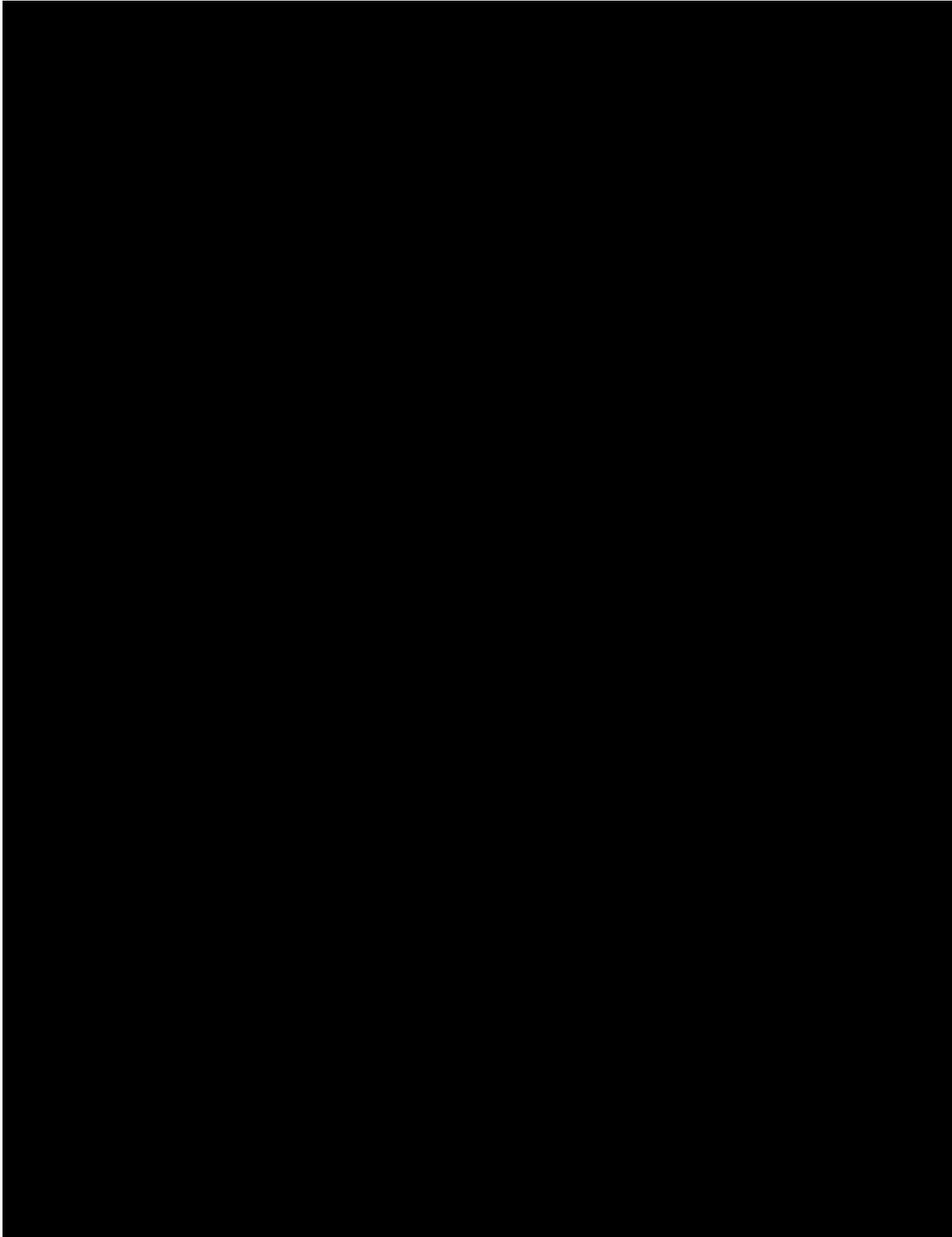
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 28 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 29 of 127

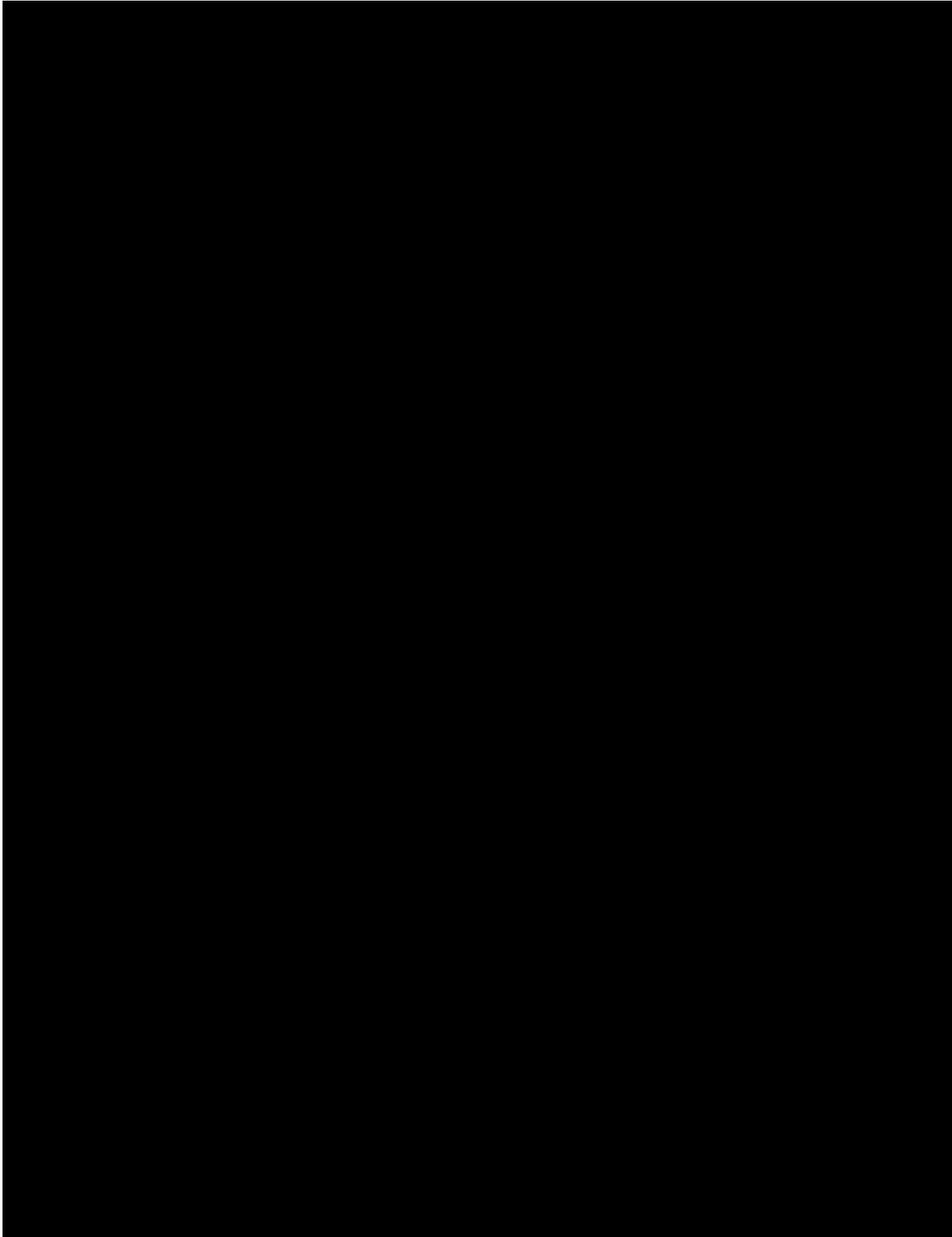
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 29 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 30 of 127

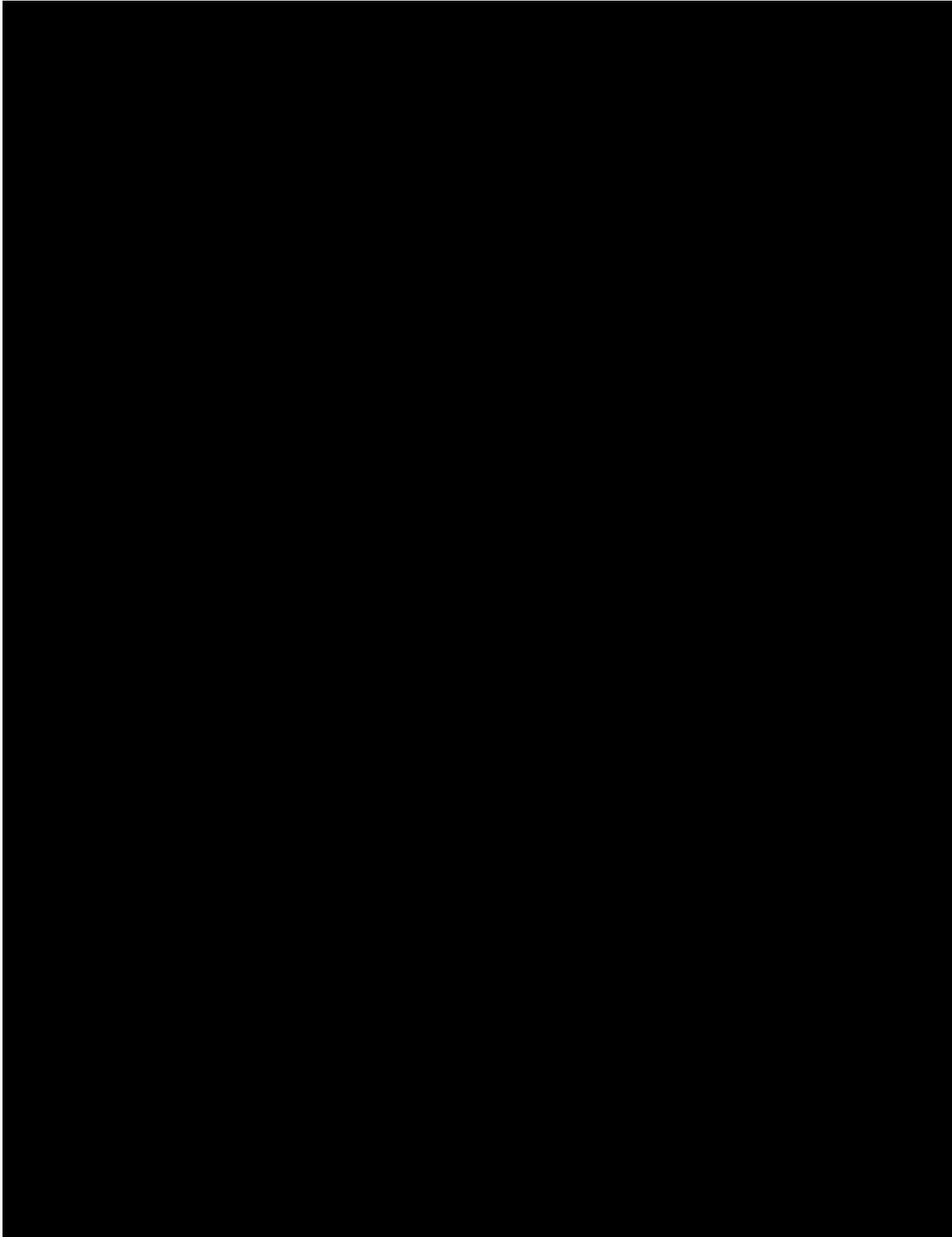
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 30 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 31 of 127

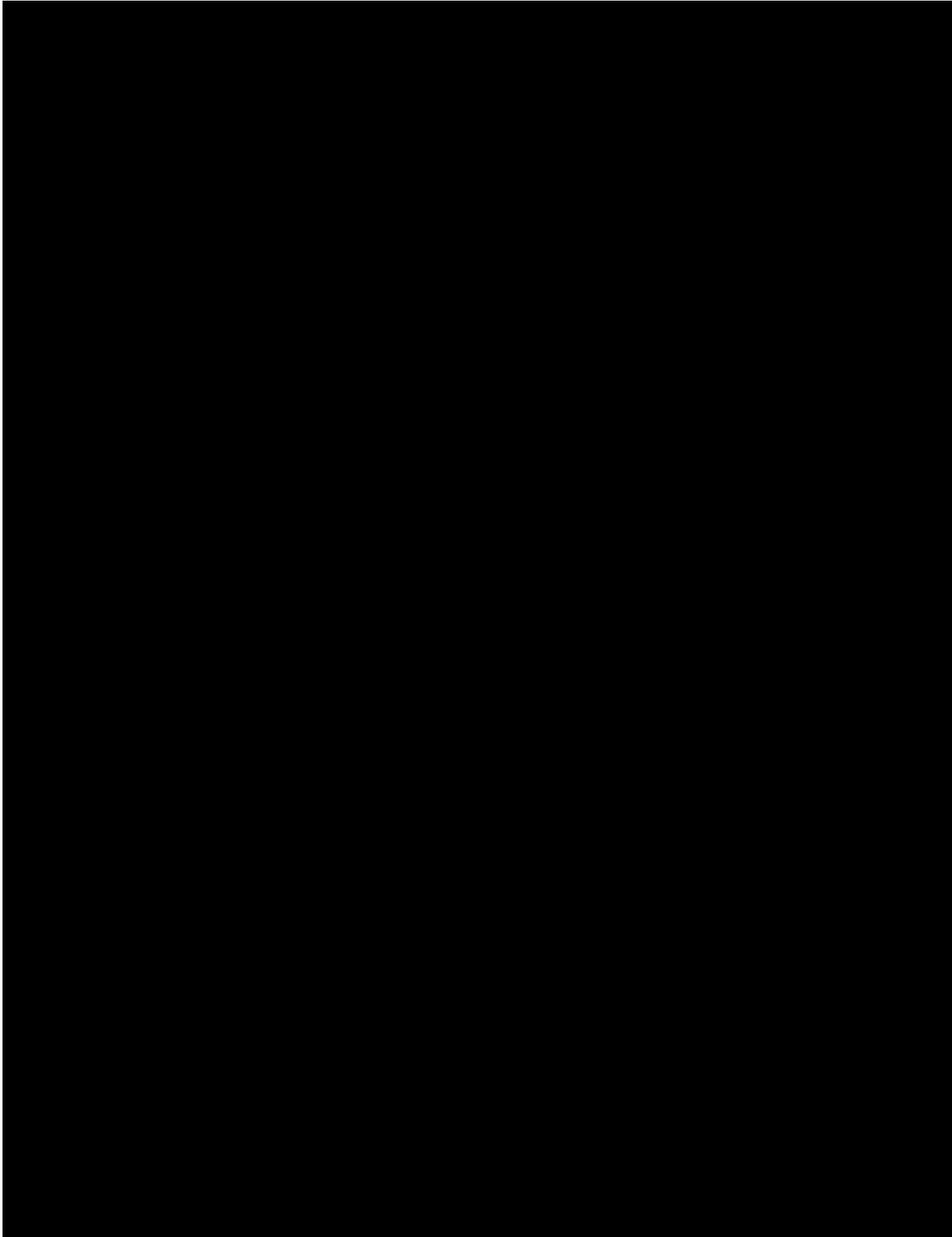
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 31 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 32 of 127

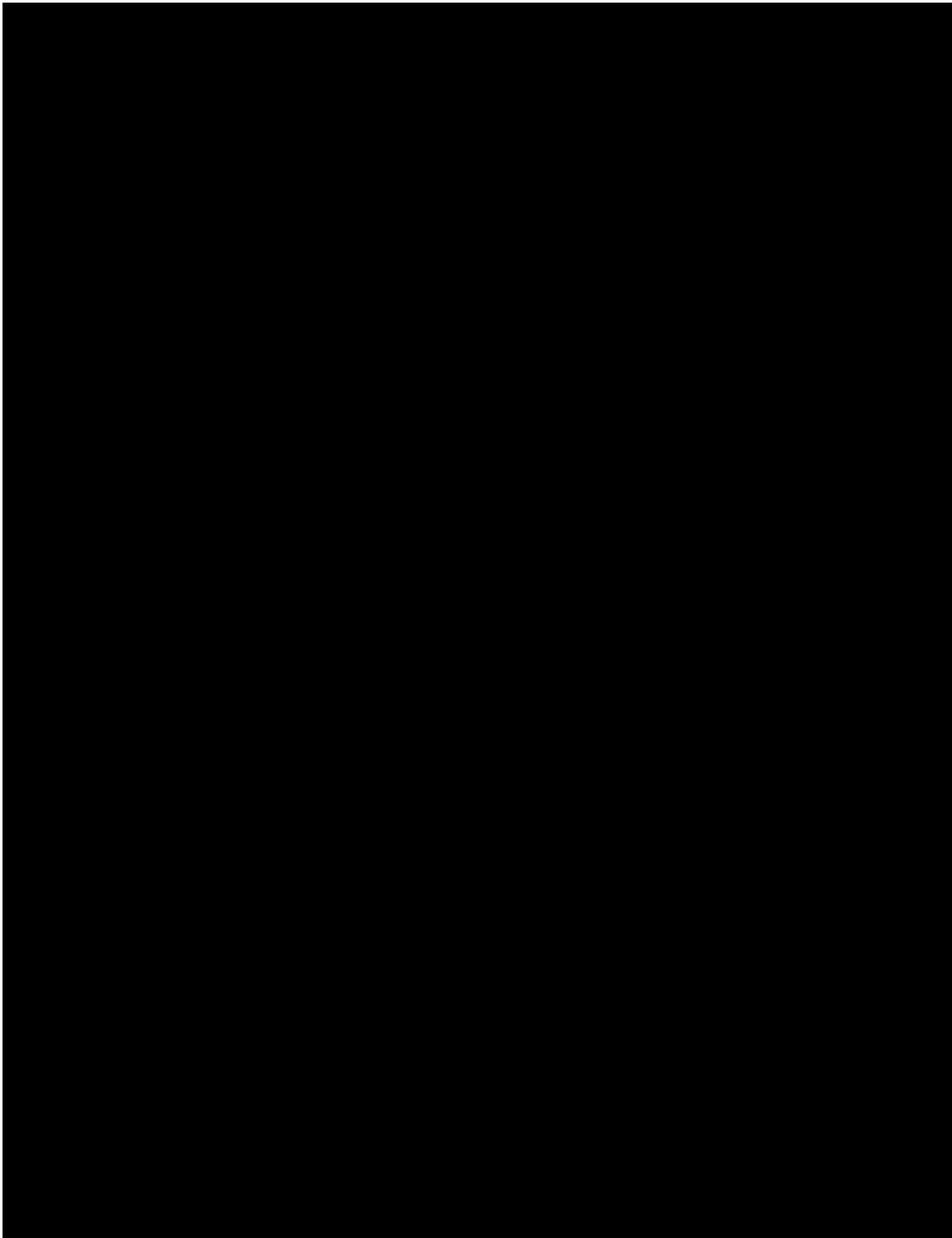
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 32 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 33 of 127

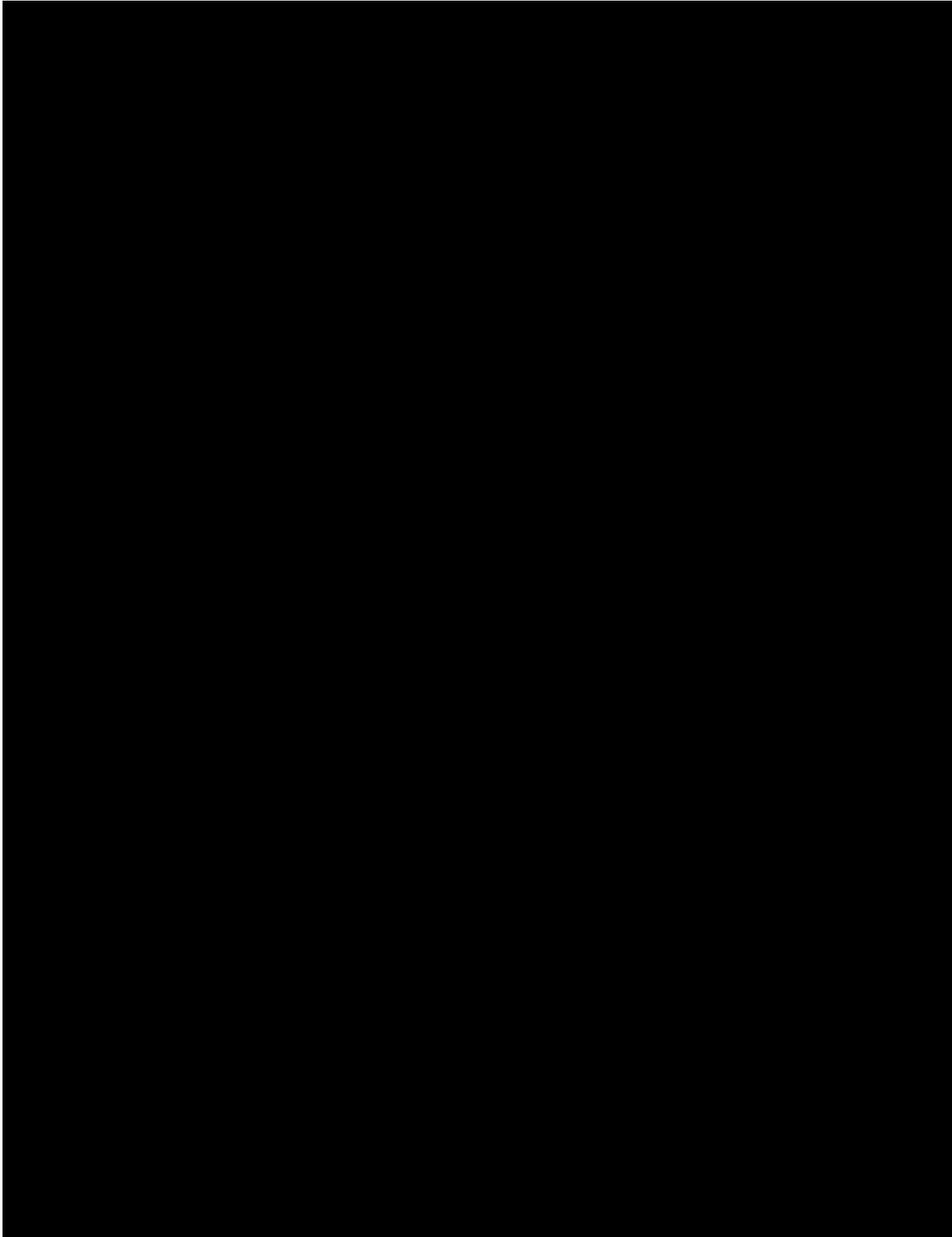
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 33 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 34 of 127

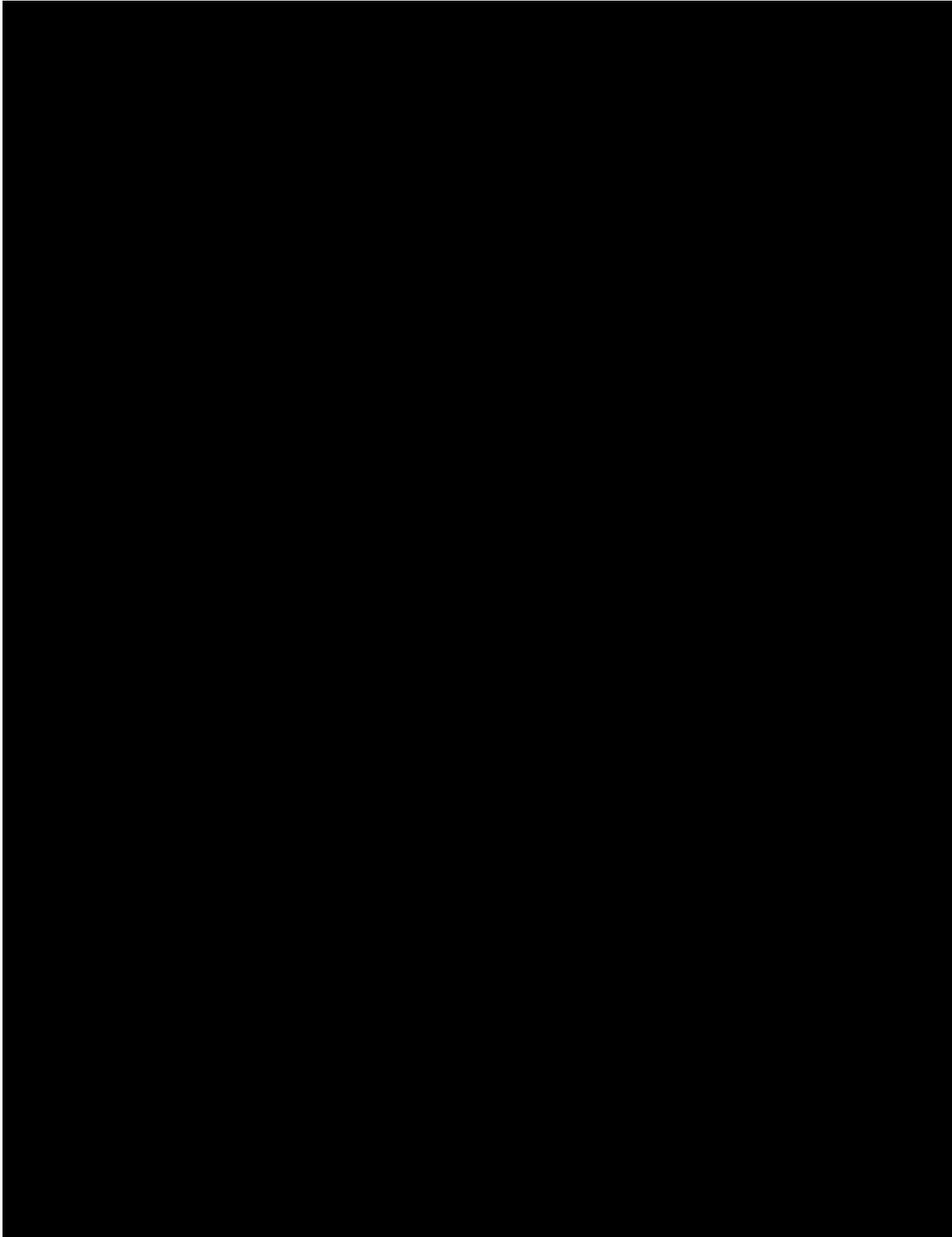
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 34 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 35 of 127

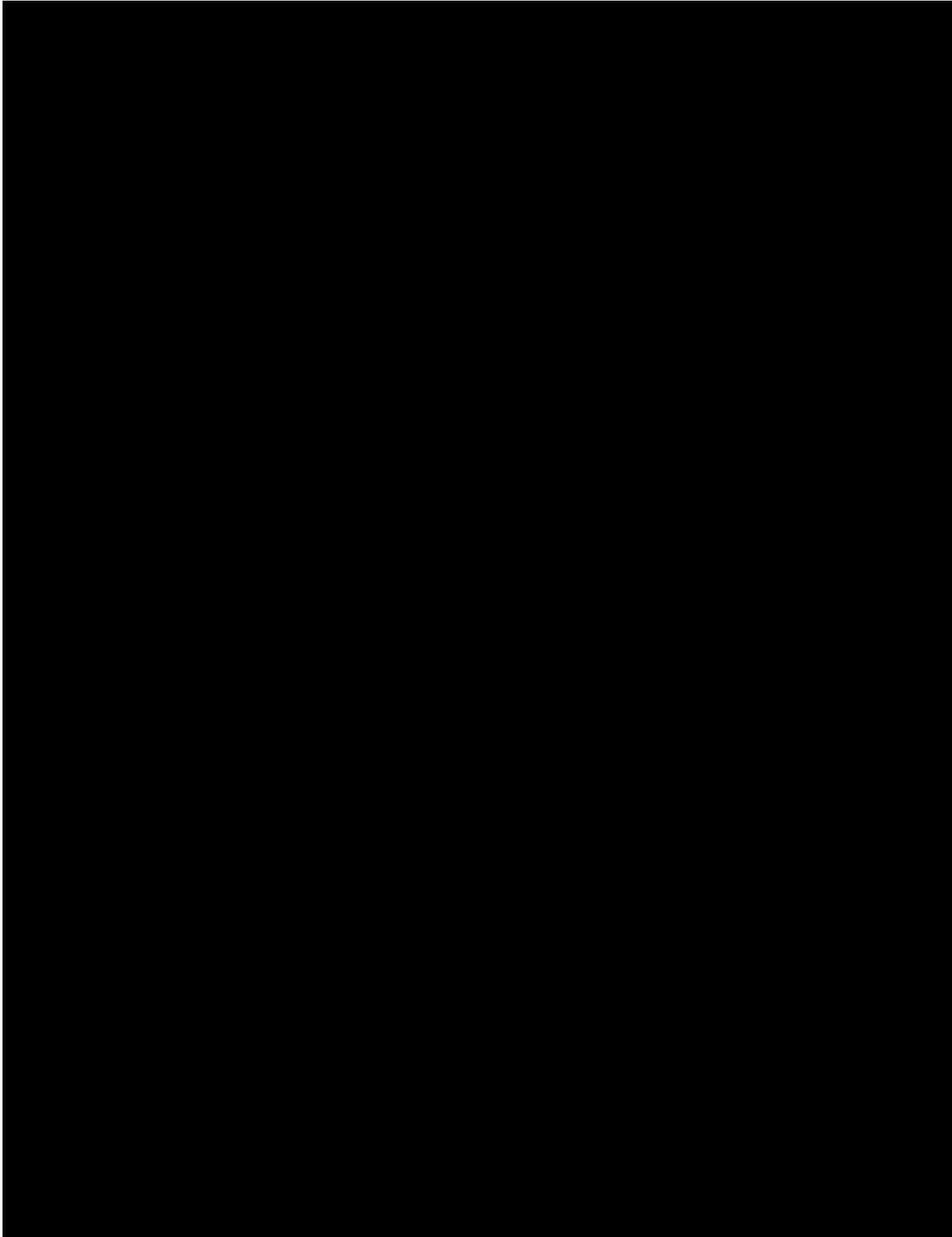
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 35 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 36 of 127

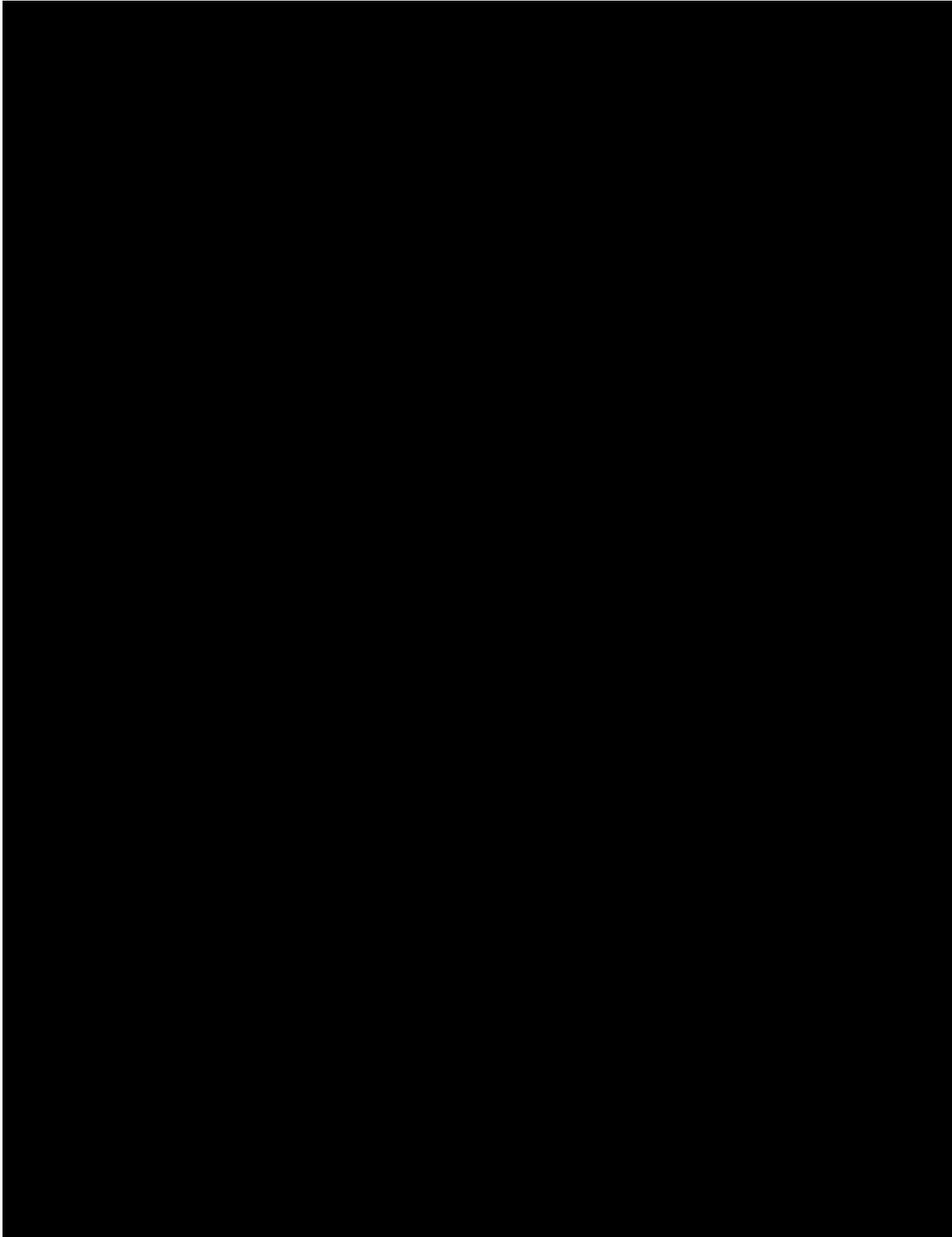
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 36 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 37 of 127

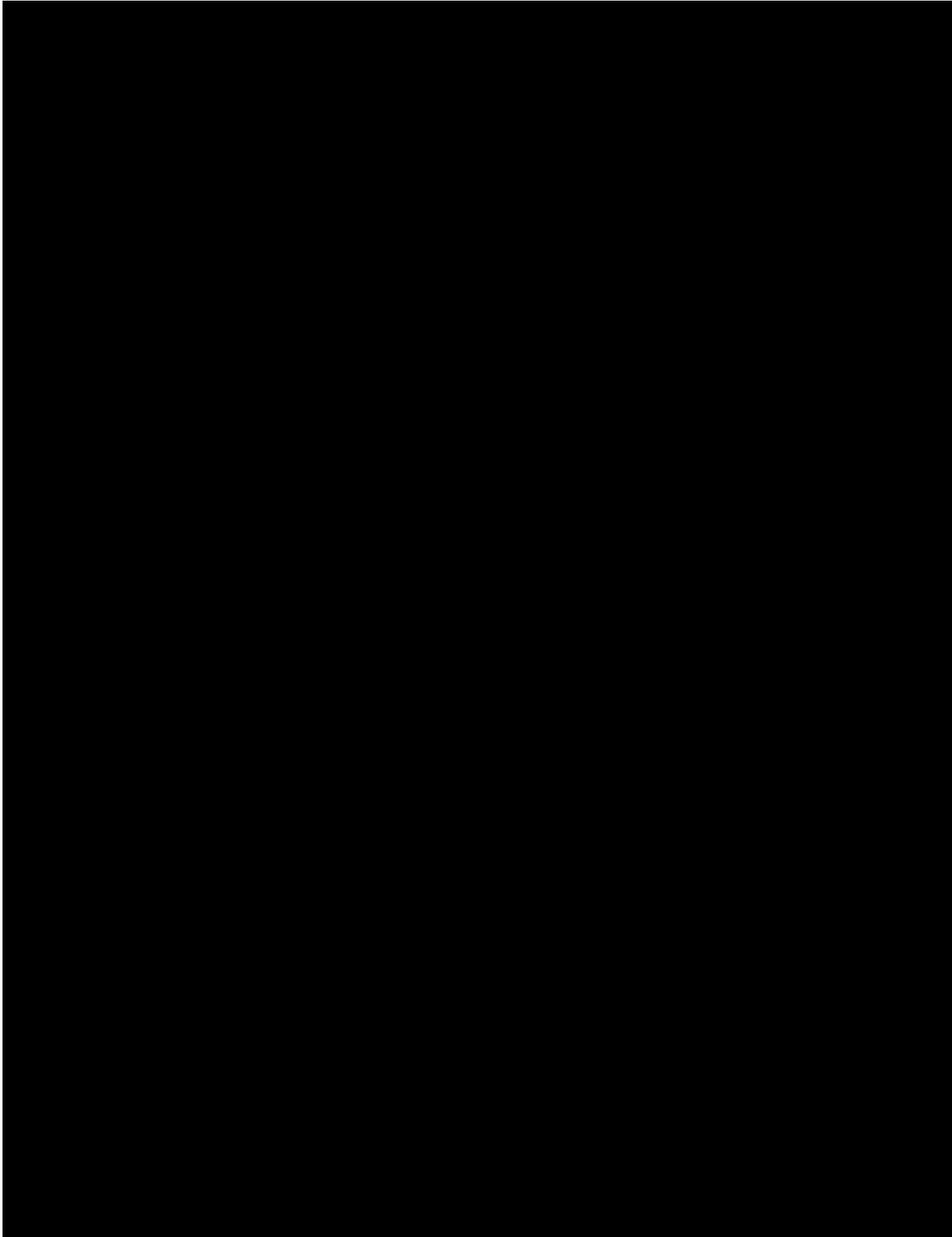
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 37 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 38 of 127

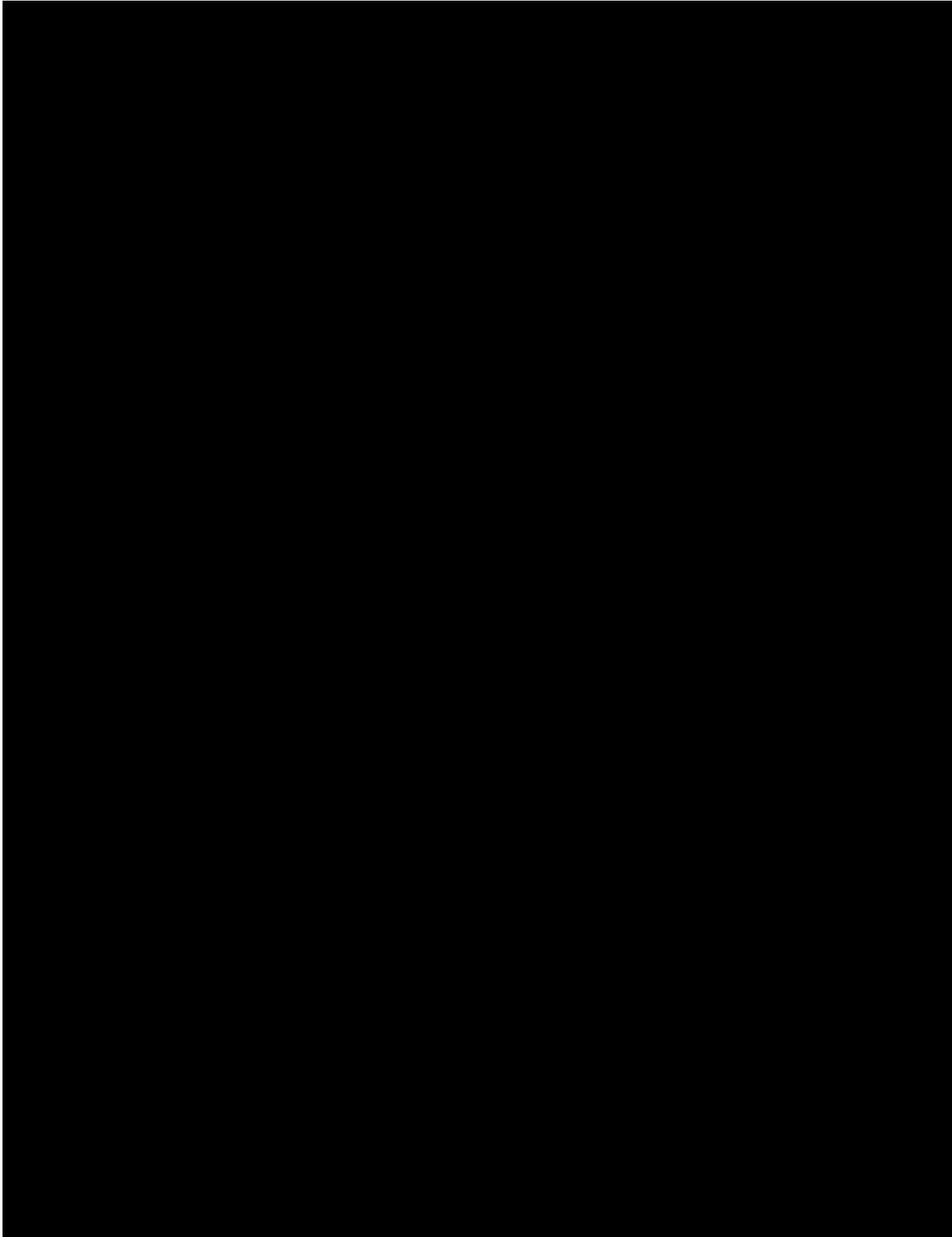
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 38 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 39 of 127

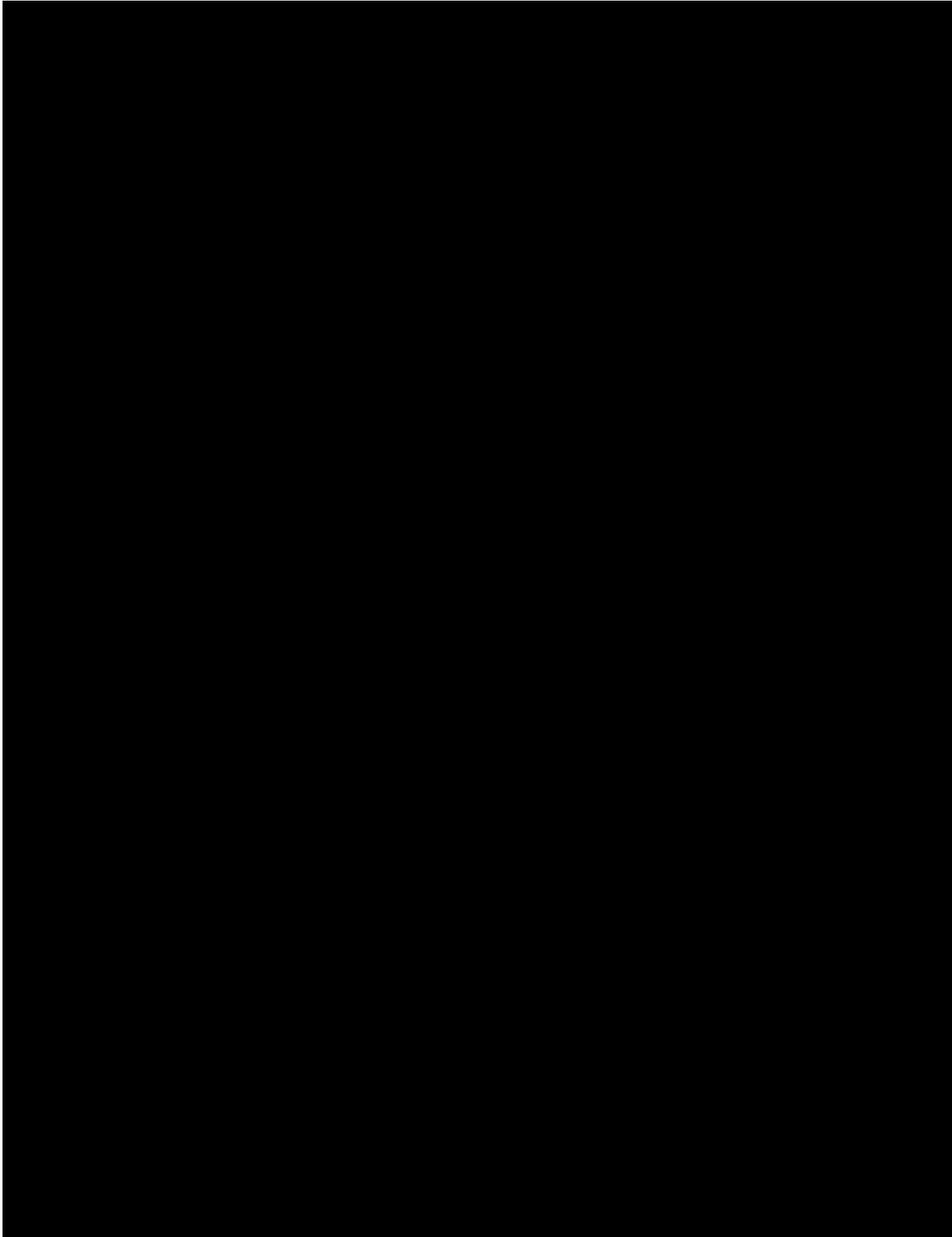
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 39 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 40 of 127

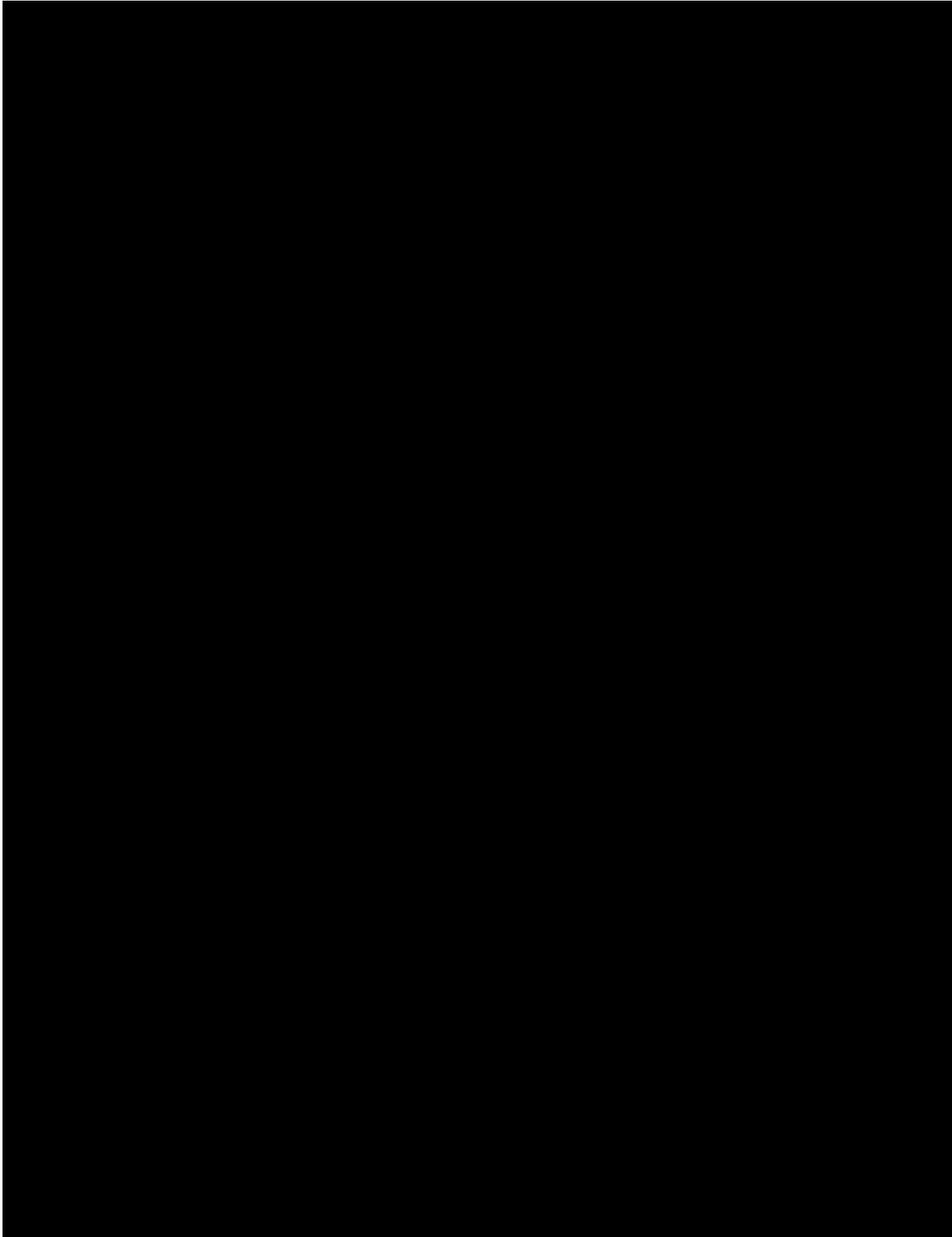
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 40 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 41 of 127

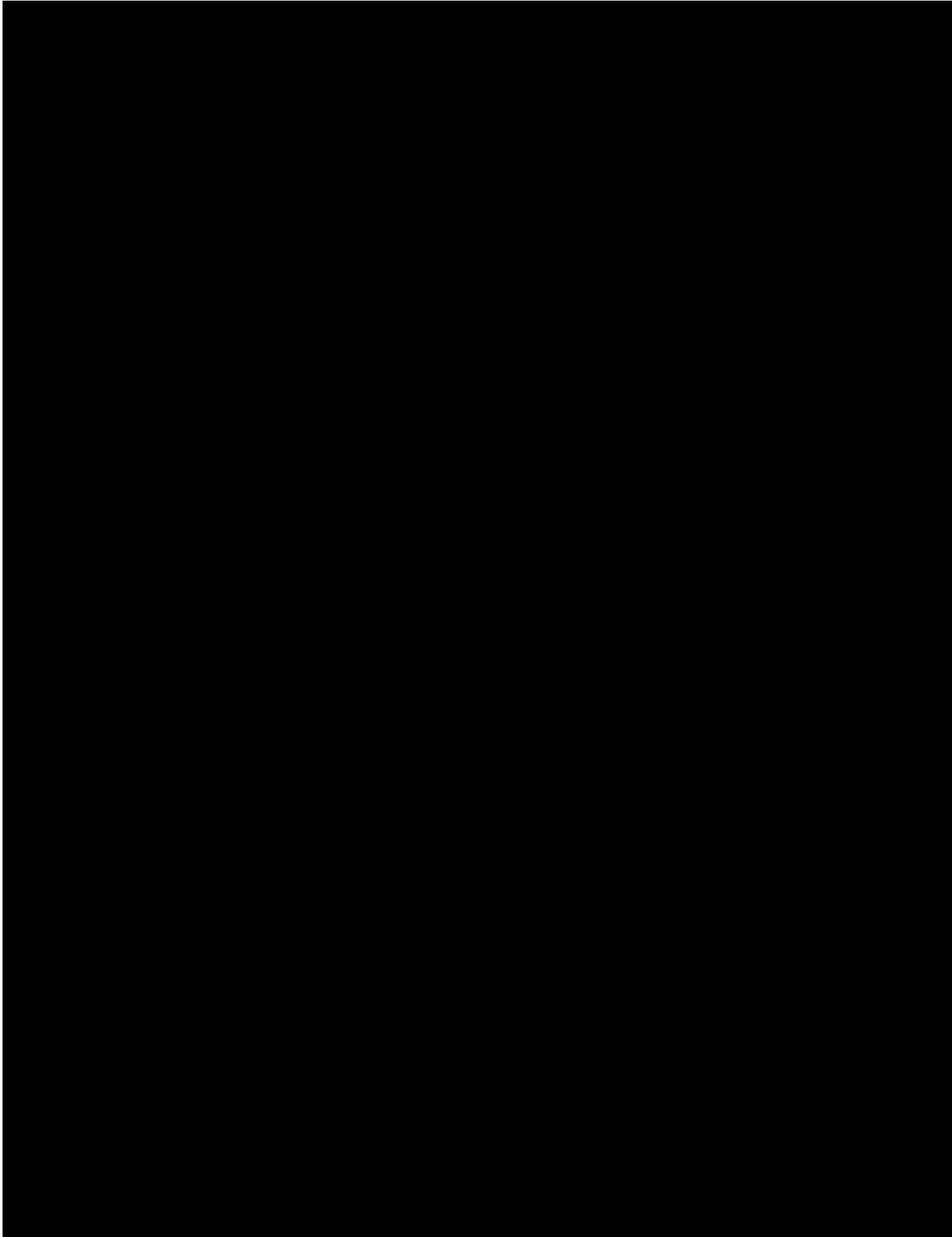
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 41 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 42 of 127

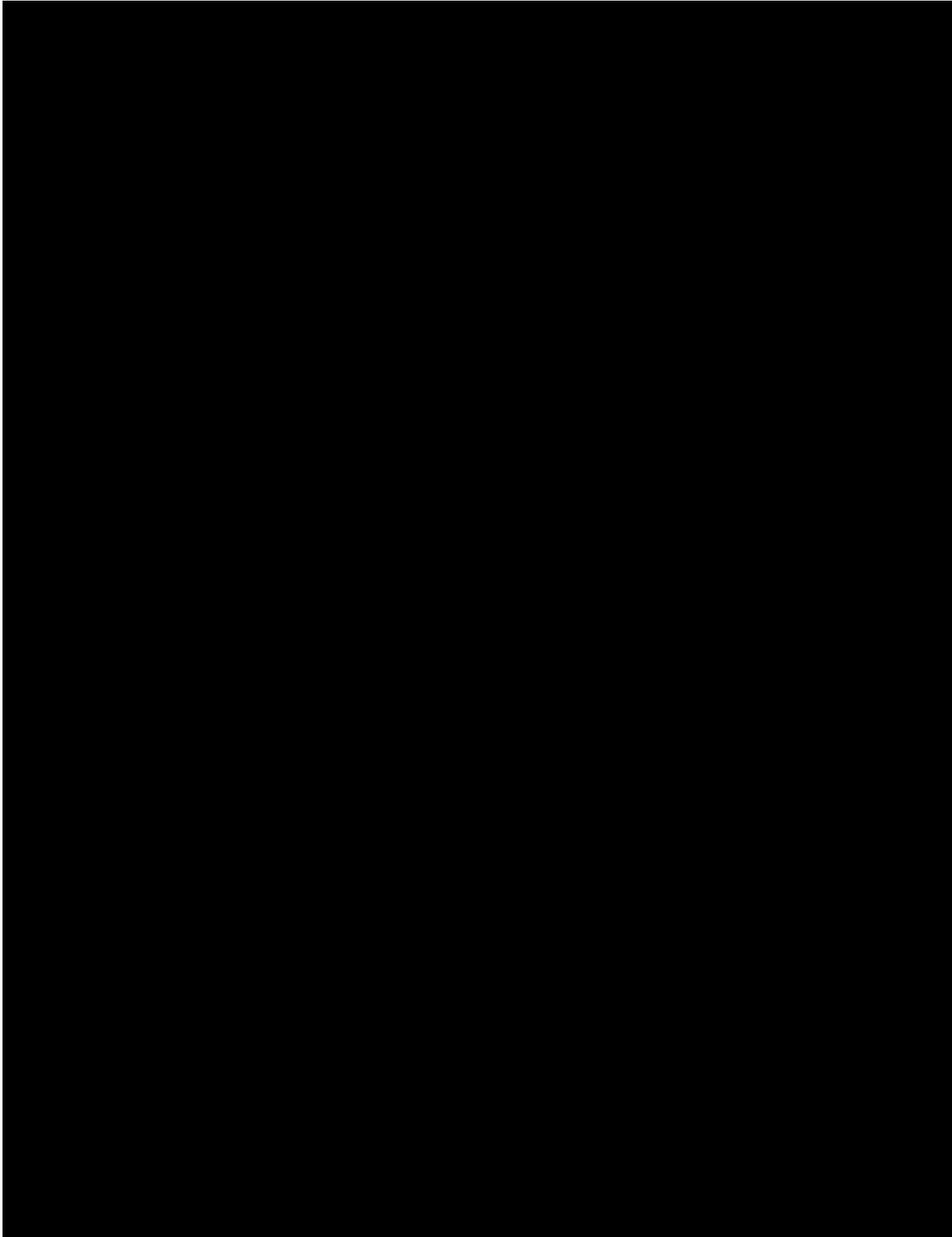
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 42 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 43 of 127

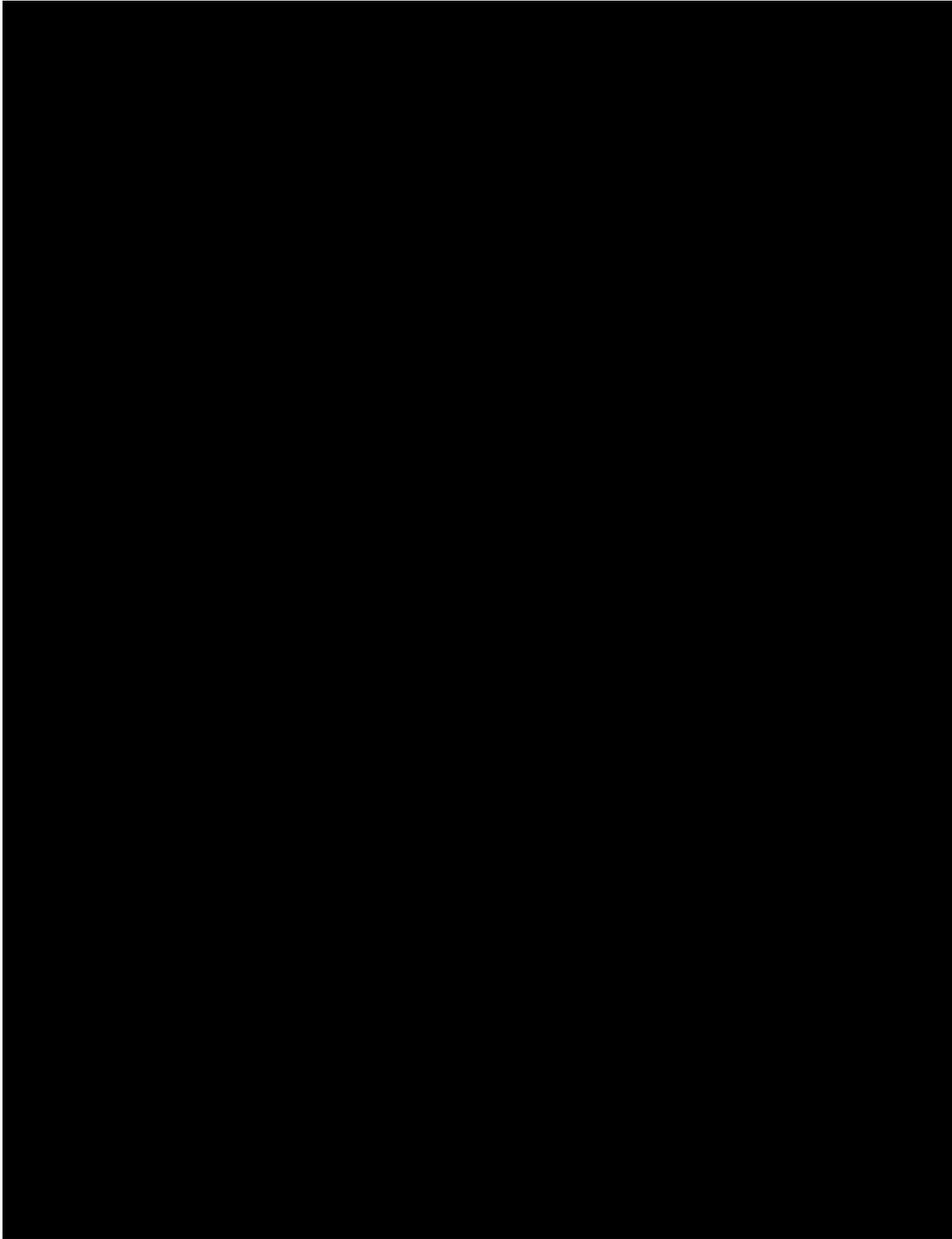
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 43 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 44 of 127

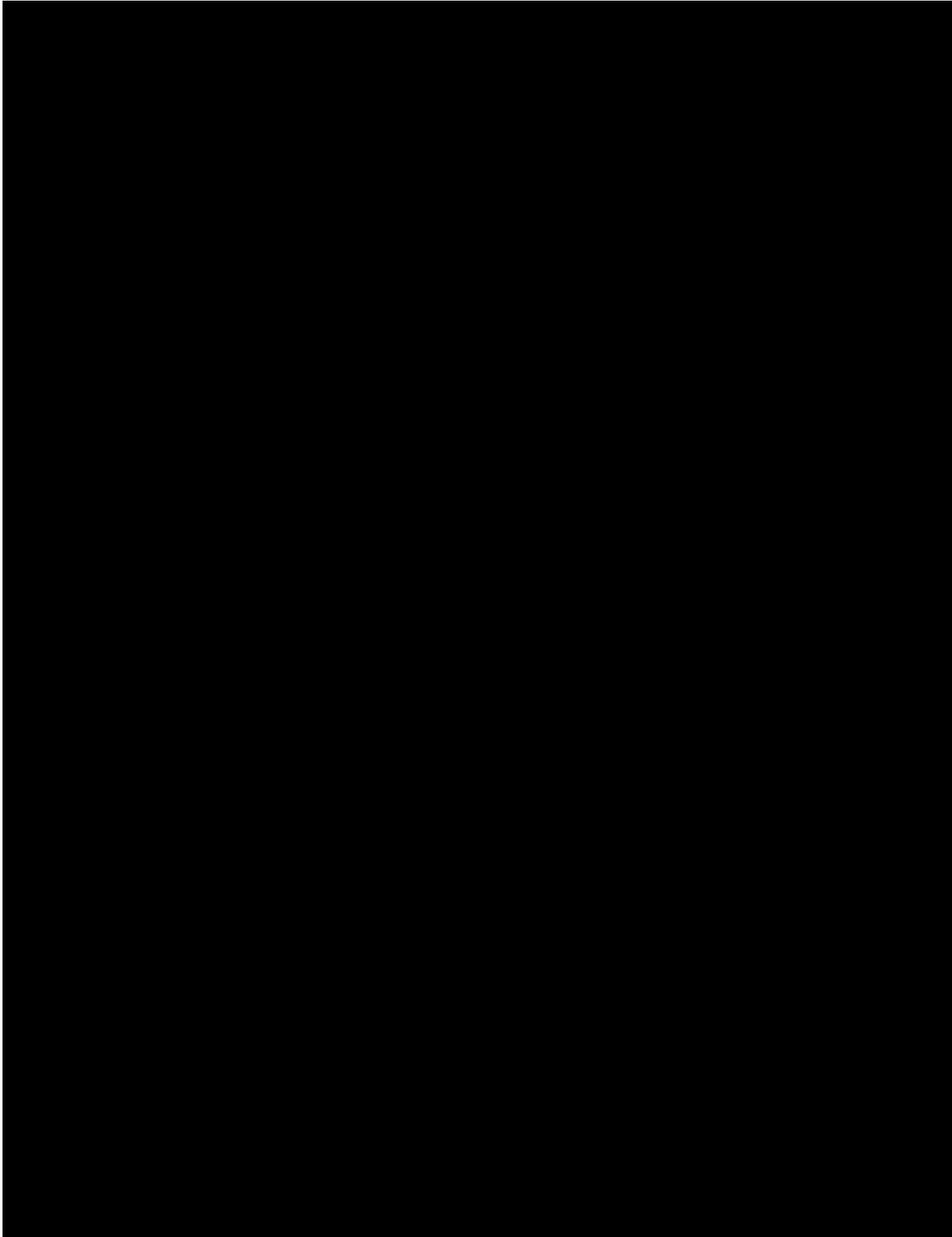
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 44 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 45 of 127

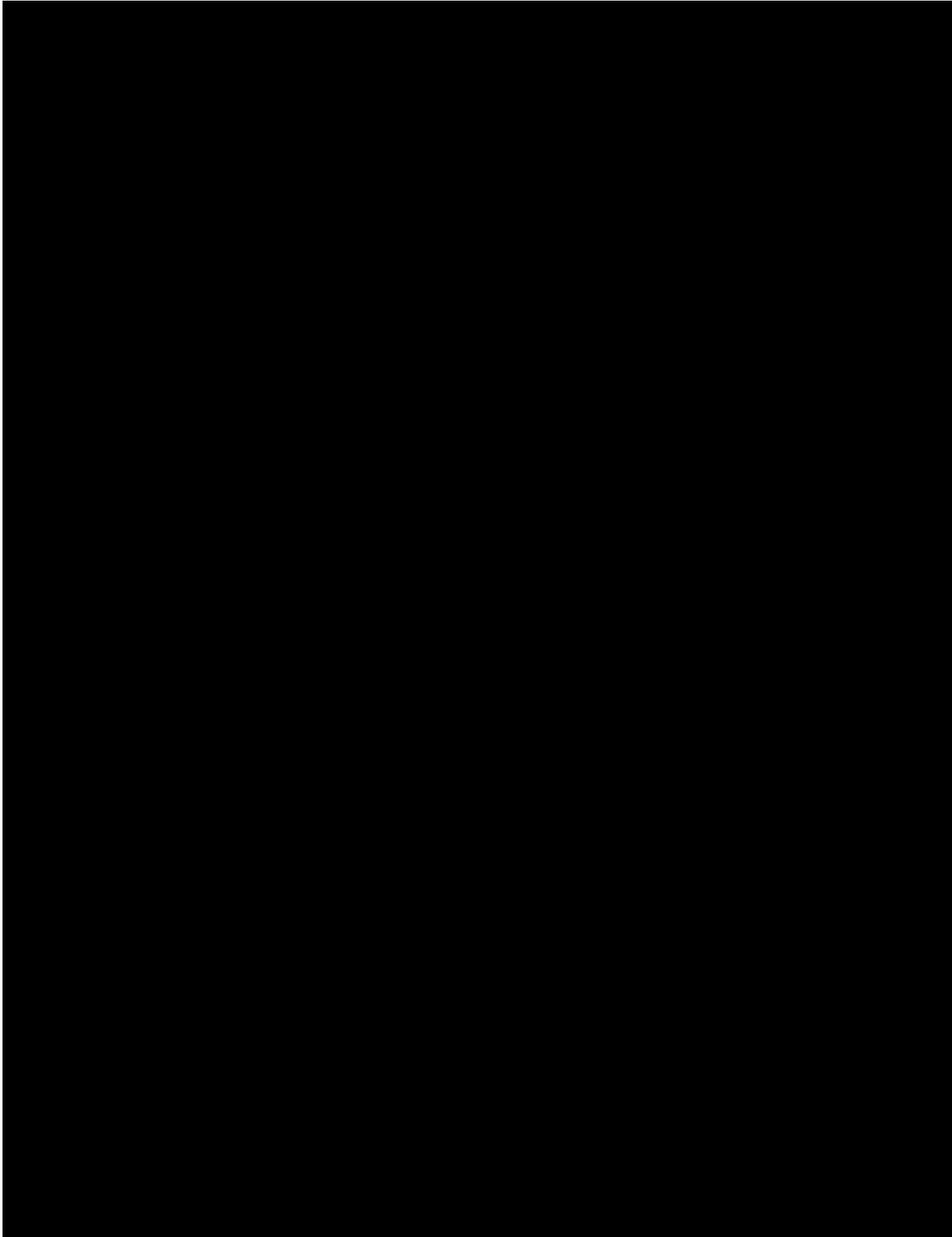
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 45 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 46 of 127

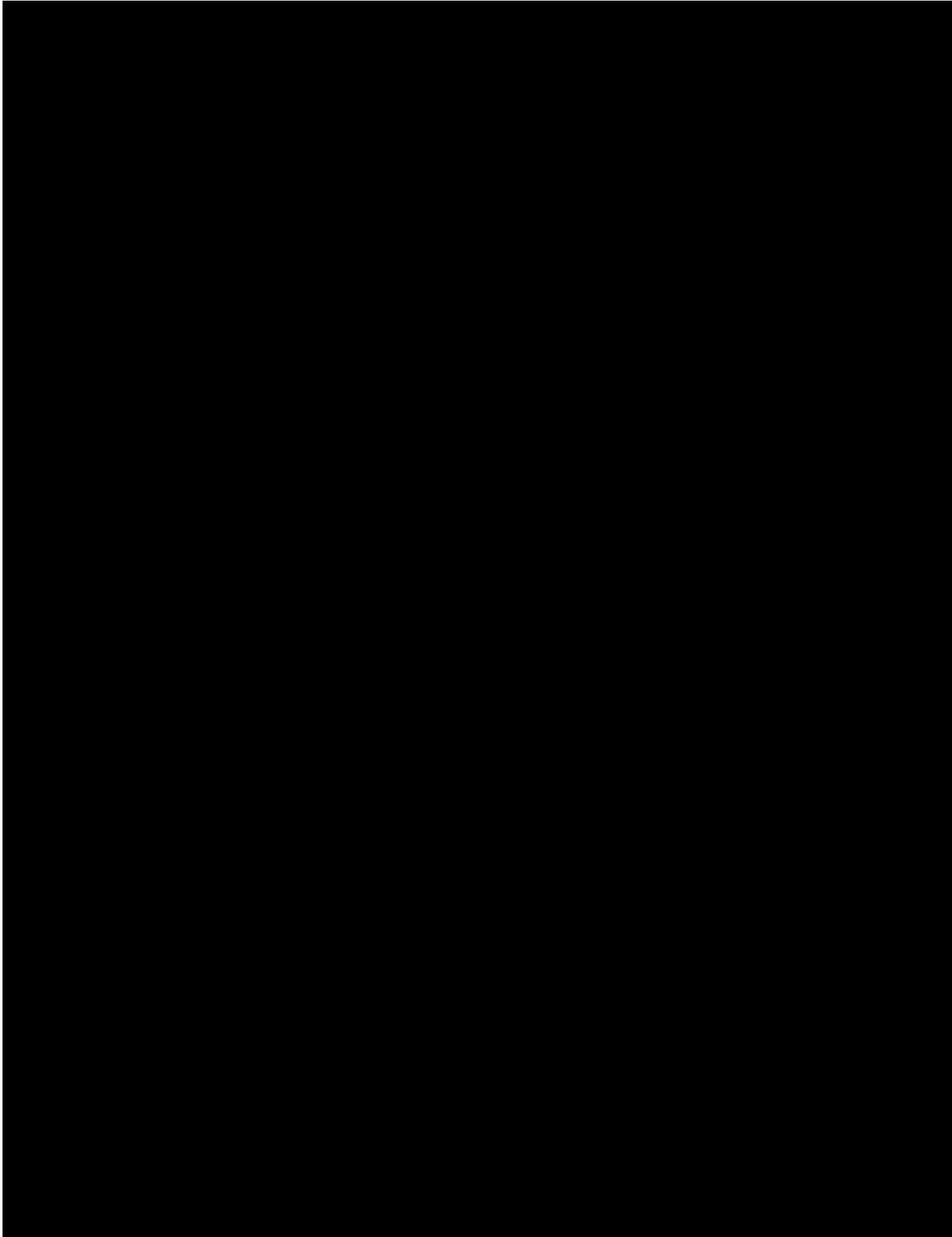
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 46 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 47 of 127

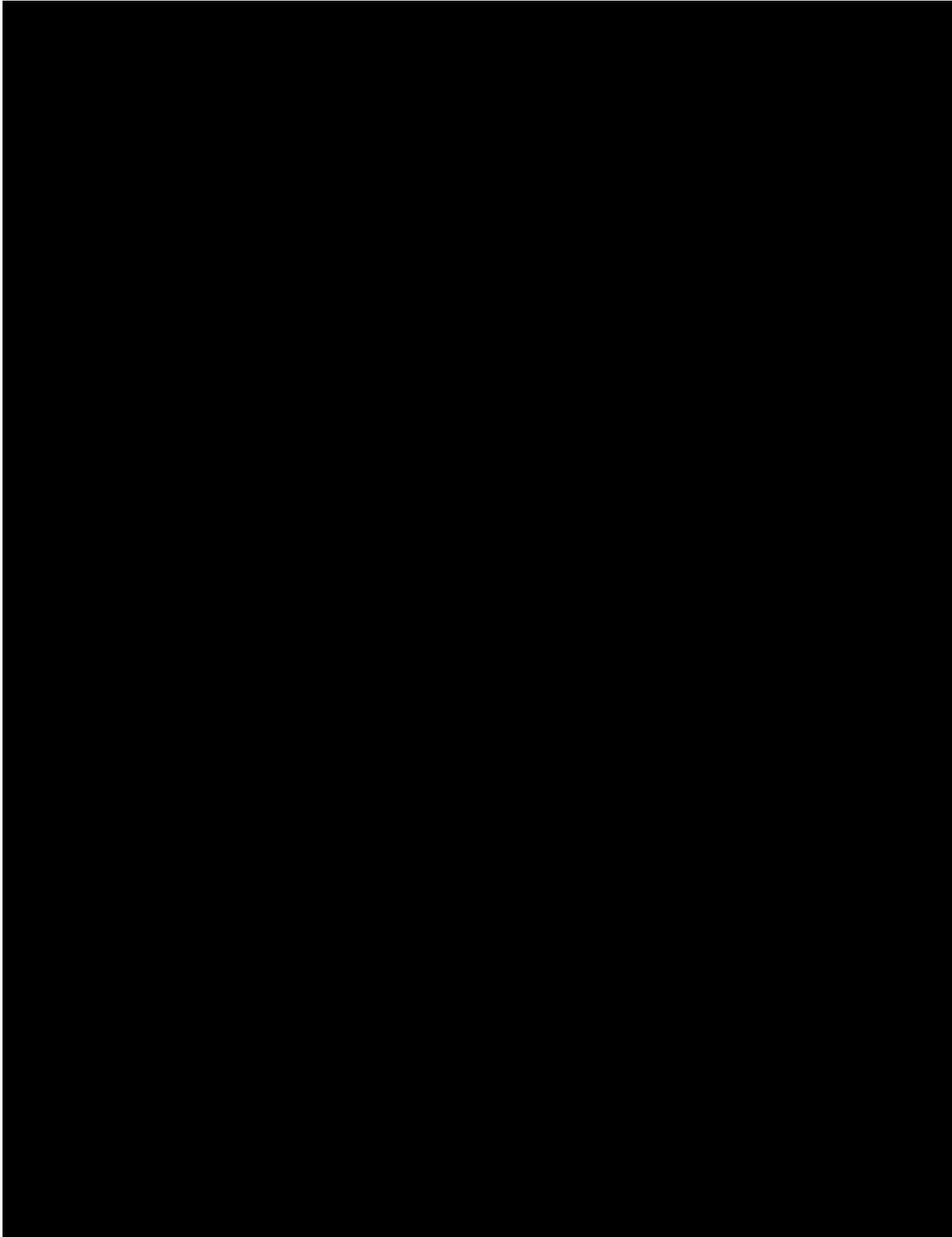
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 47 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 48 of 127

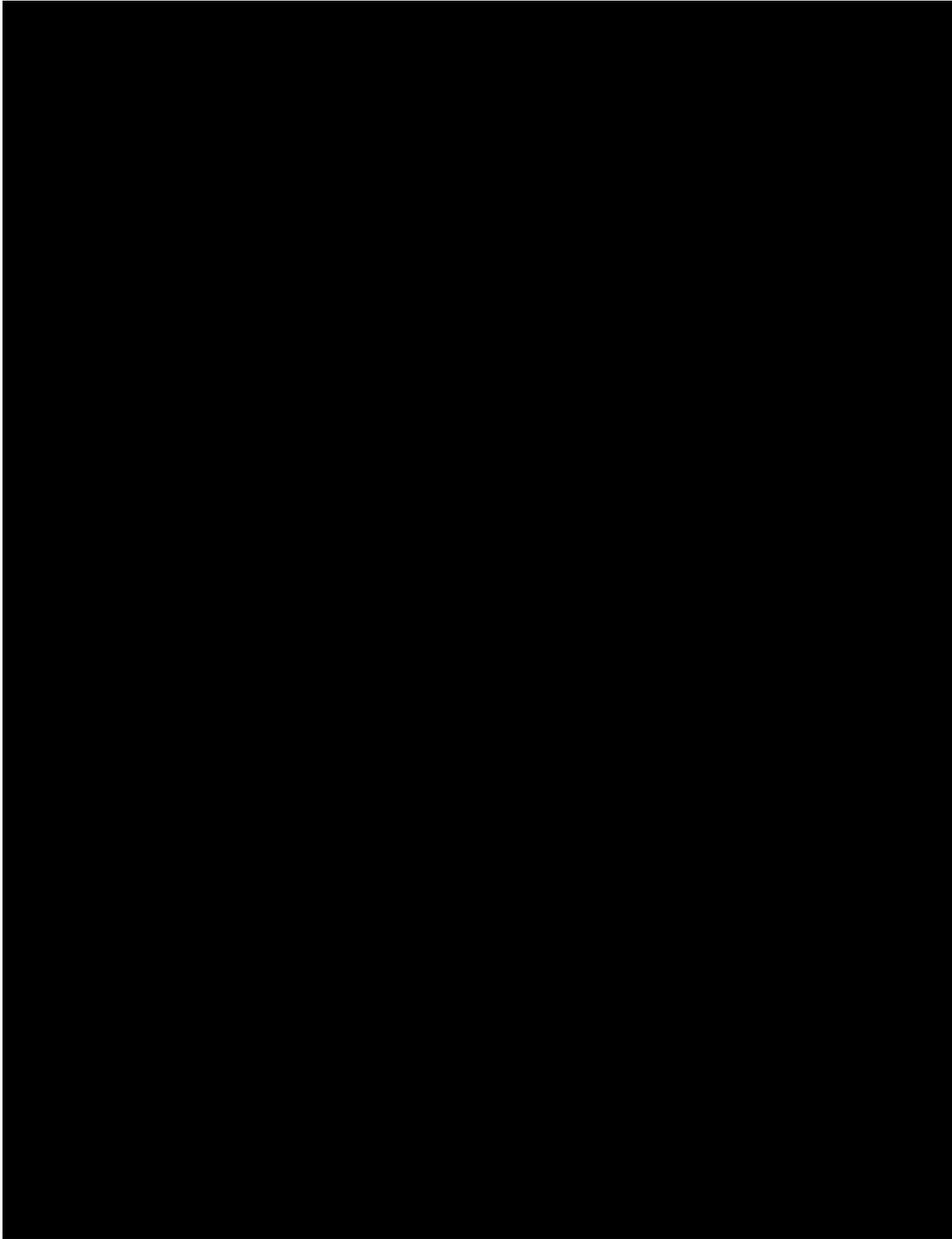
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 48 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 49 of 127

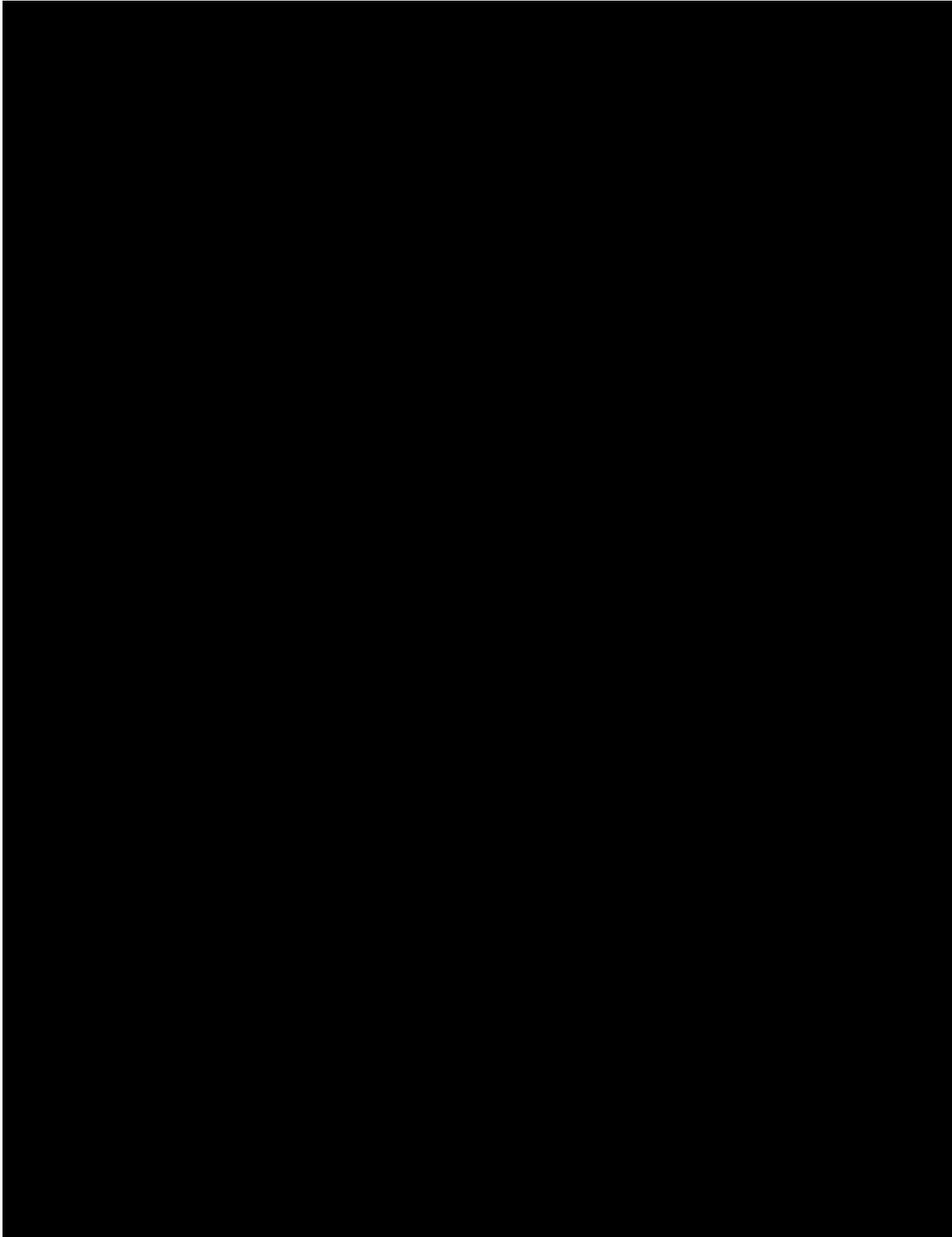
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 49 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 50 of 127

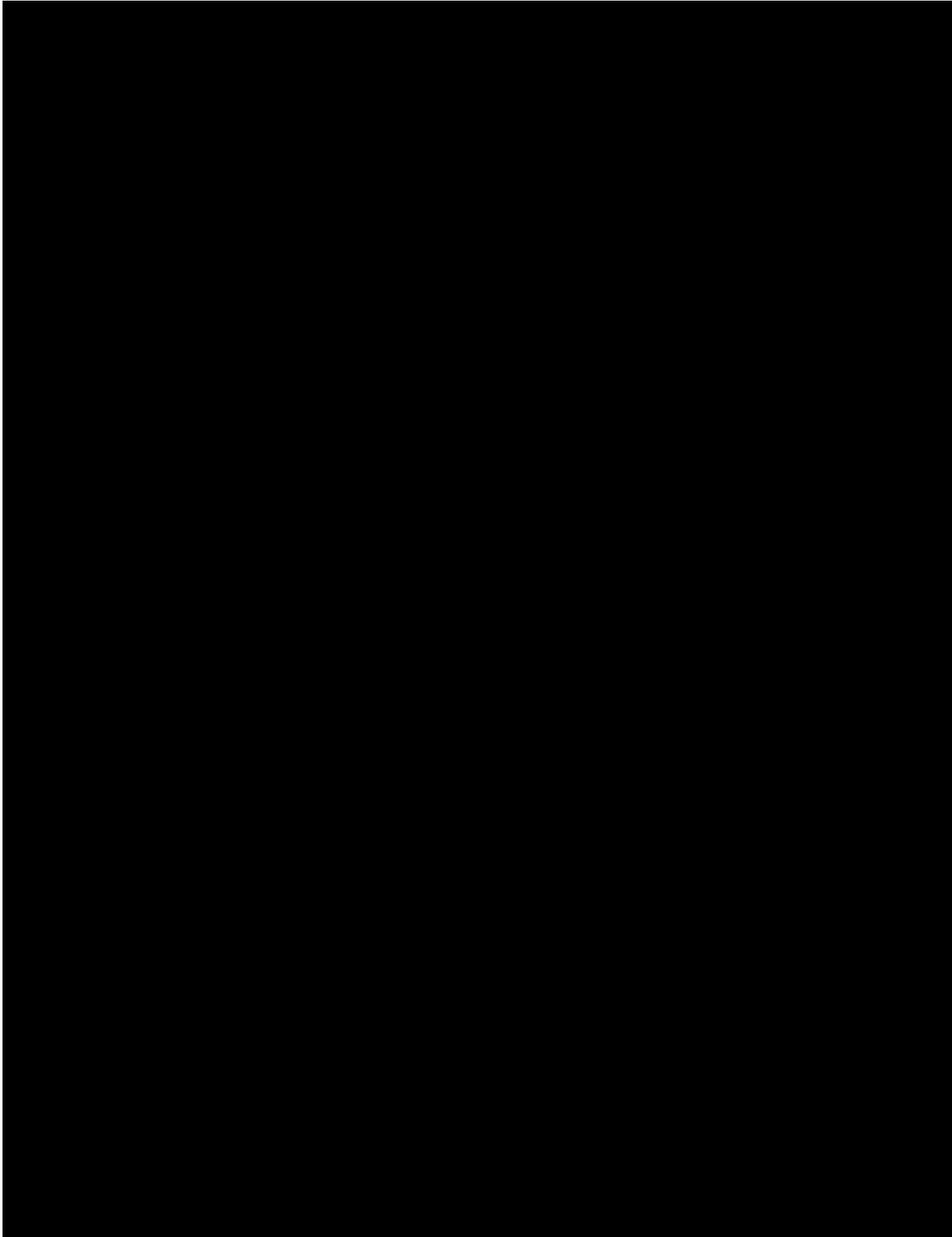
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 50 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 51 of 127

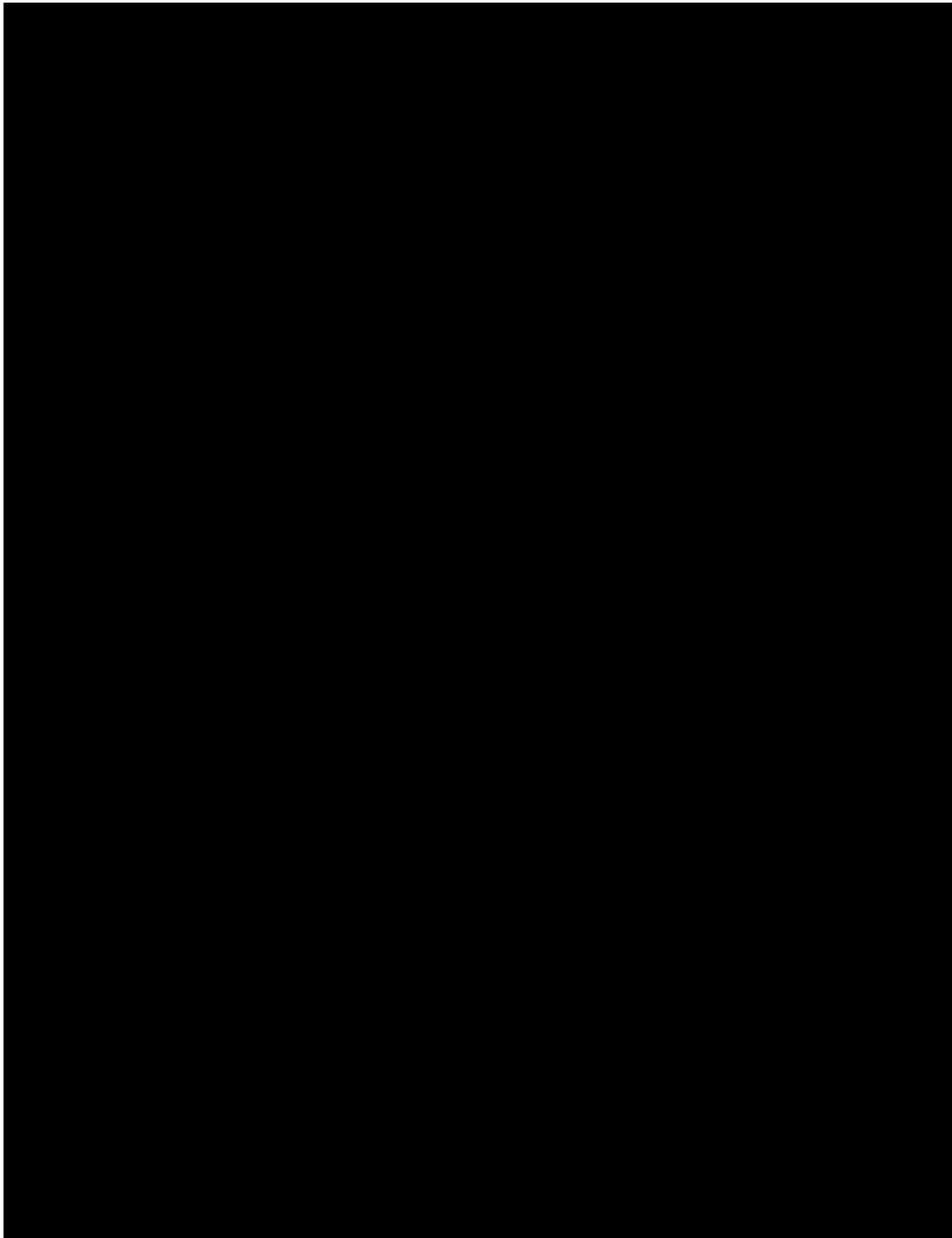
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 51 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 52 of 127

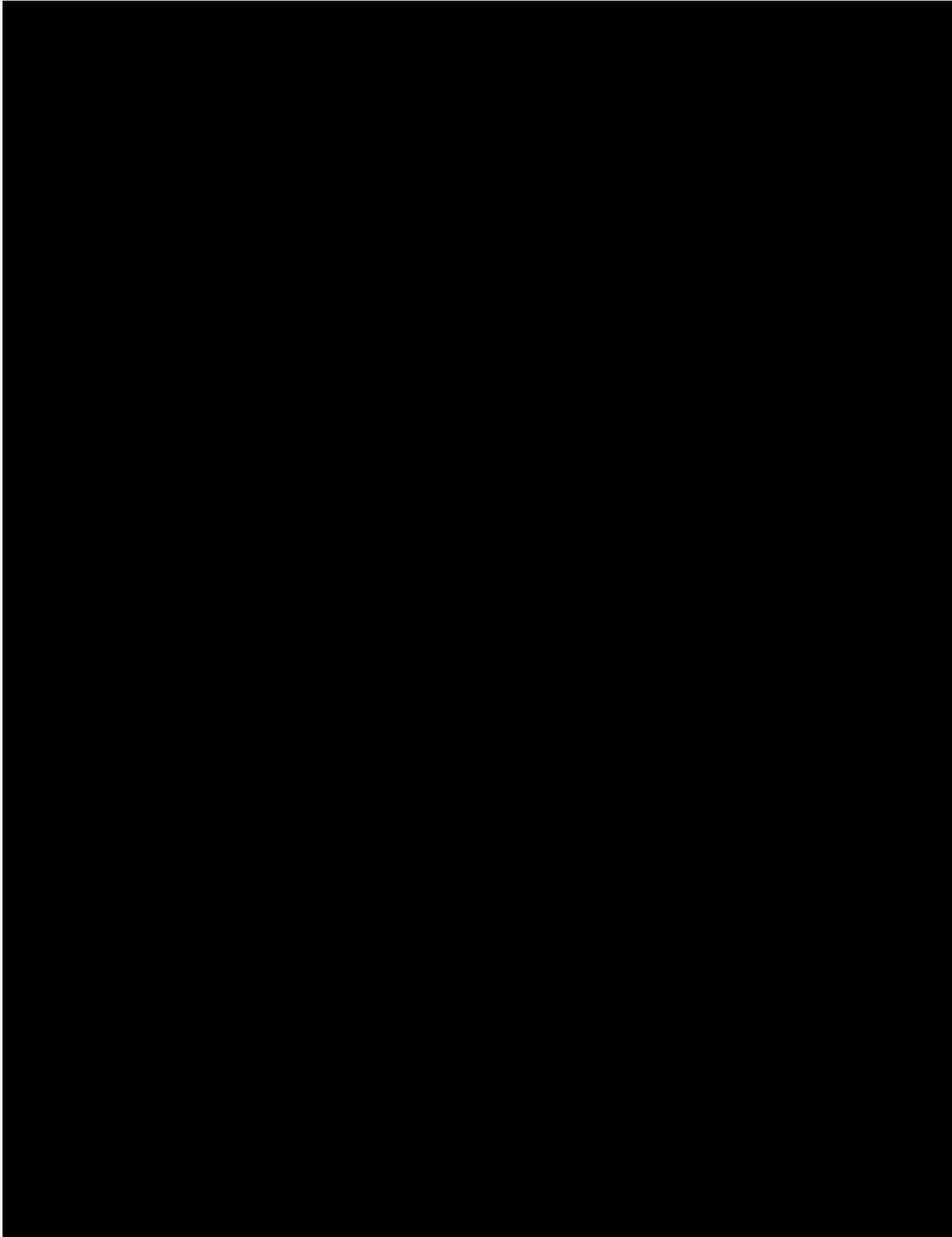
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 52 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 53 of 127

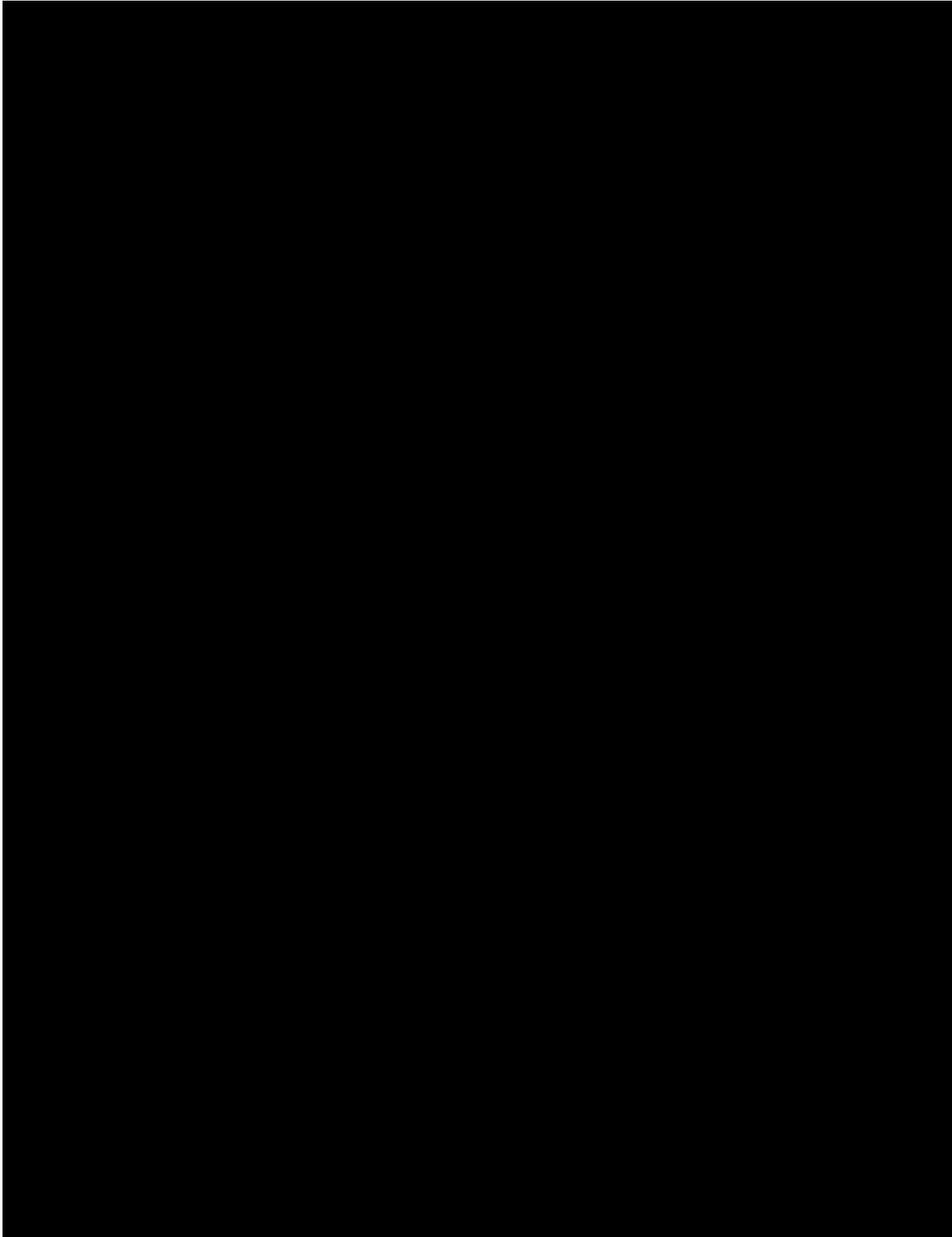
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 53 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 54 of 127

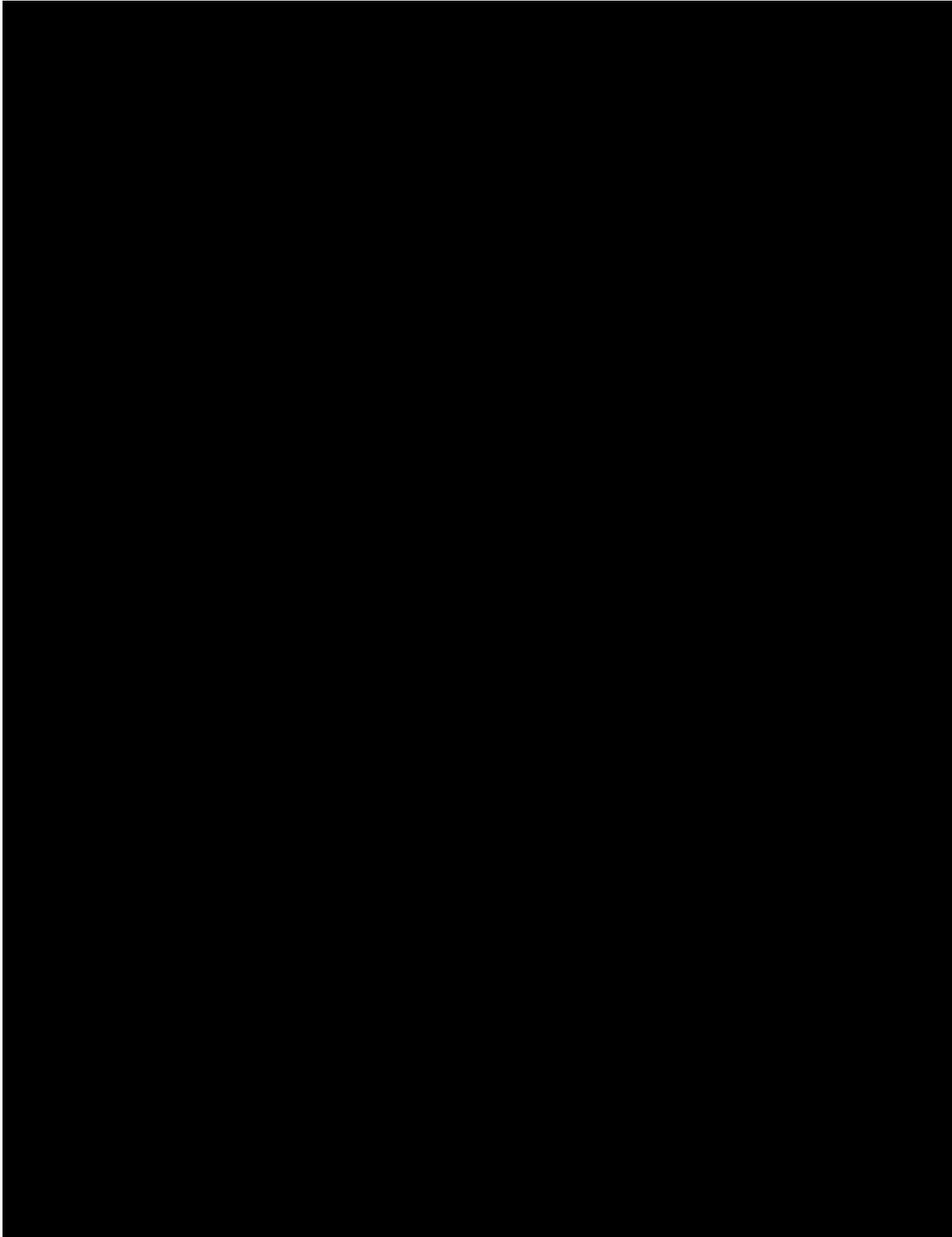
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 54 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 55 of 127

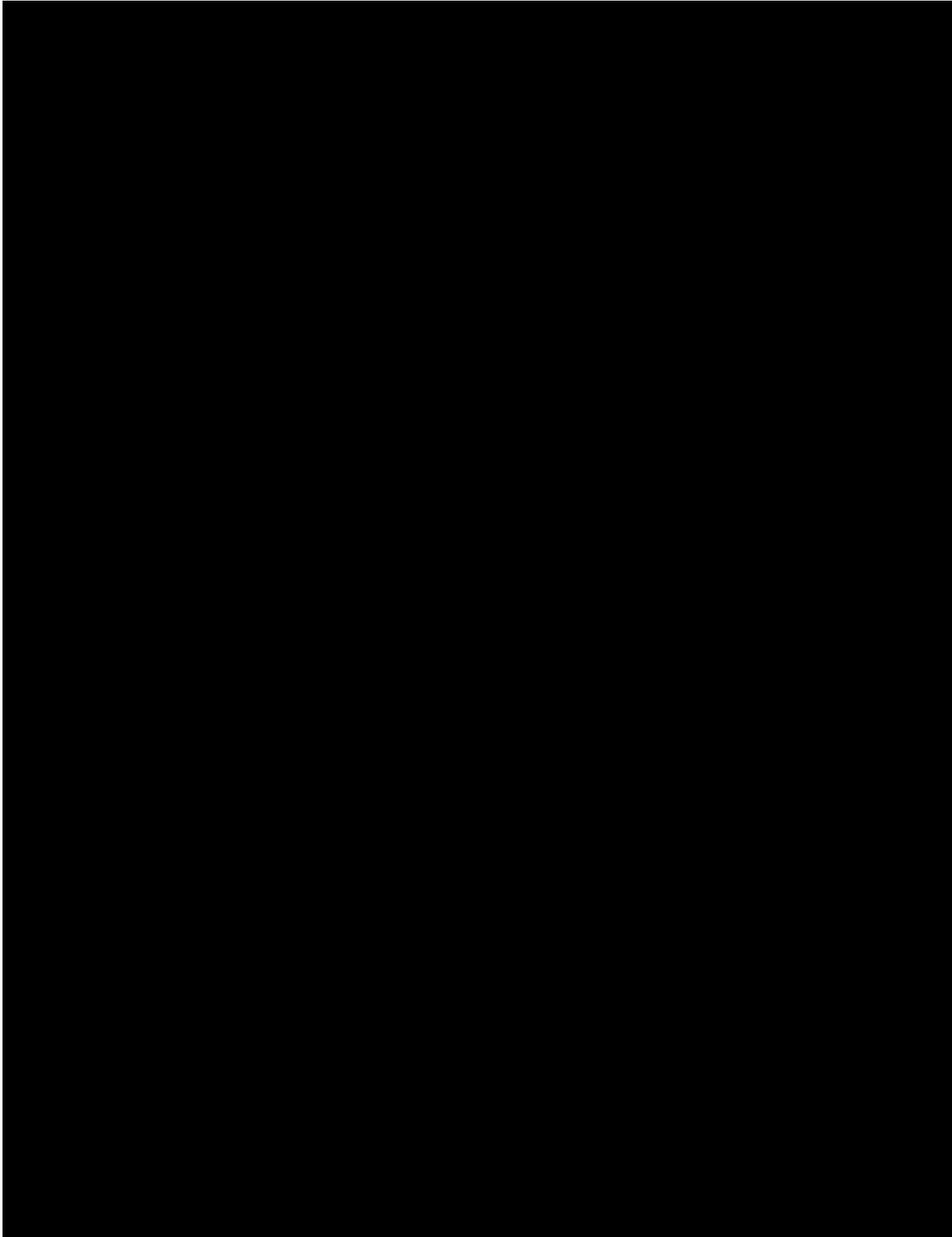
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 55 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 56 of 127

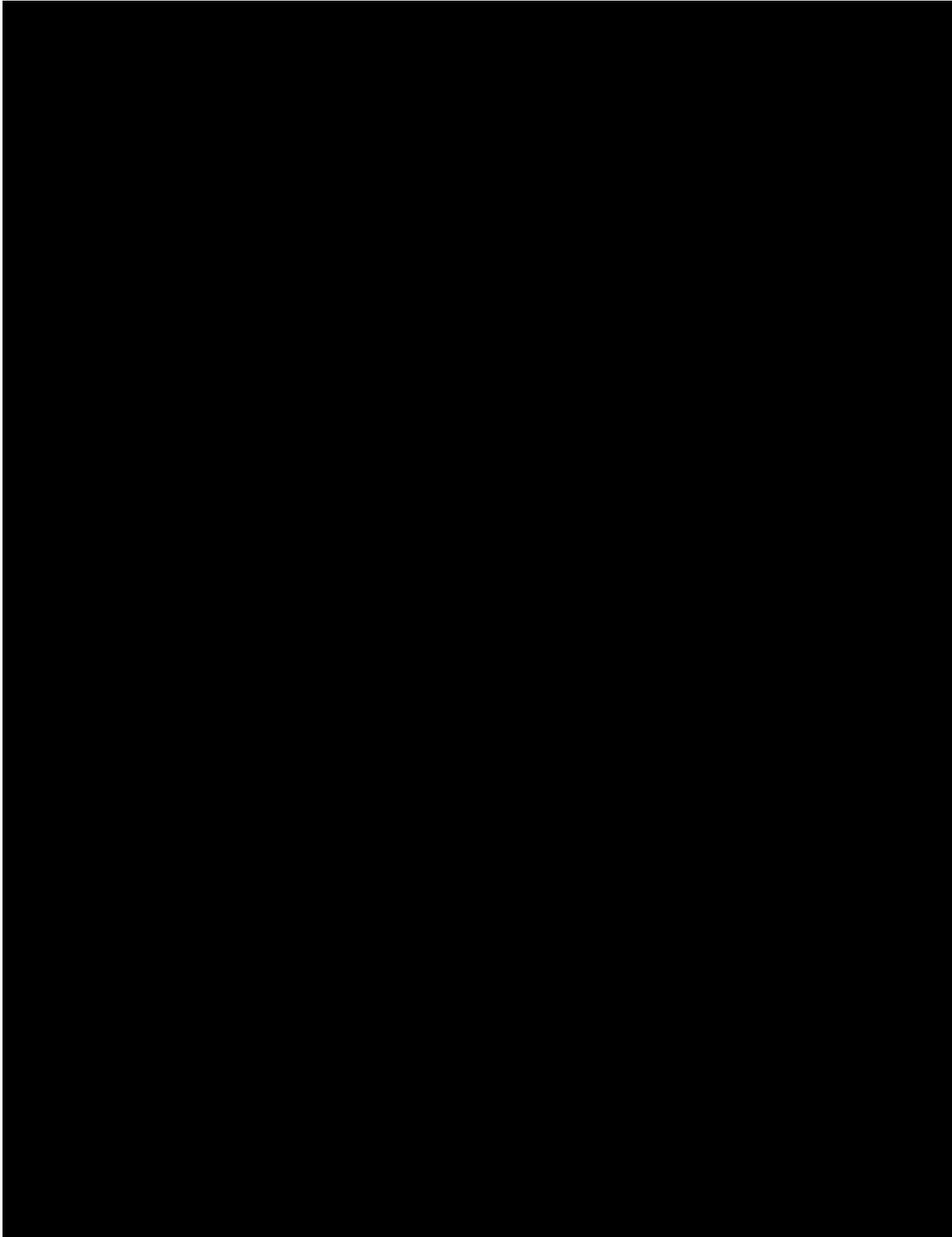
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 56 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 57 of 127

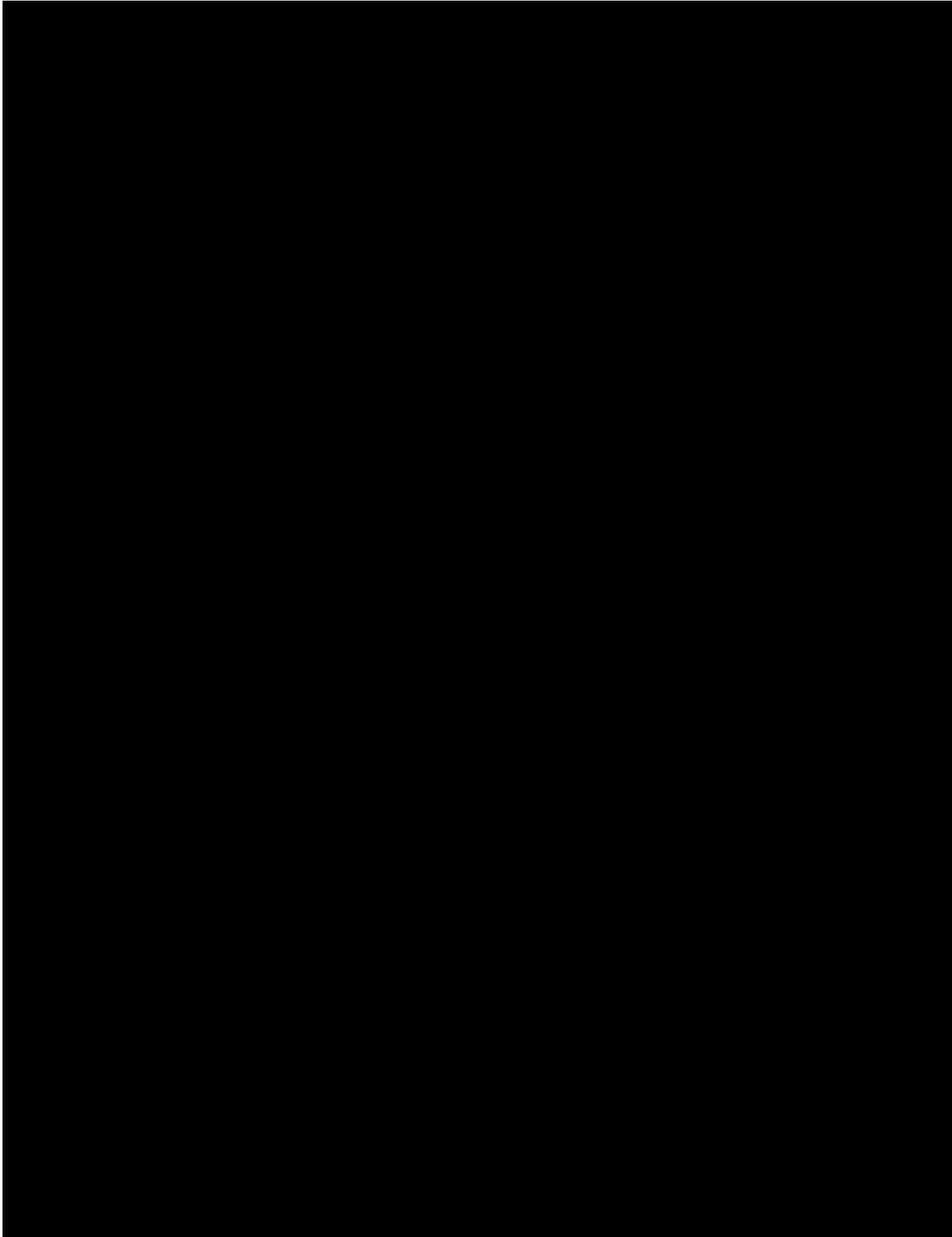
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 57 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 58 of 127

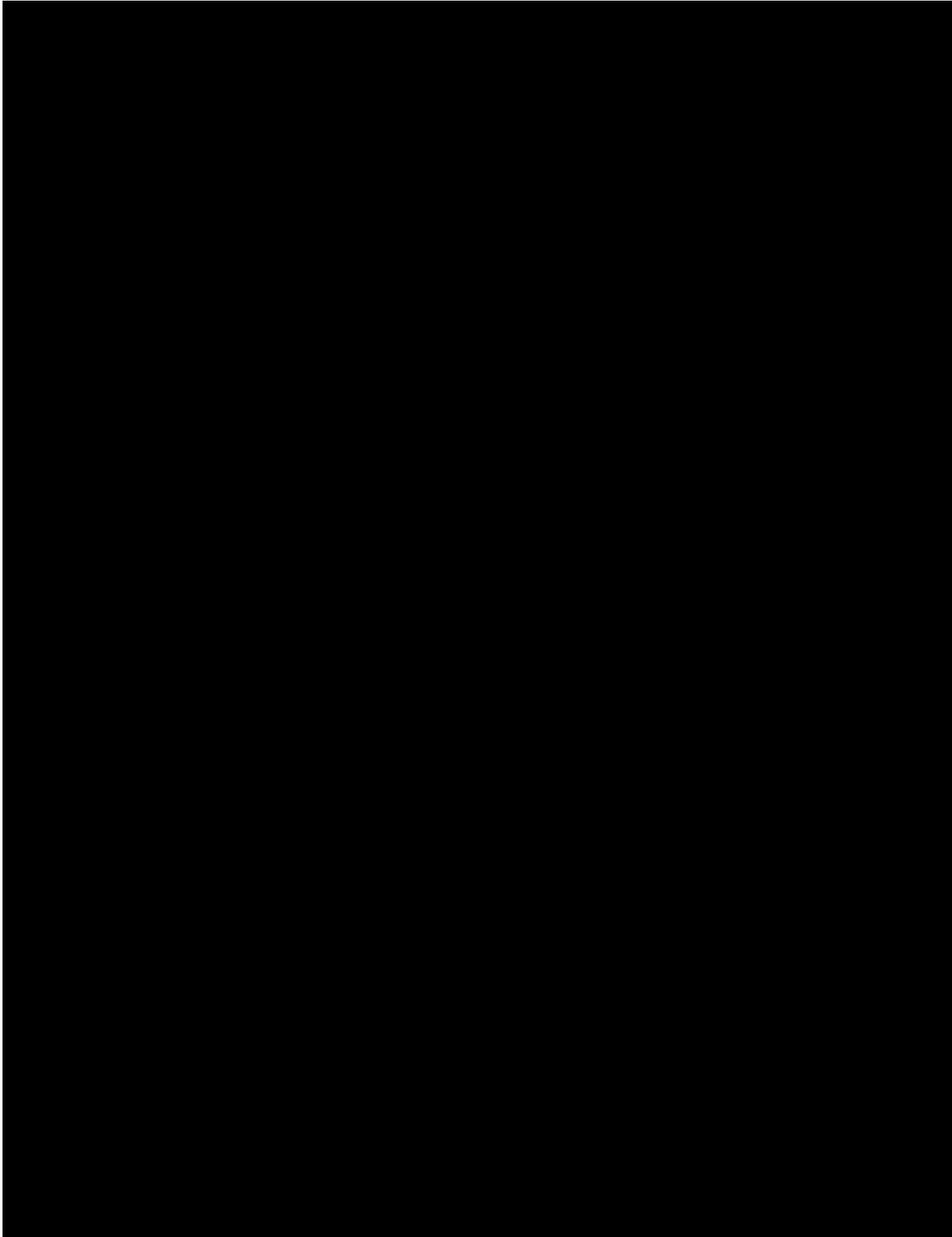
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 58 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 59 of 127

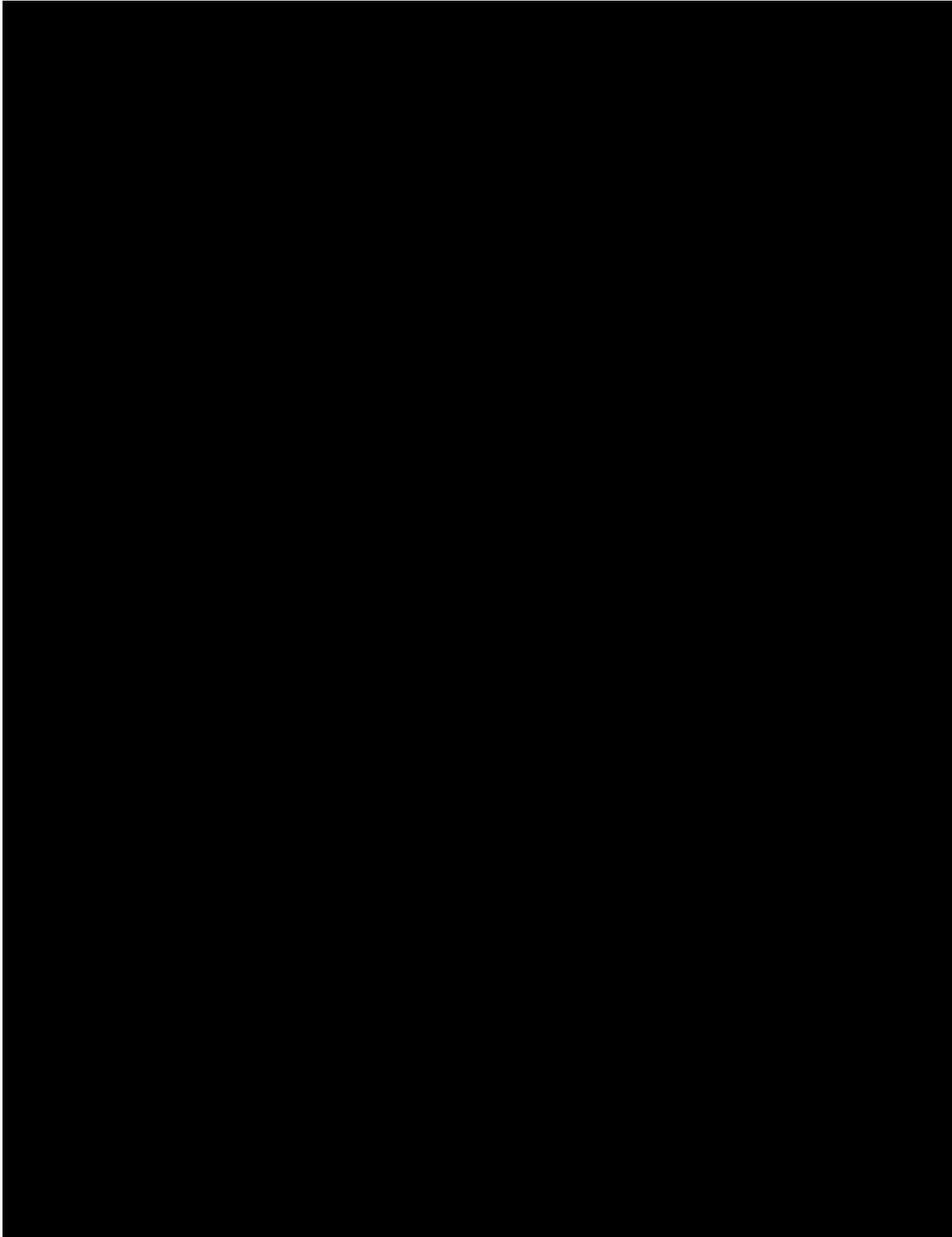
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 59 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 60 of 127

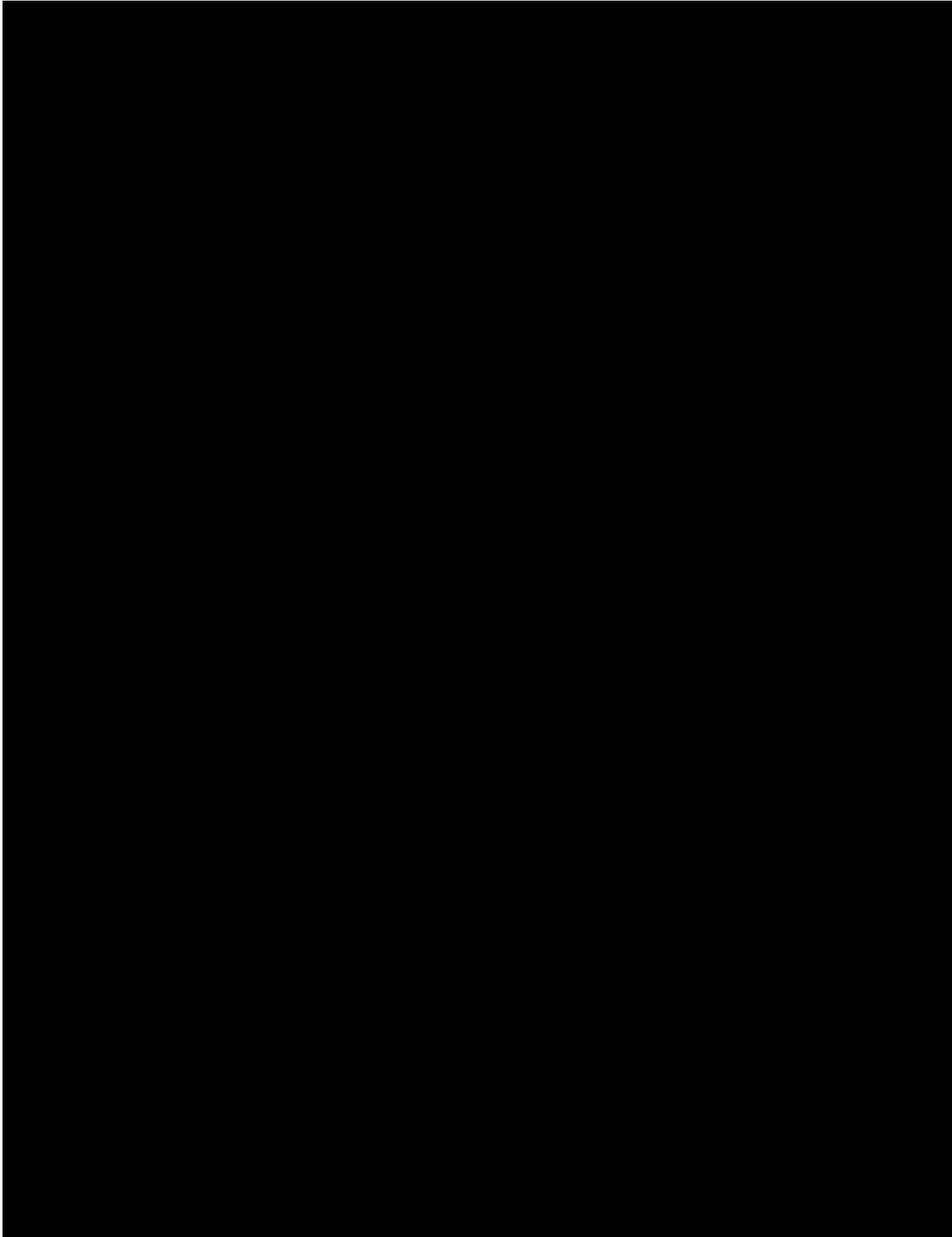
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 60 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 61 of 127

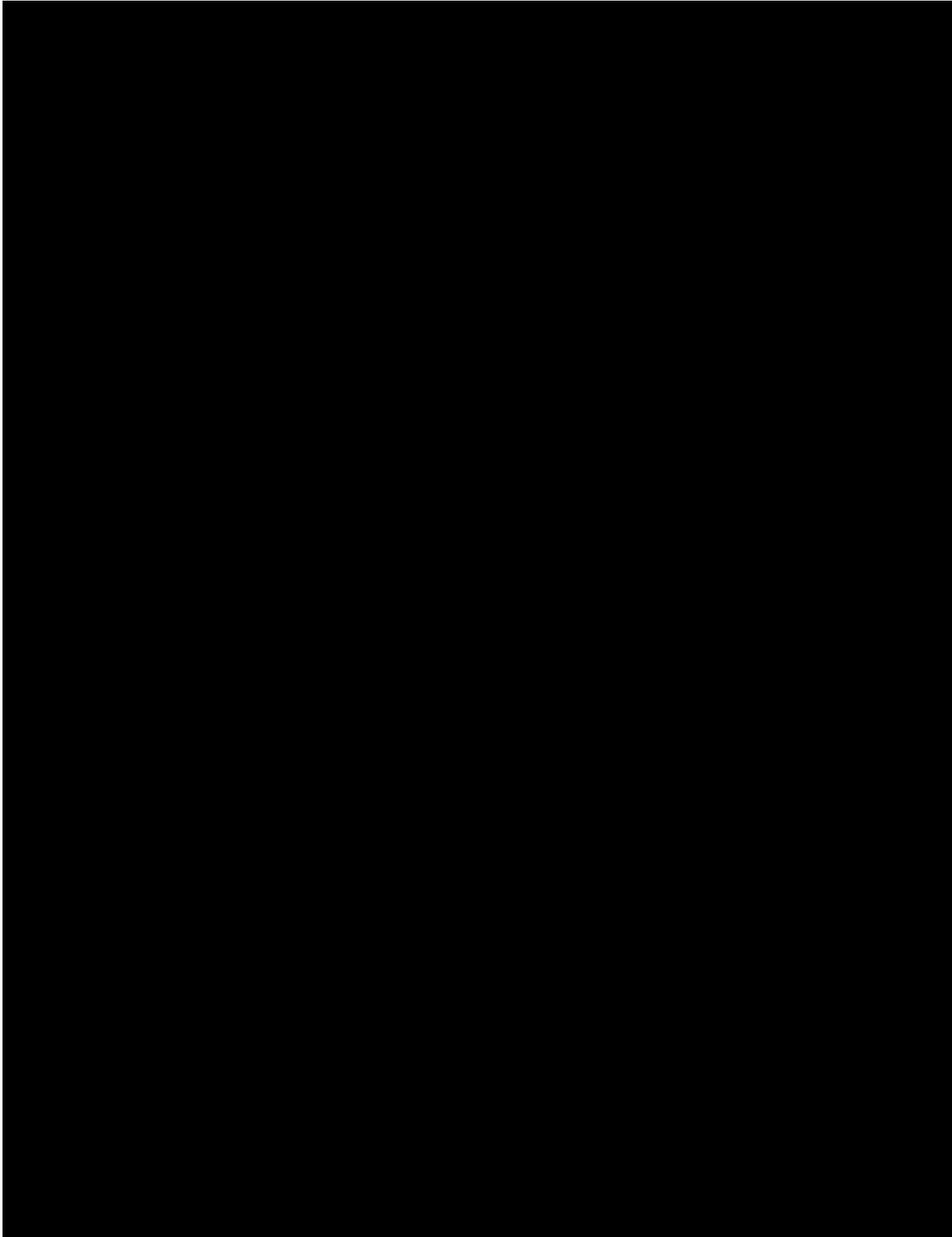
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 61 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 62 of 127

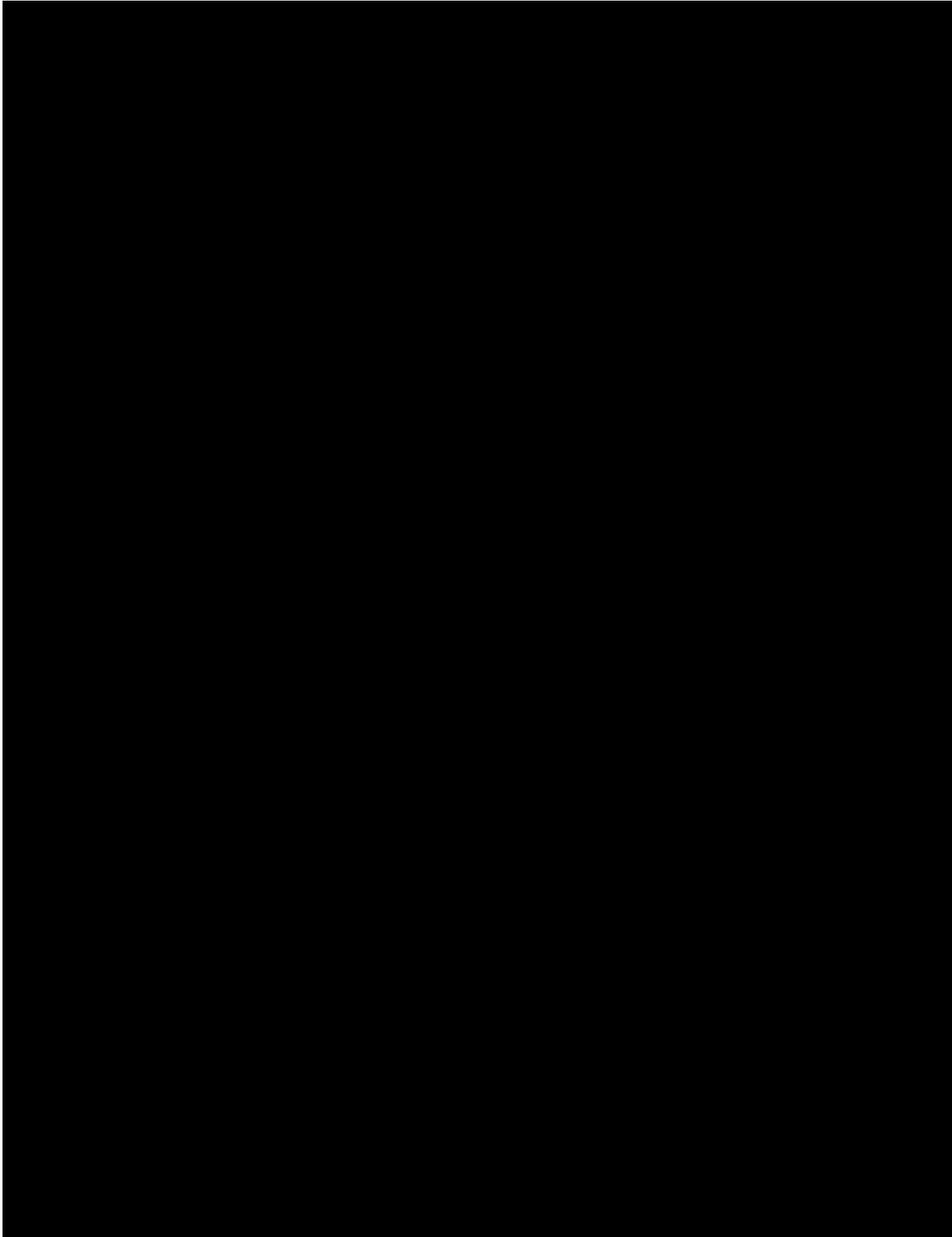
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 62 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 63 of 127

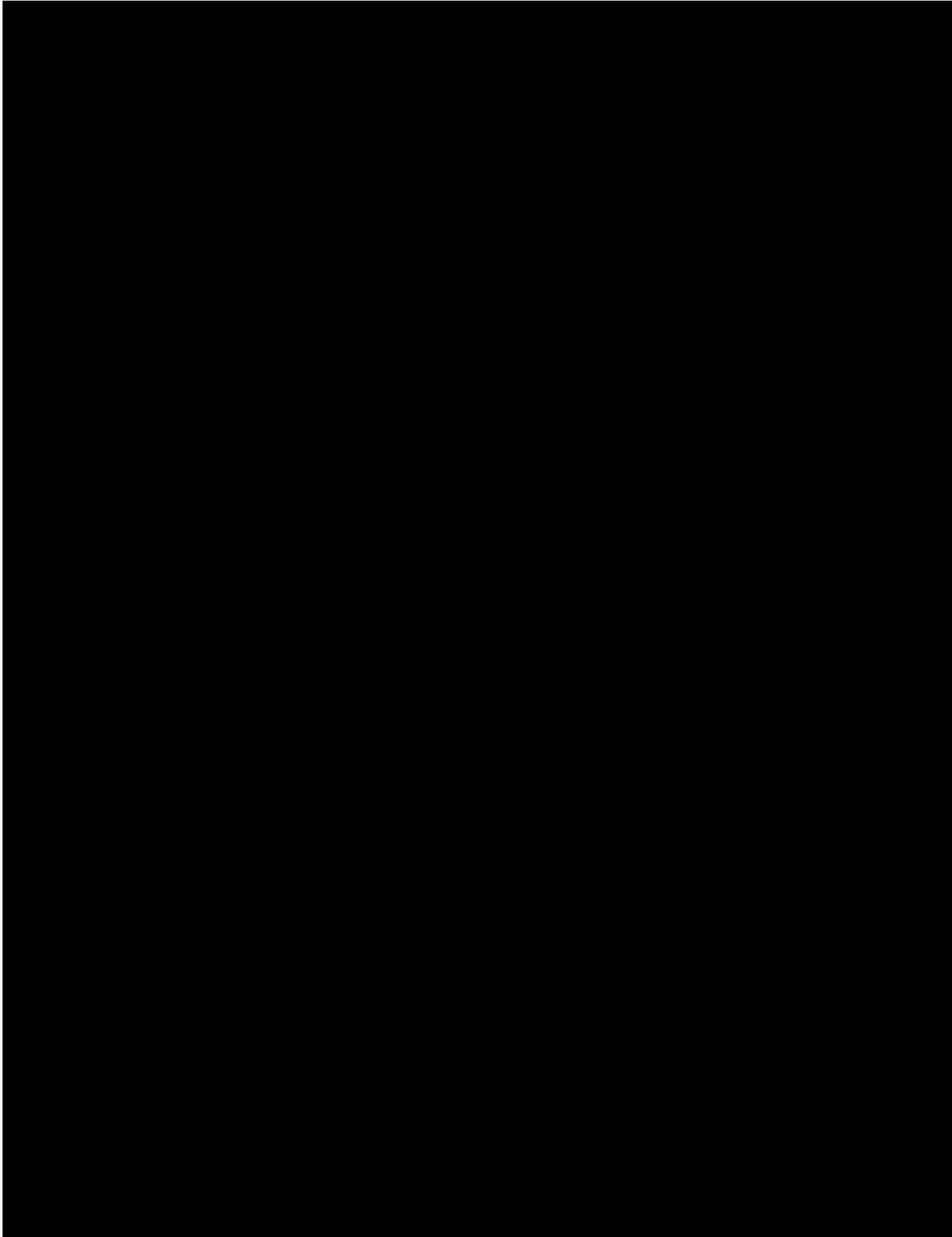
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 63 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 64 of 127

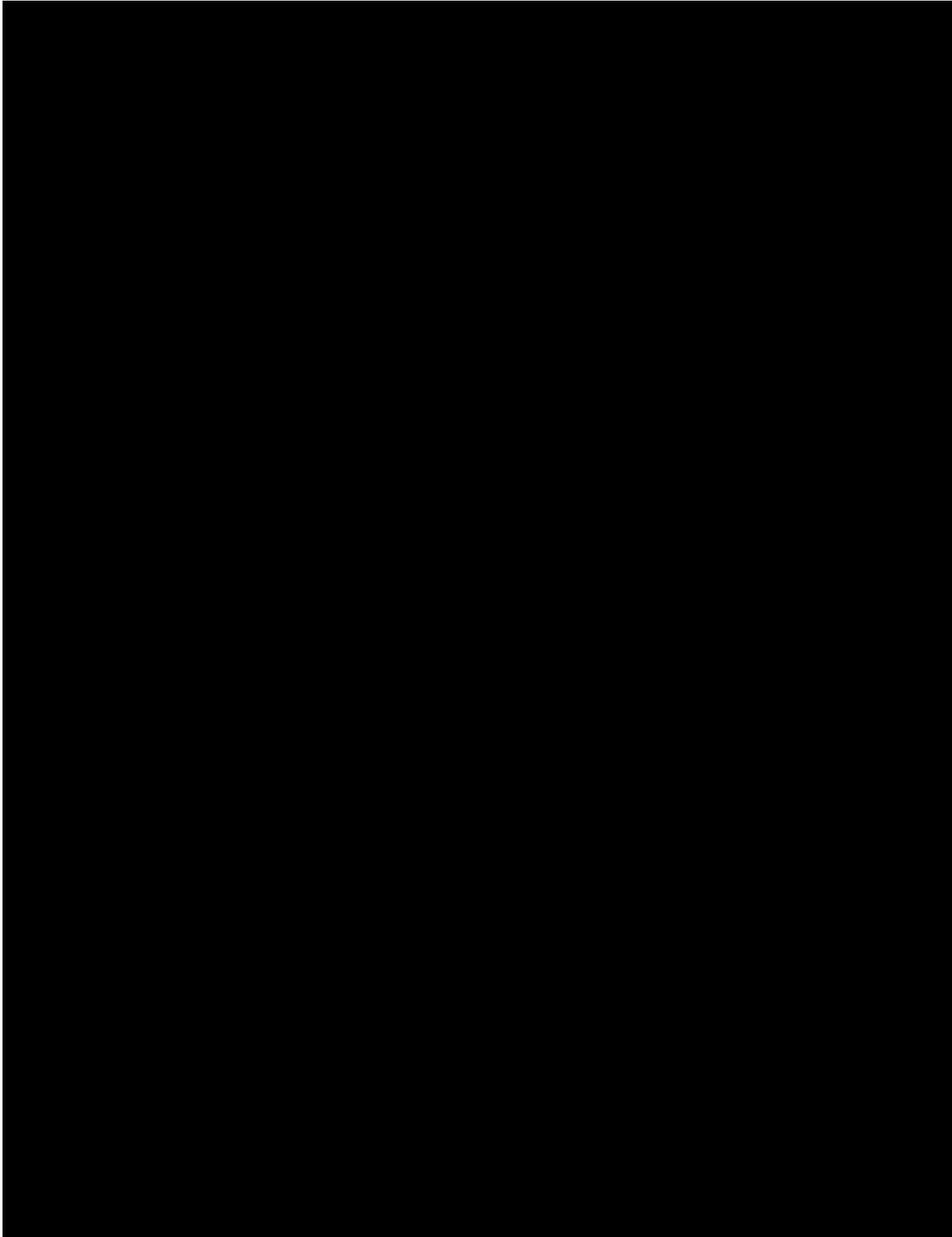
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 64 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 65 of 127

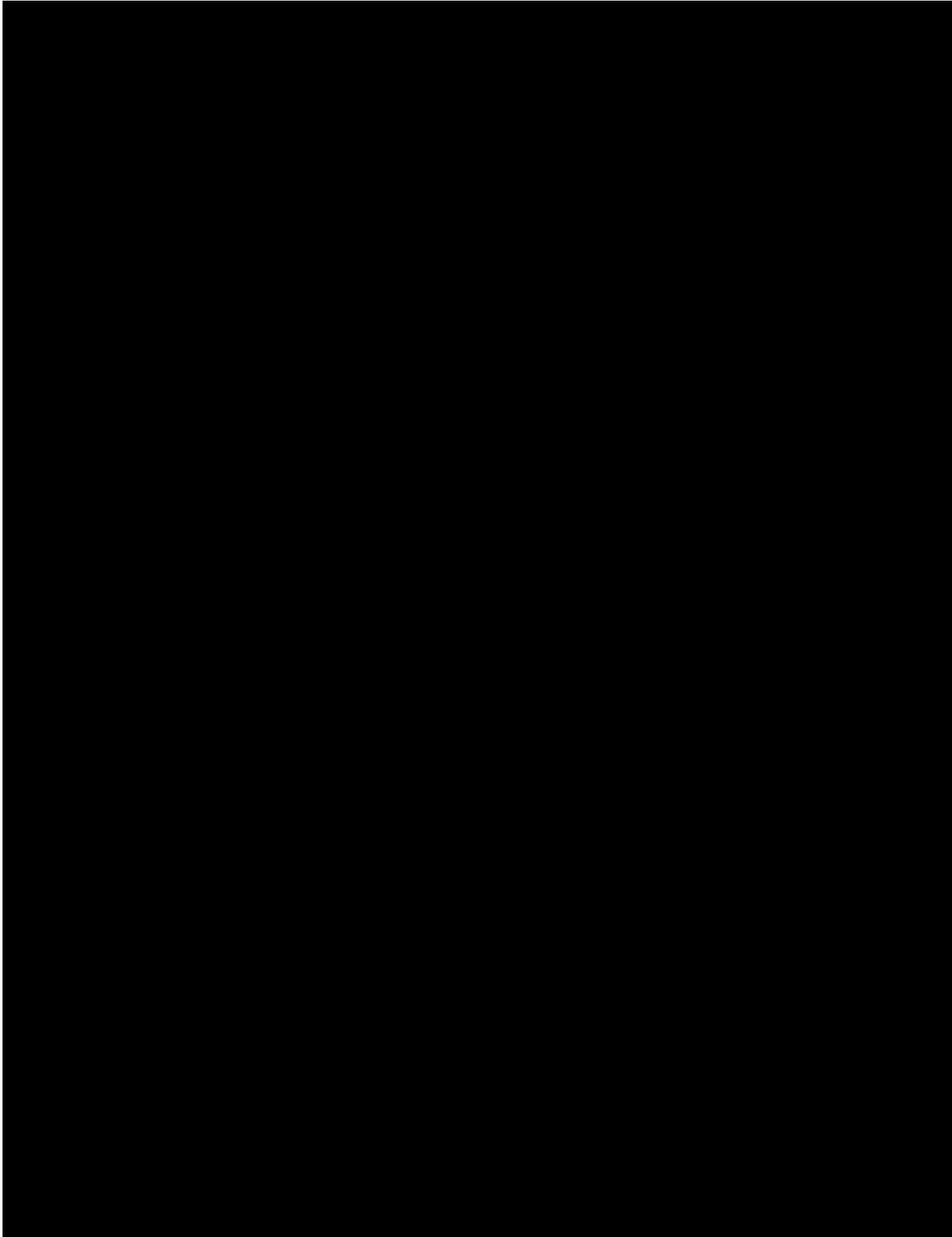
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 65 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 66 of 127

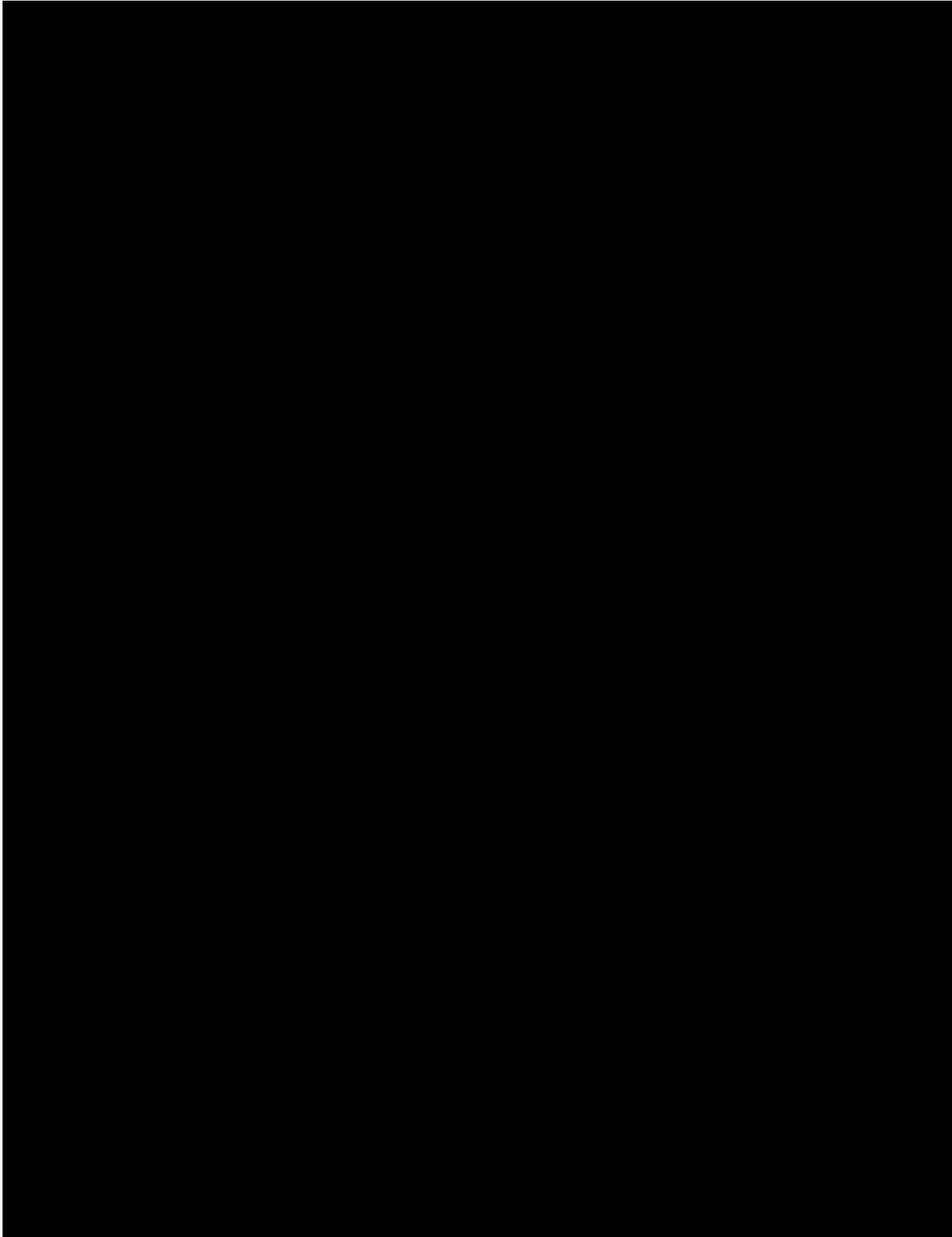
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 66 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 67 of 127

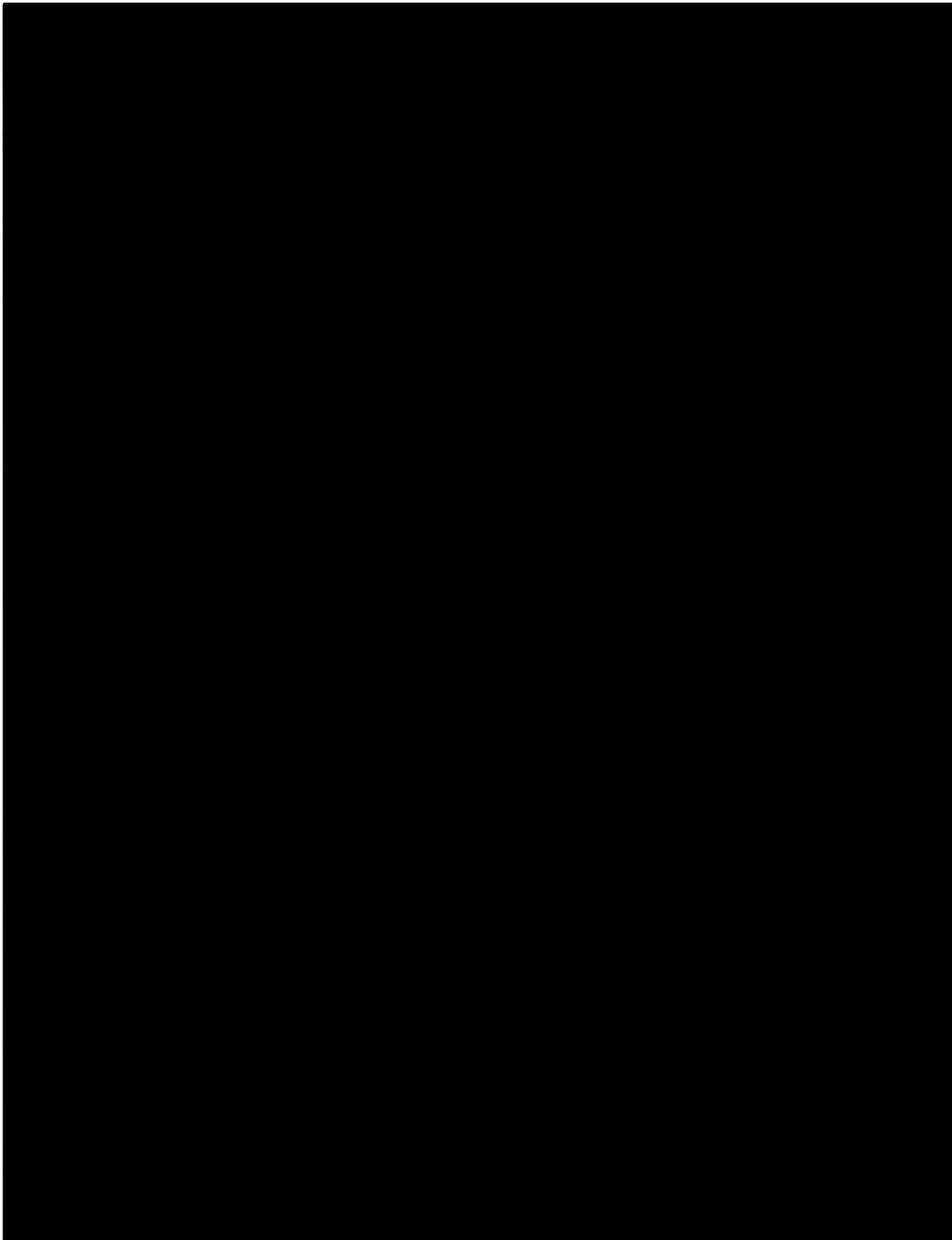
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 67 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 68 of 127

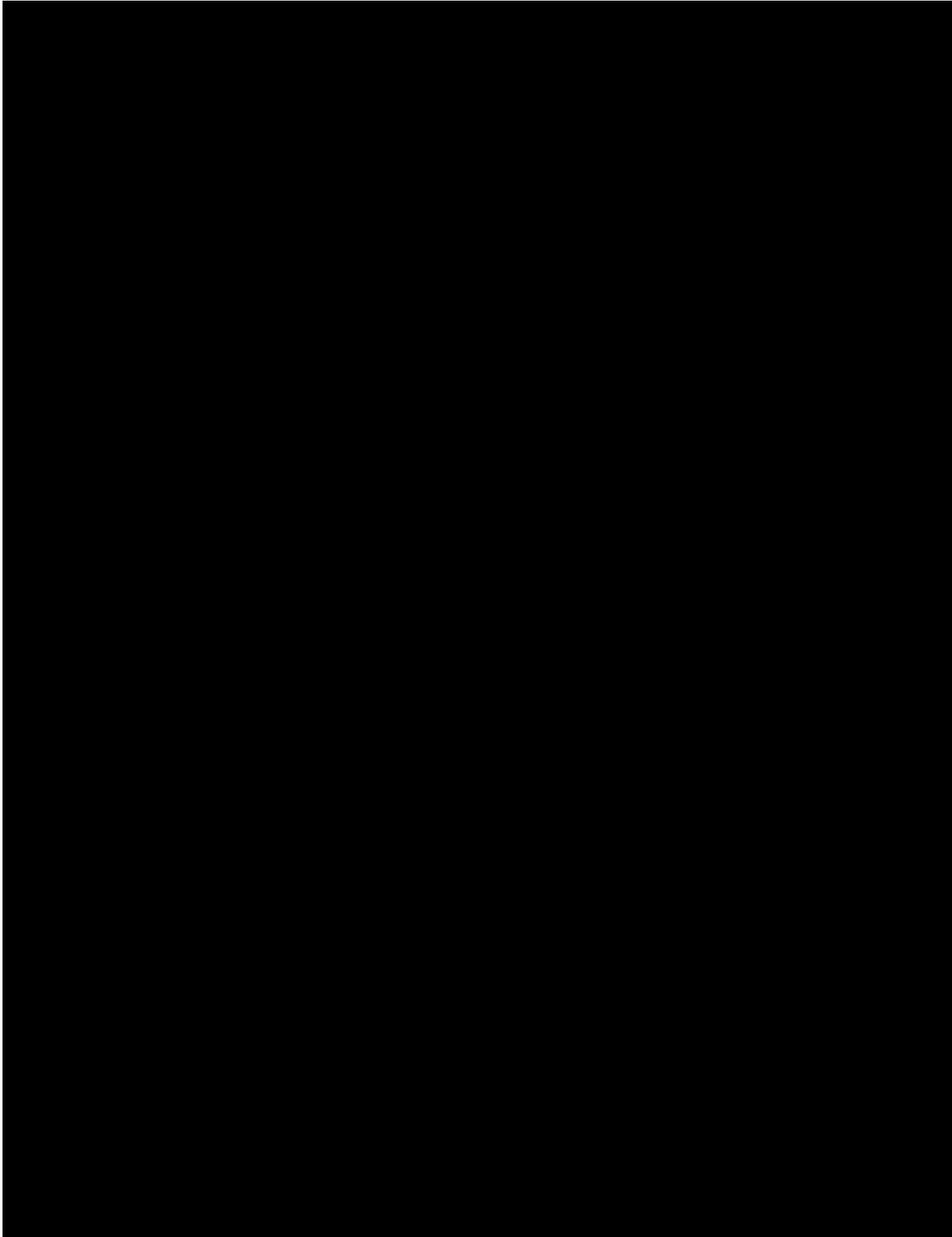
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 68 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 69 of 127

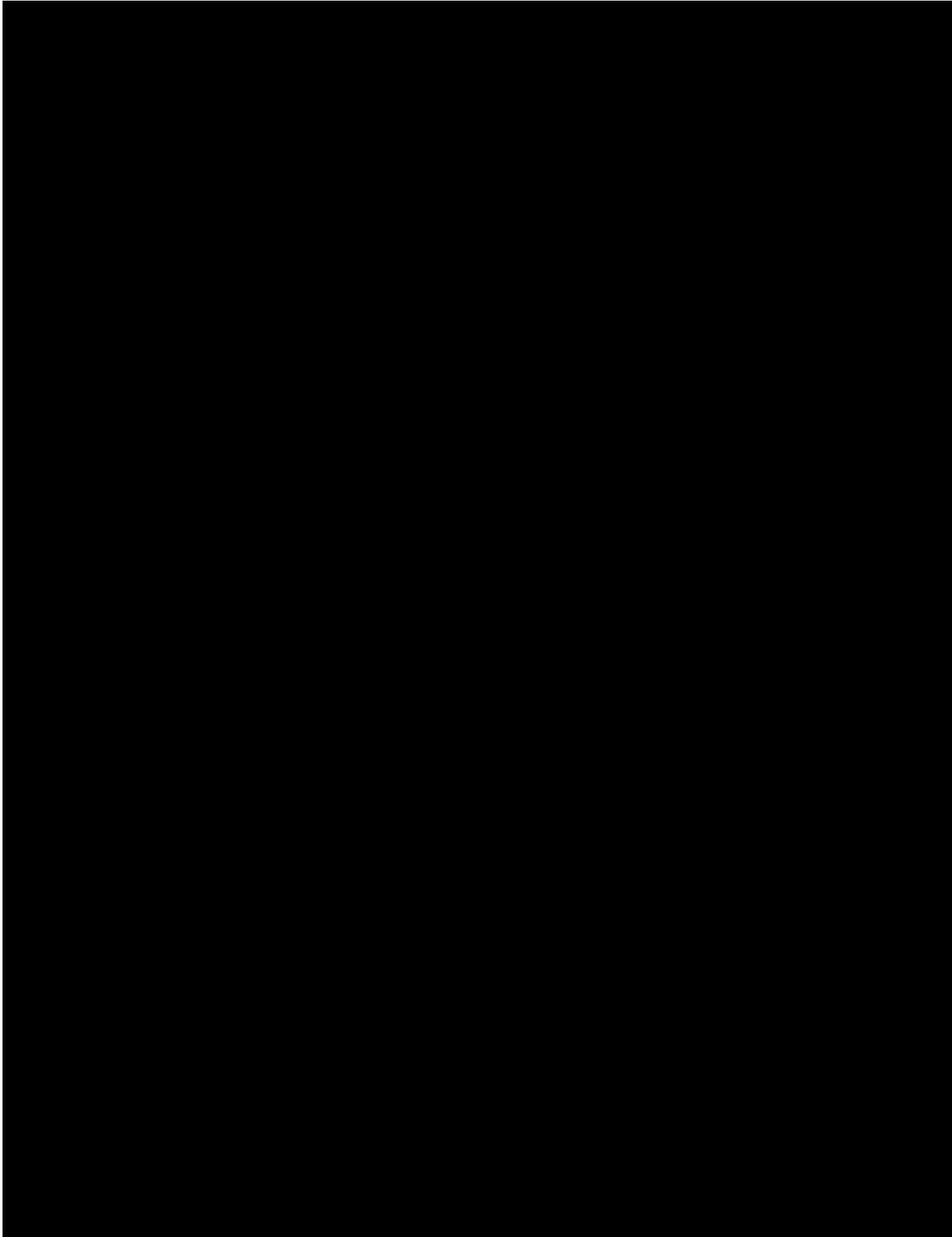
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 69 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 70 of 127

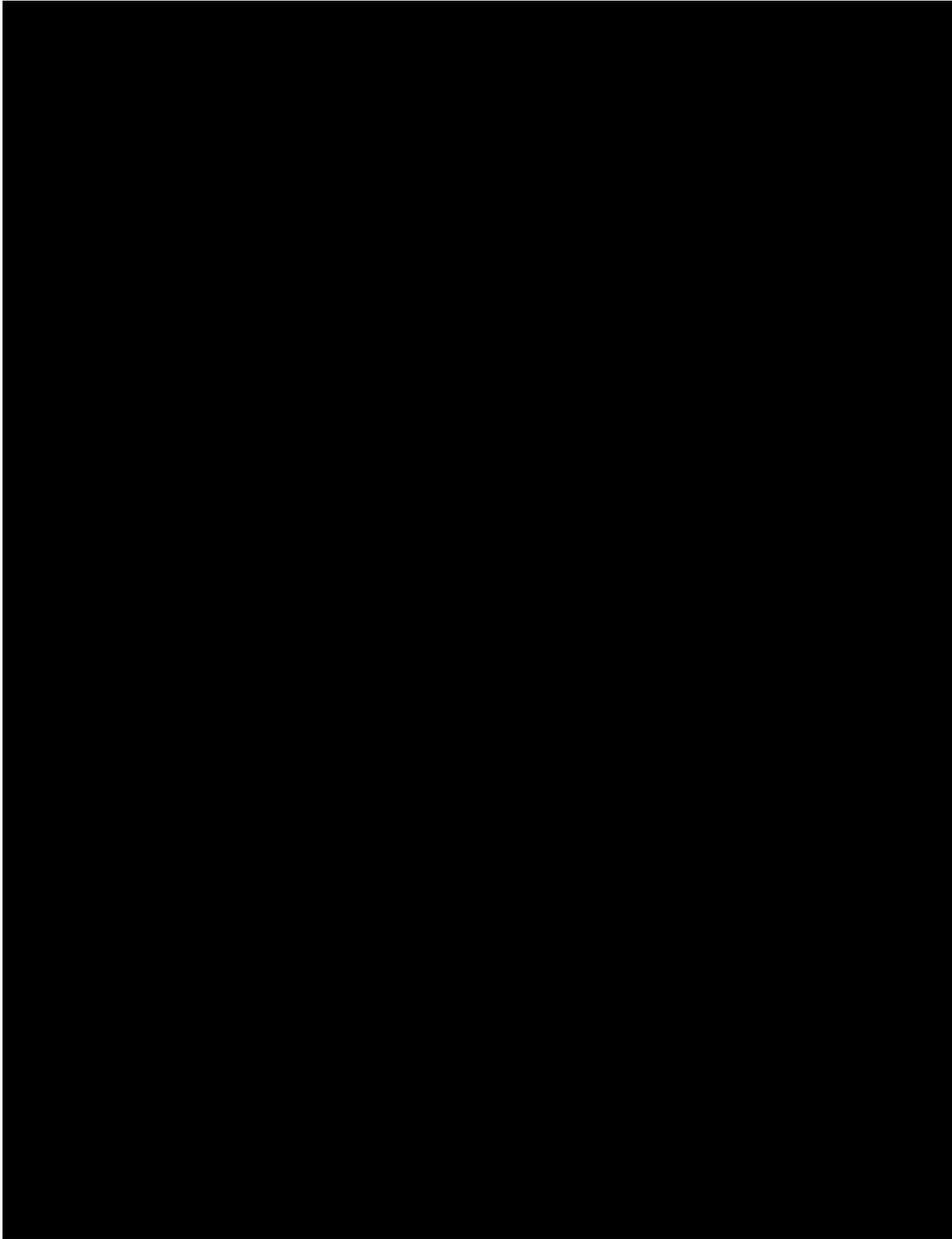
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 70 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 71 of 127

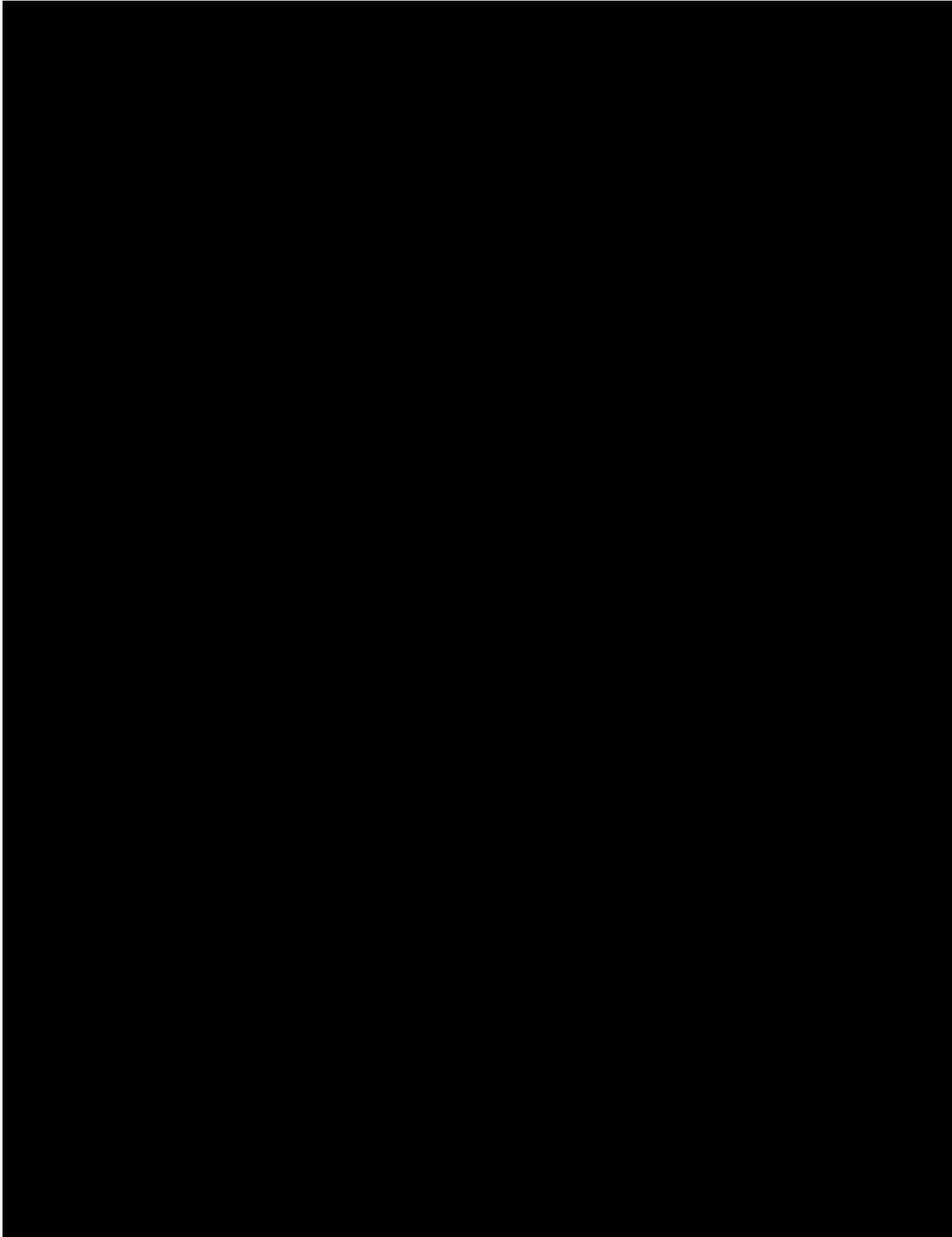
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 71 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 72 of 127

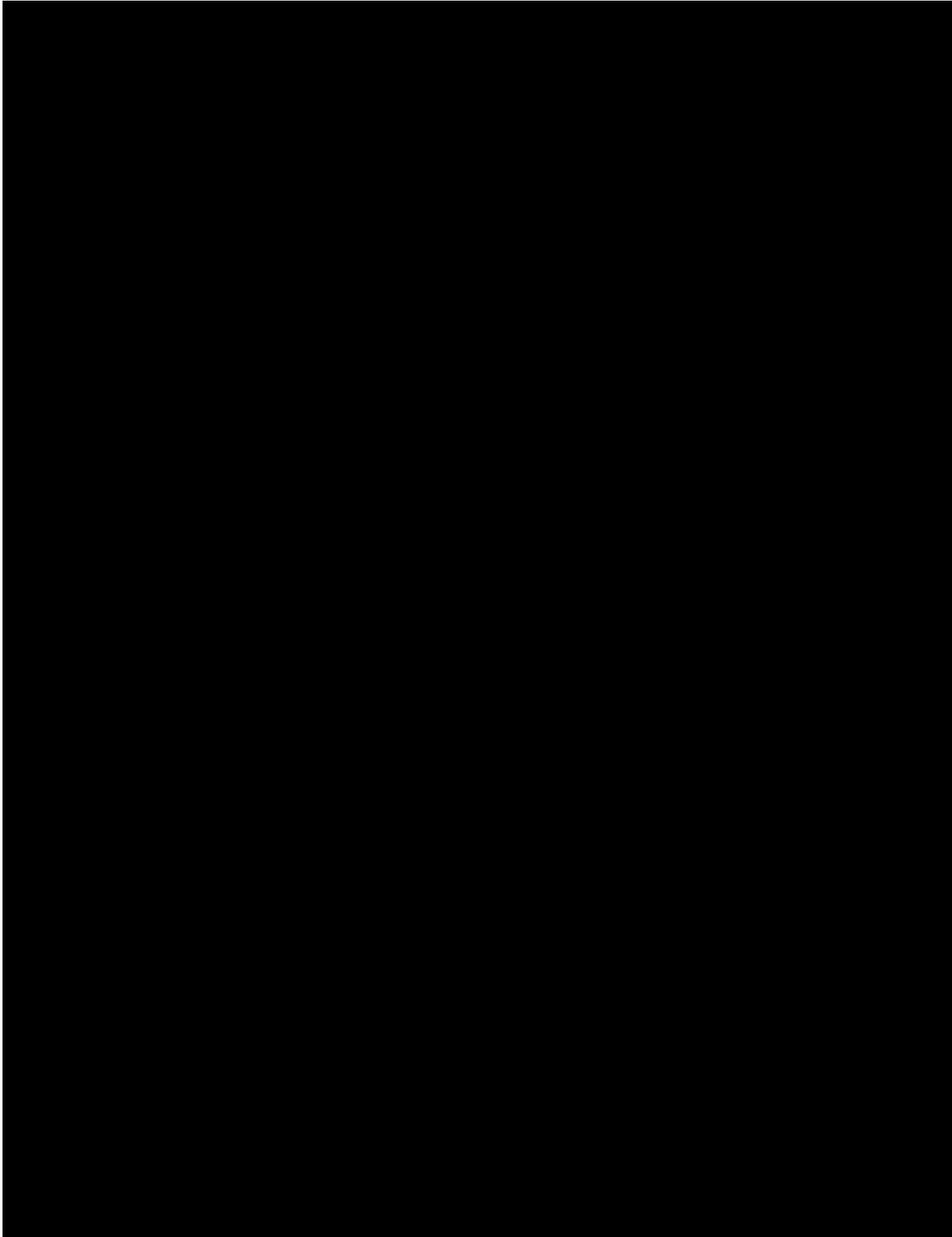
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 72 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 73 of 127

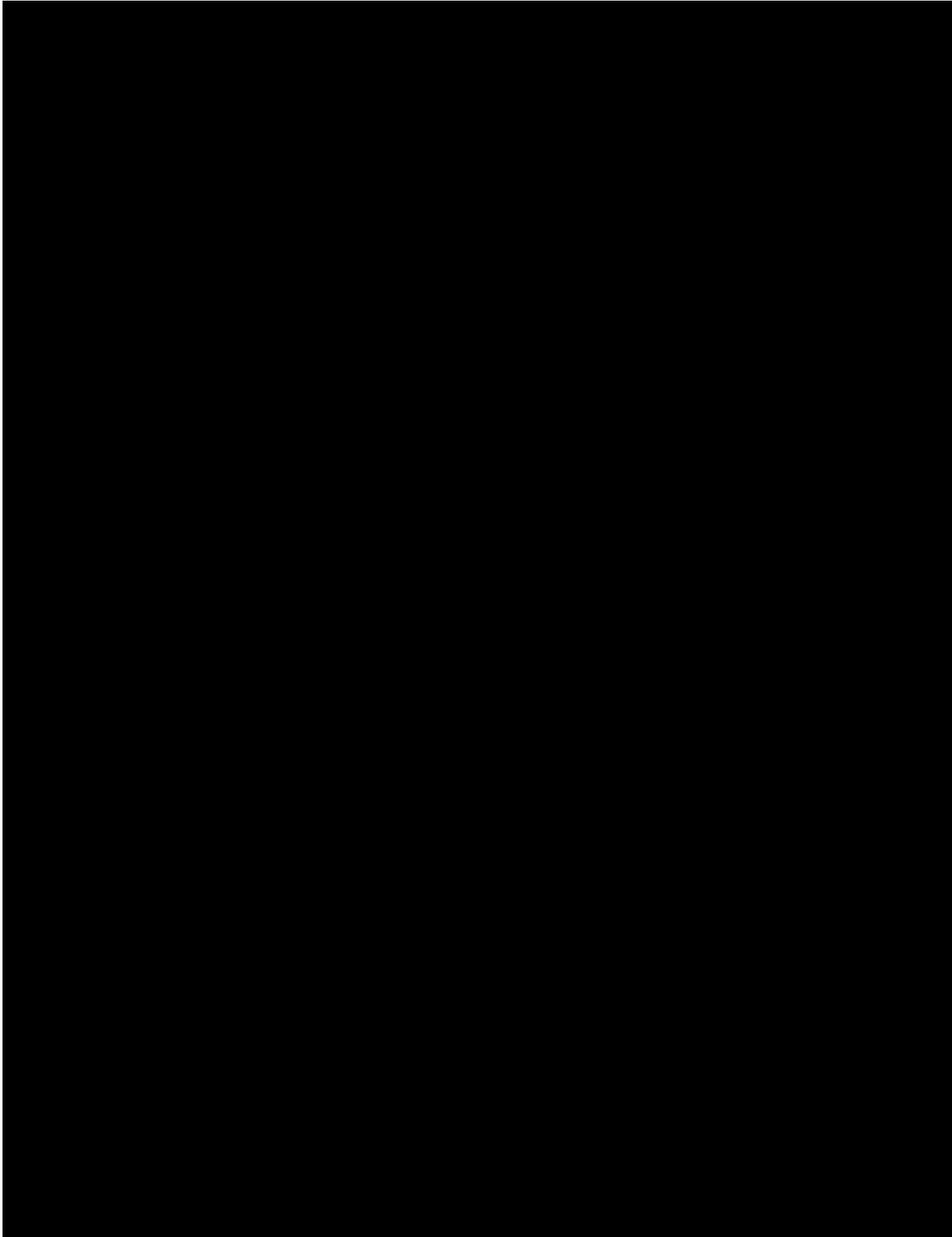
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 73 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 74 of 127

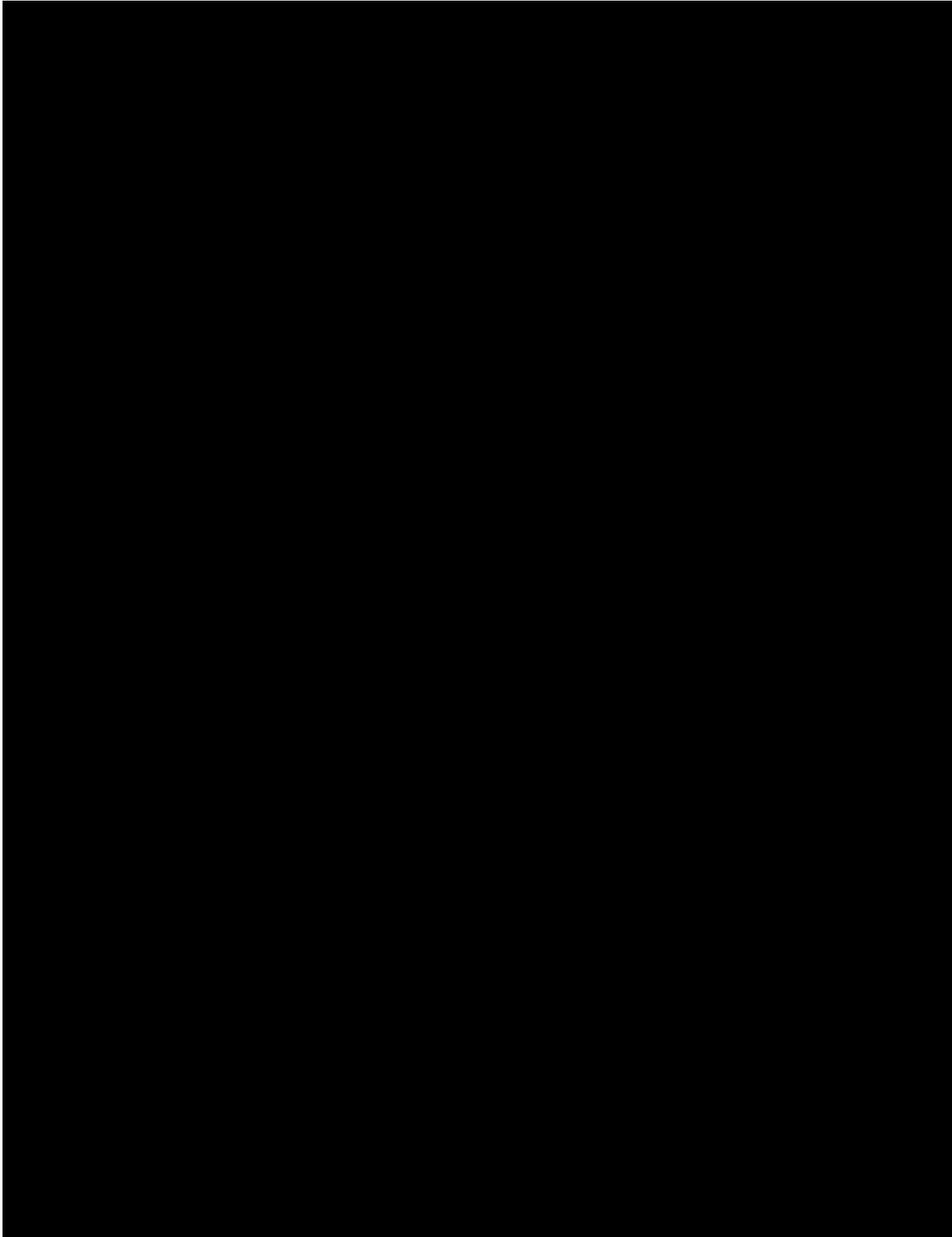
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 74 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 75 of 127

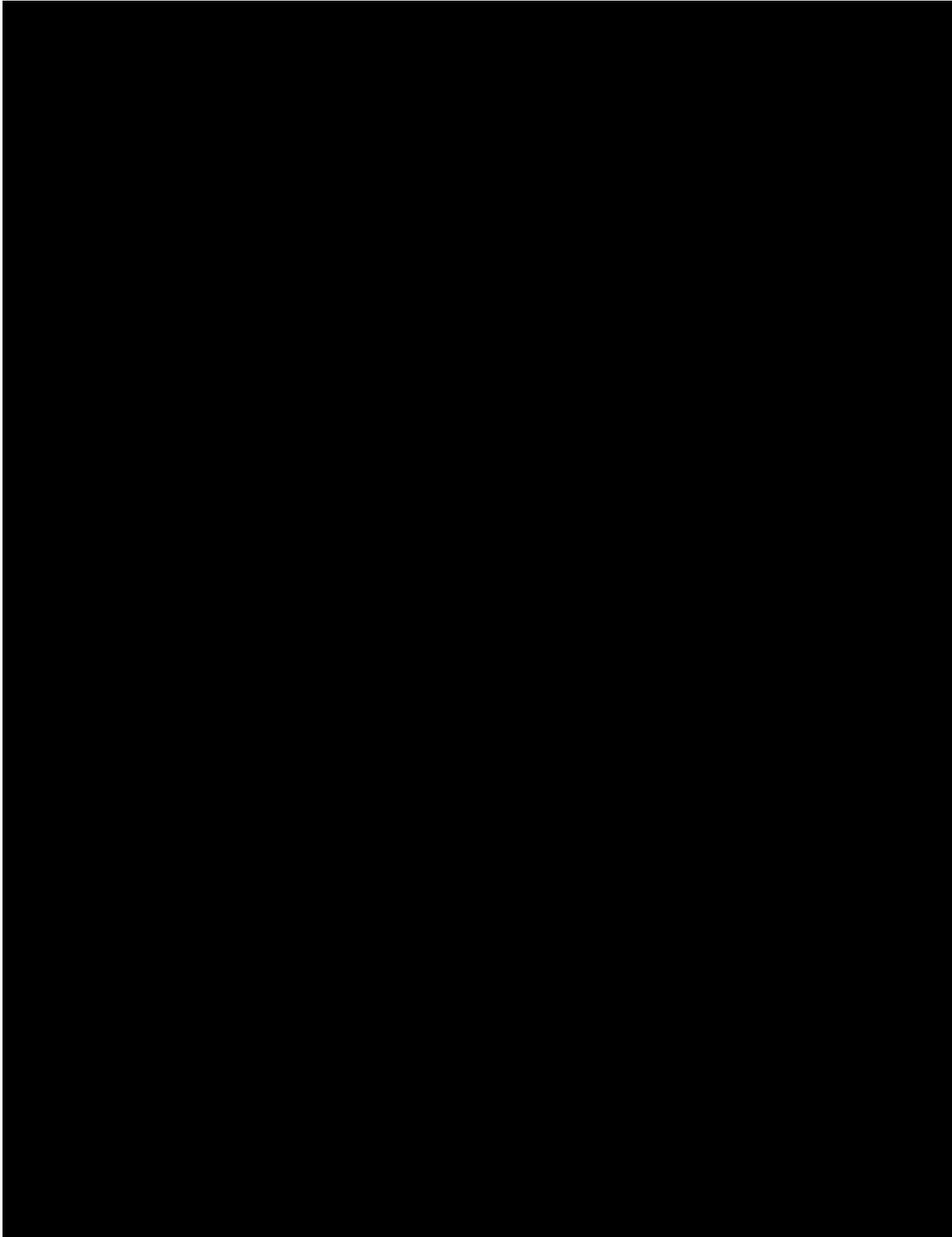
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 75 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 76 of 127

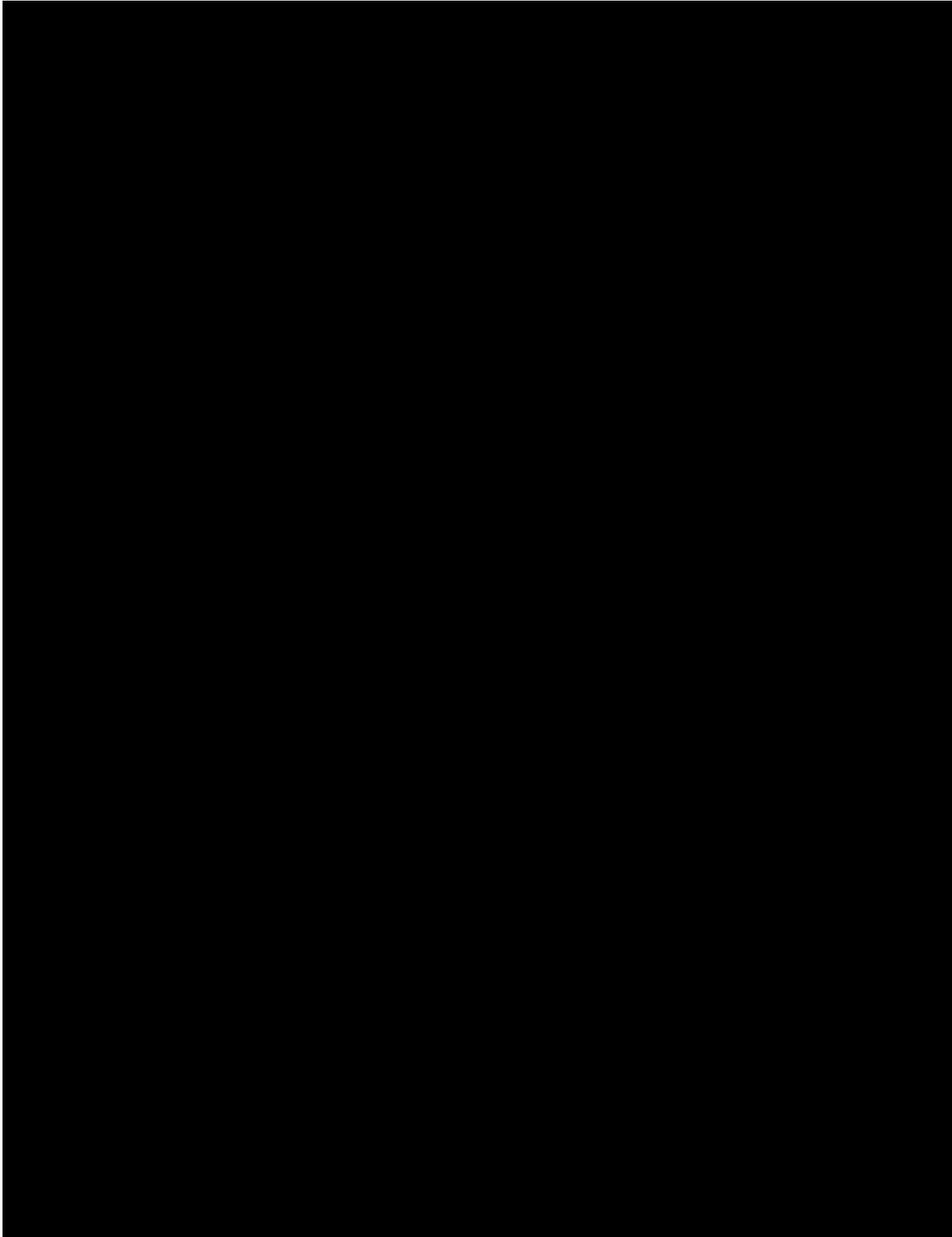
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 76 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 77 of 127

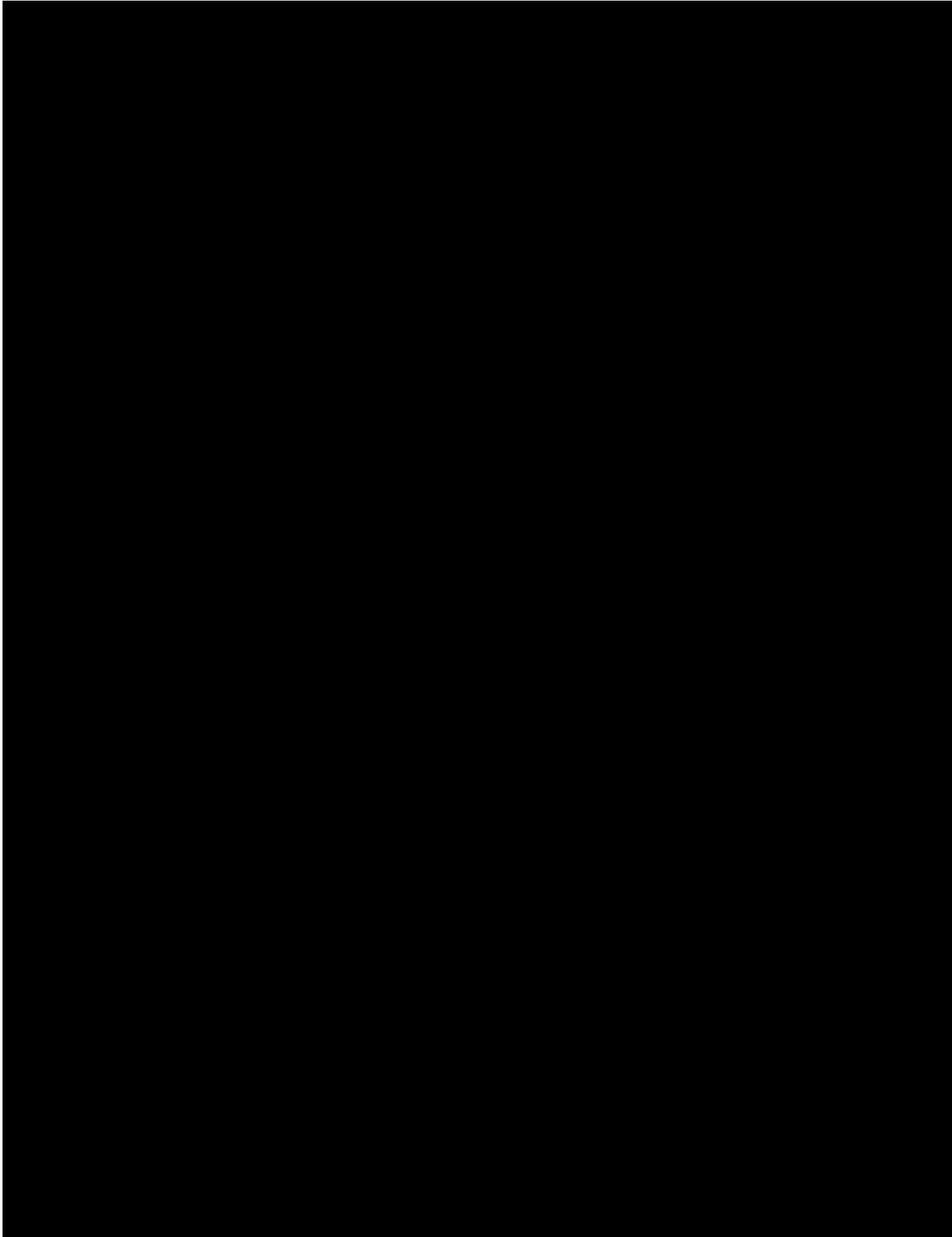
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 77 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 78 of 127

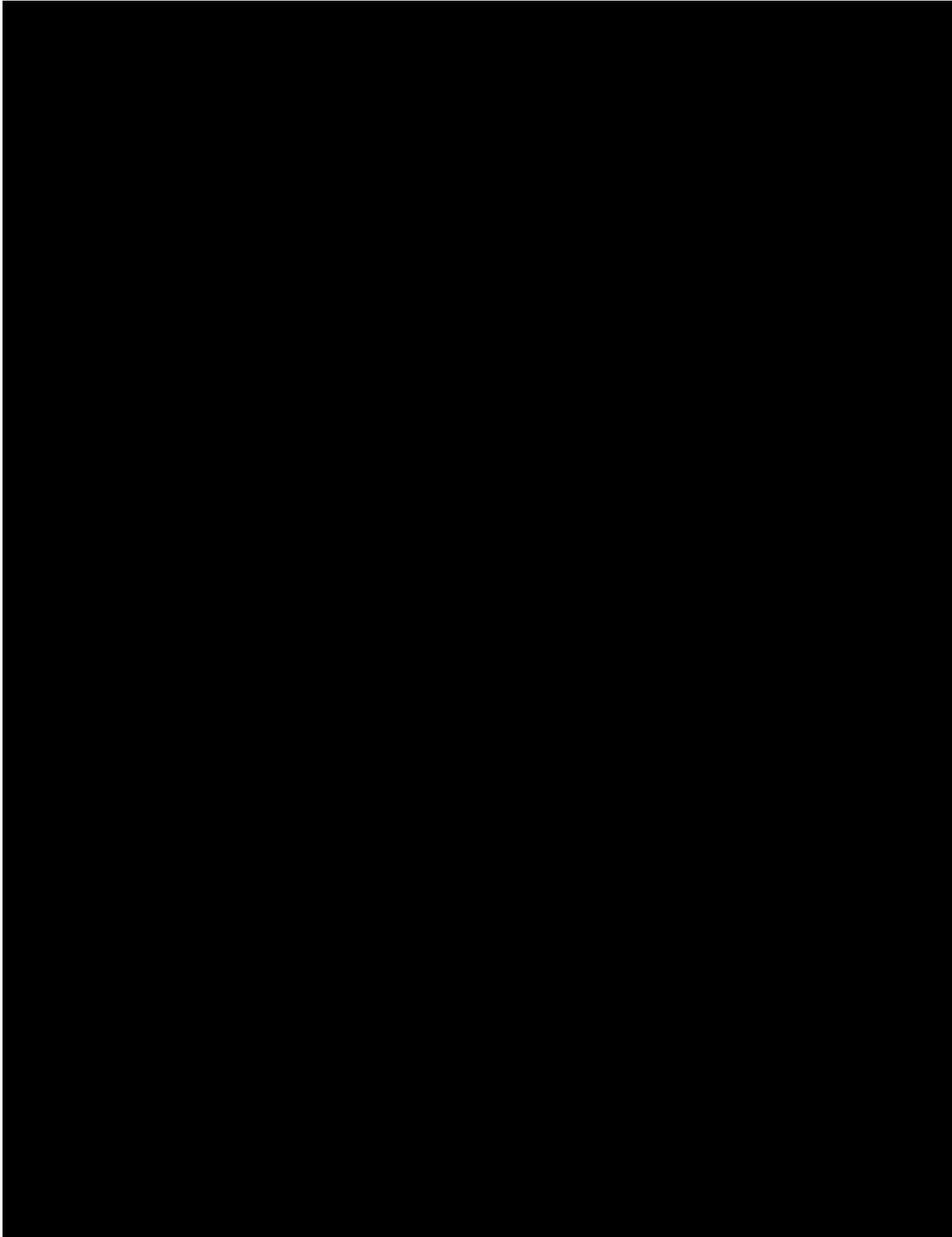
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 78 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 79 of 127

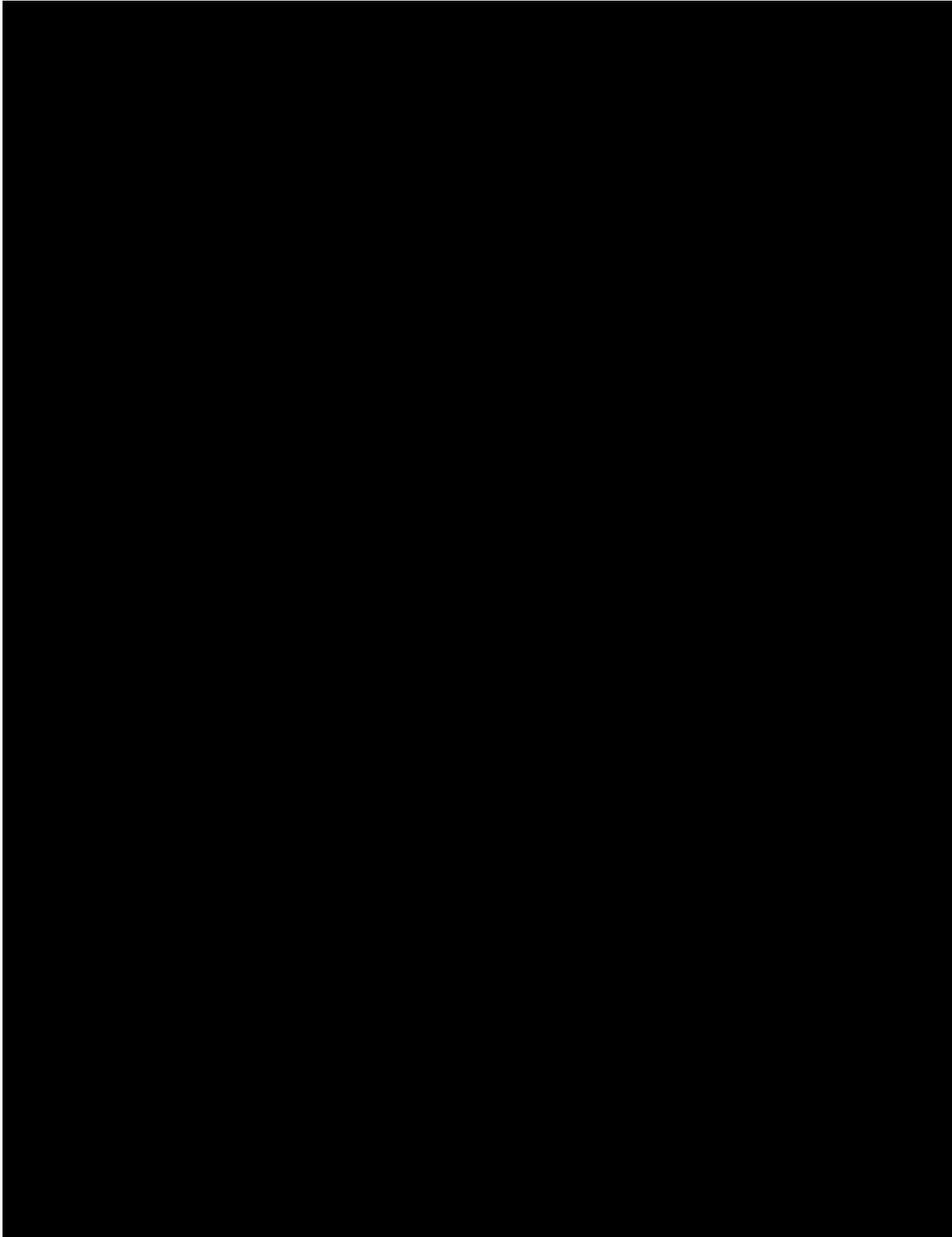
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 79 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 80 of 127

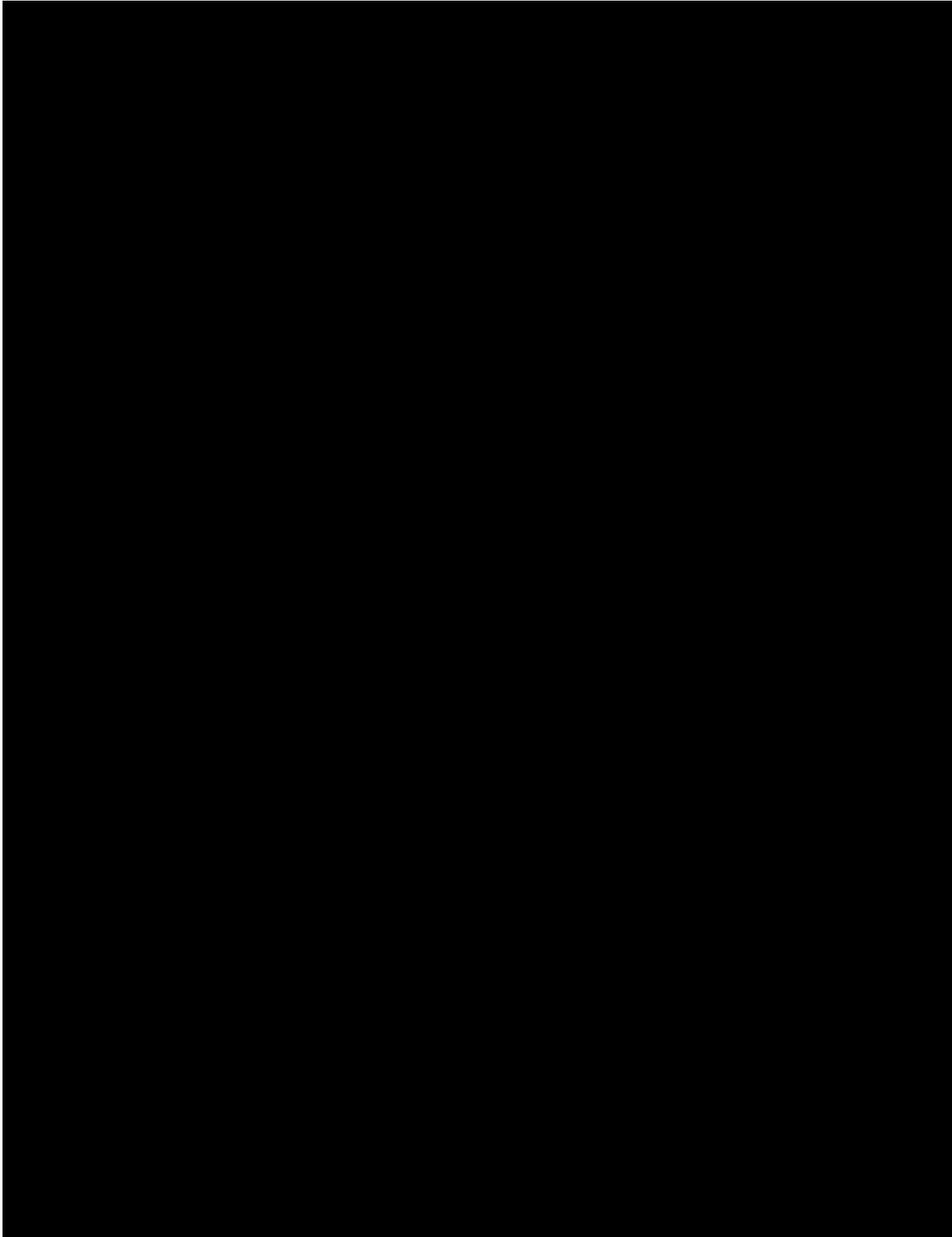
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 80 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 81 of 127

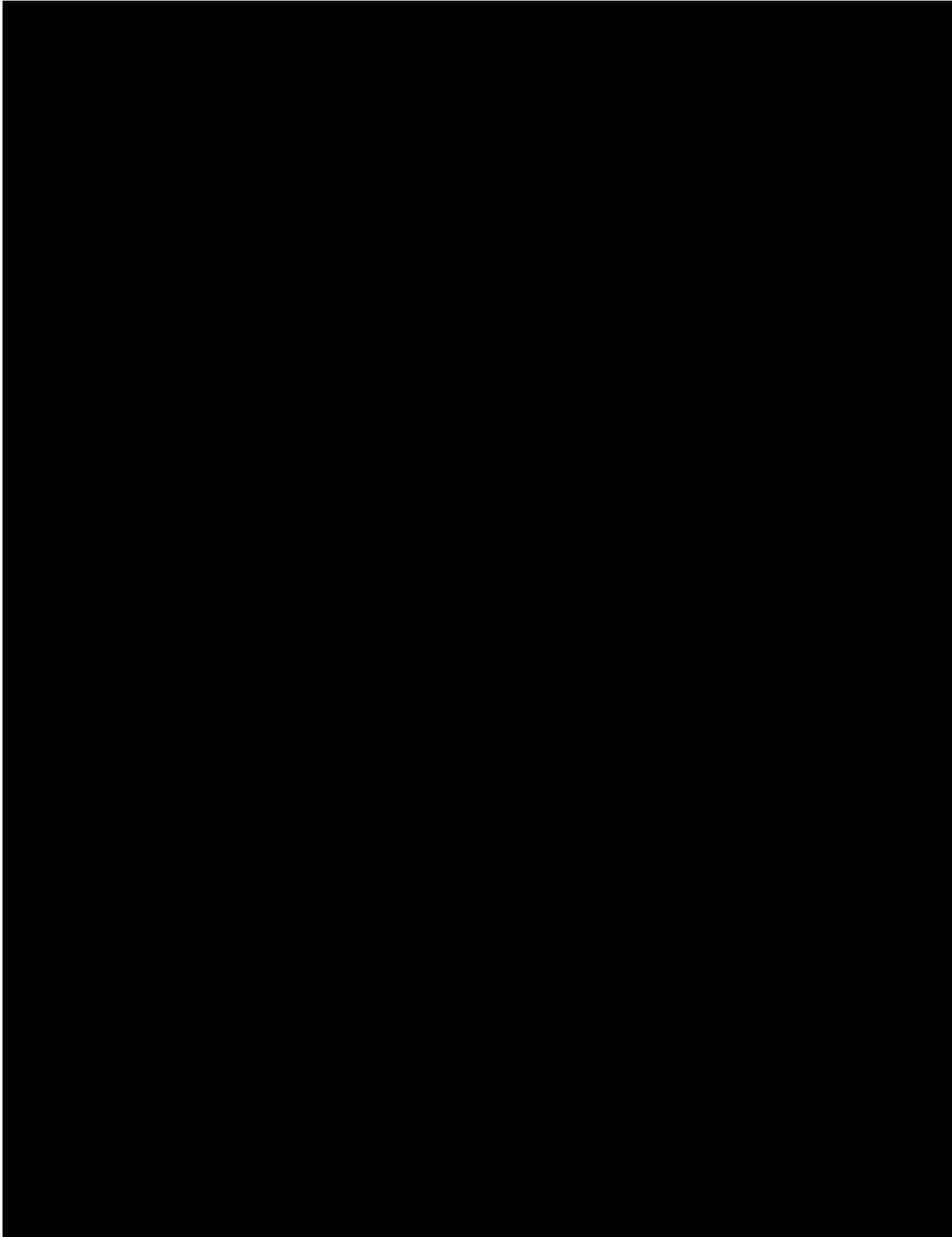
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 81 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 82 of 127

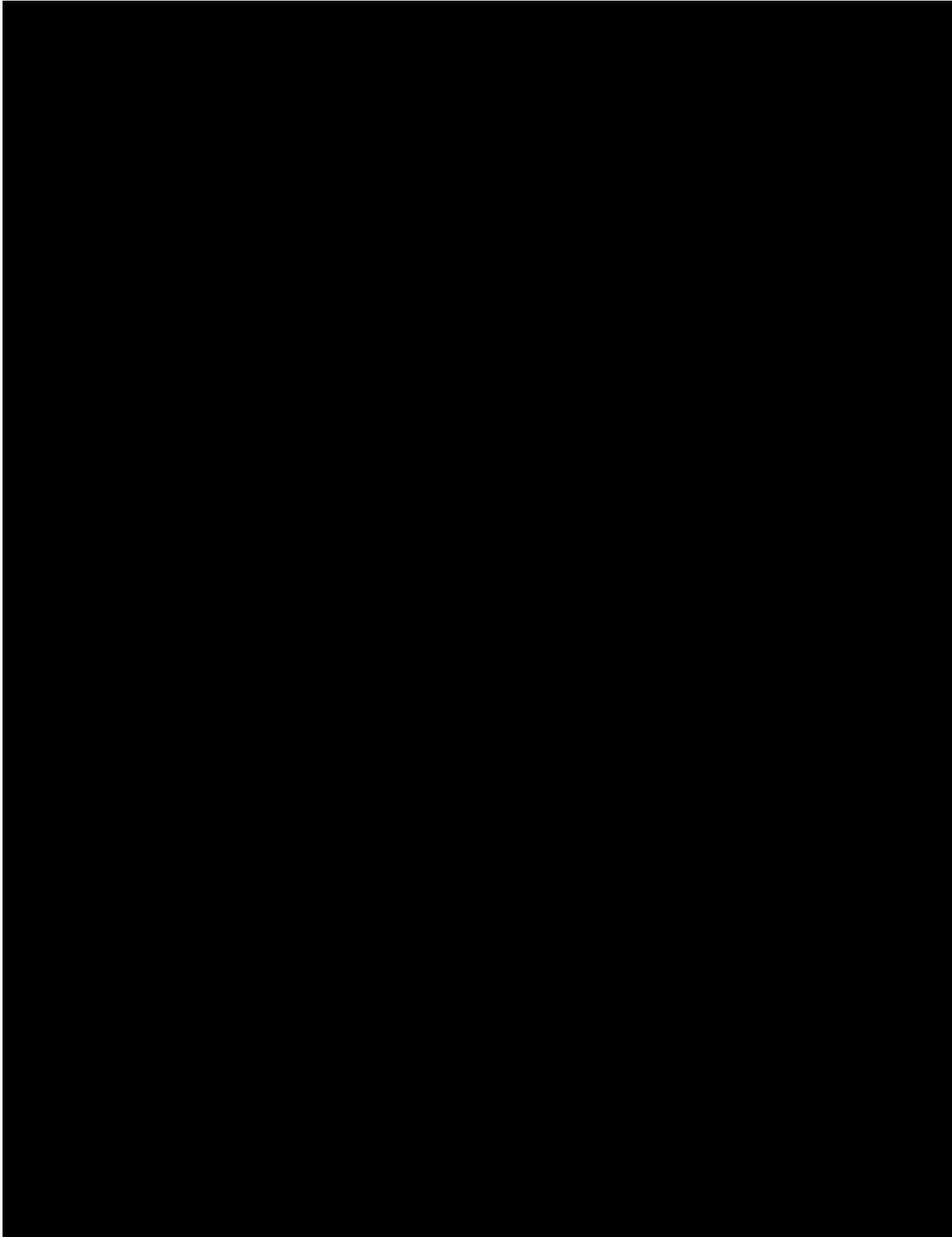
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 82 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 83 of 127

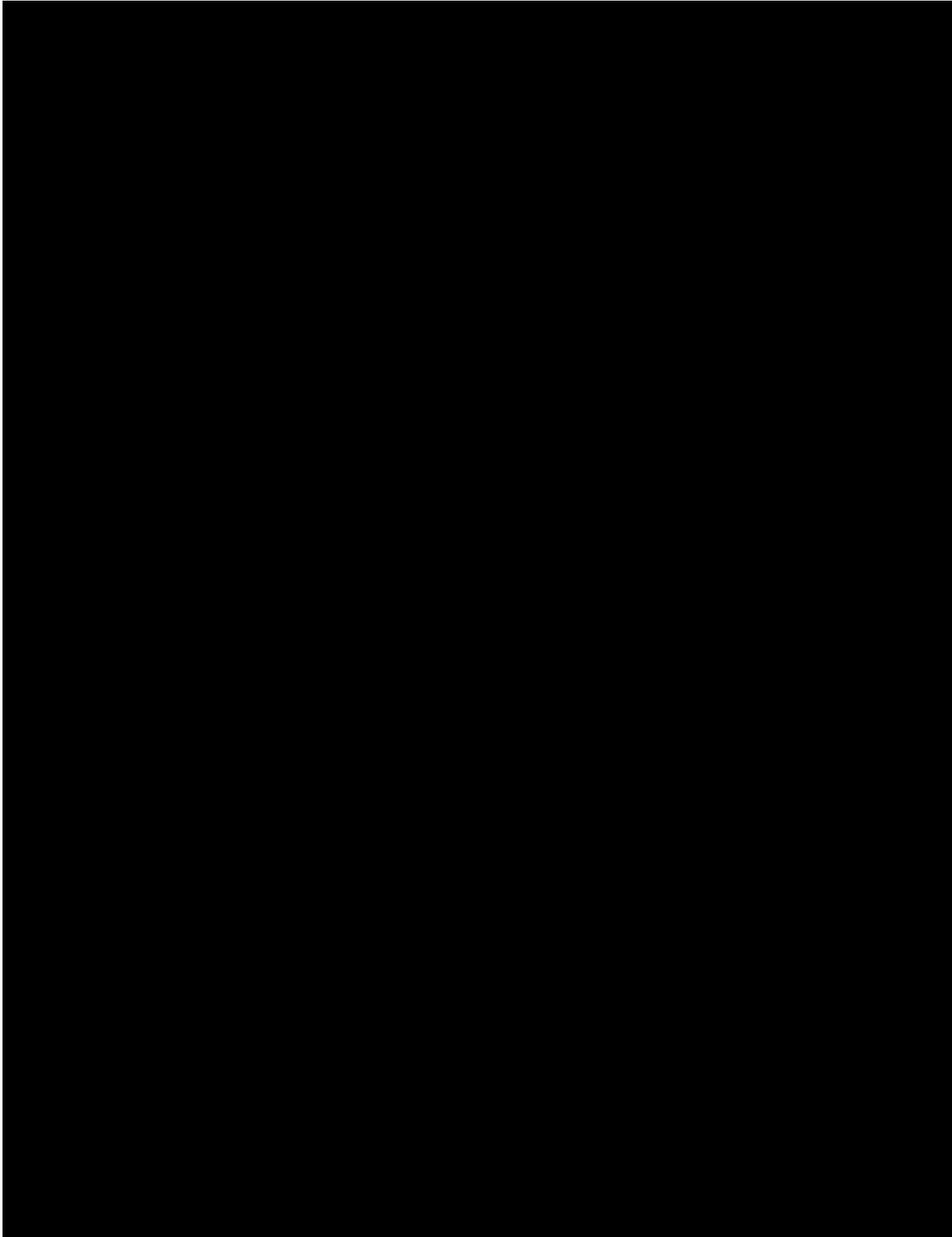
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 83 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 84 of 127

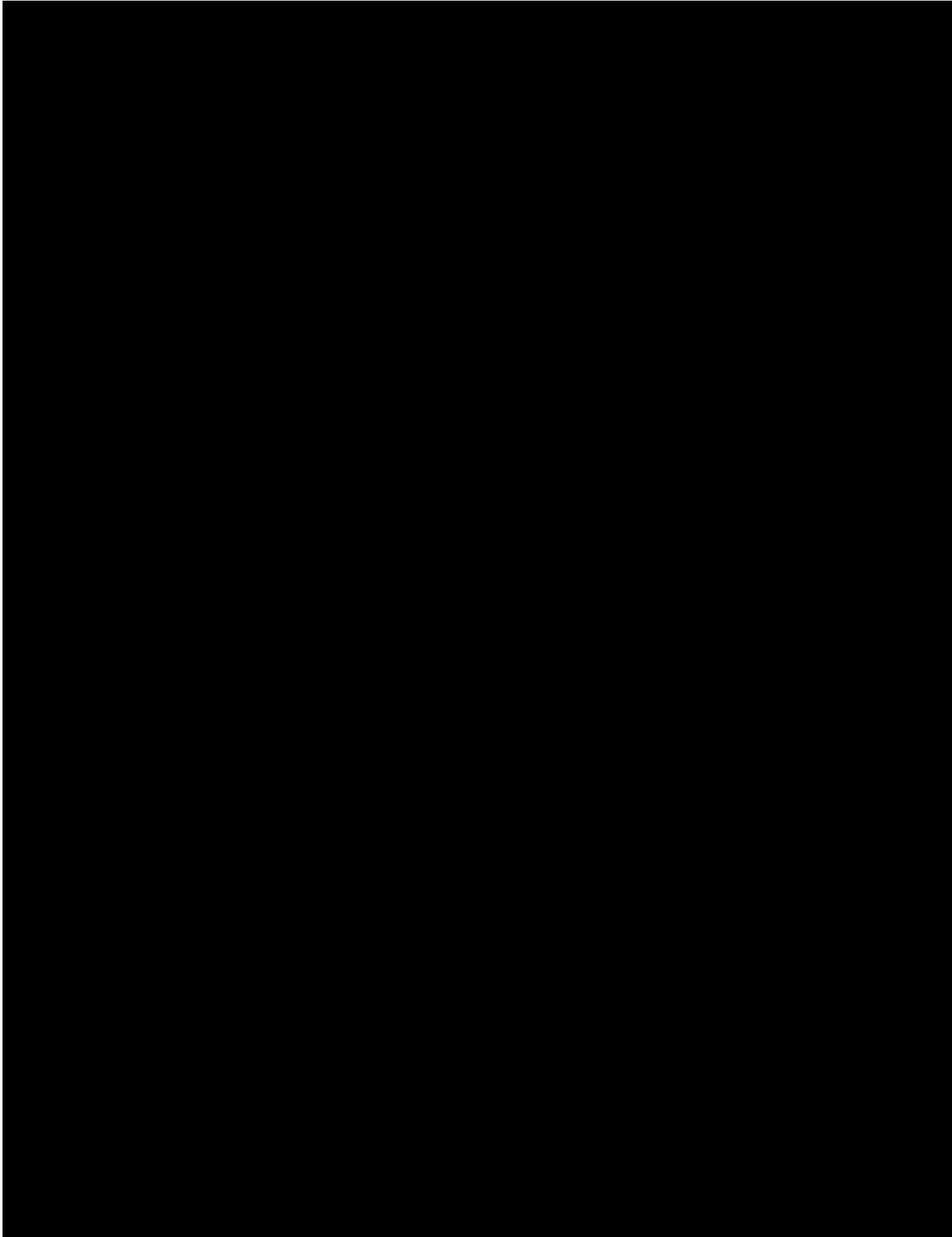
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 84 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 85 of 127

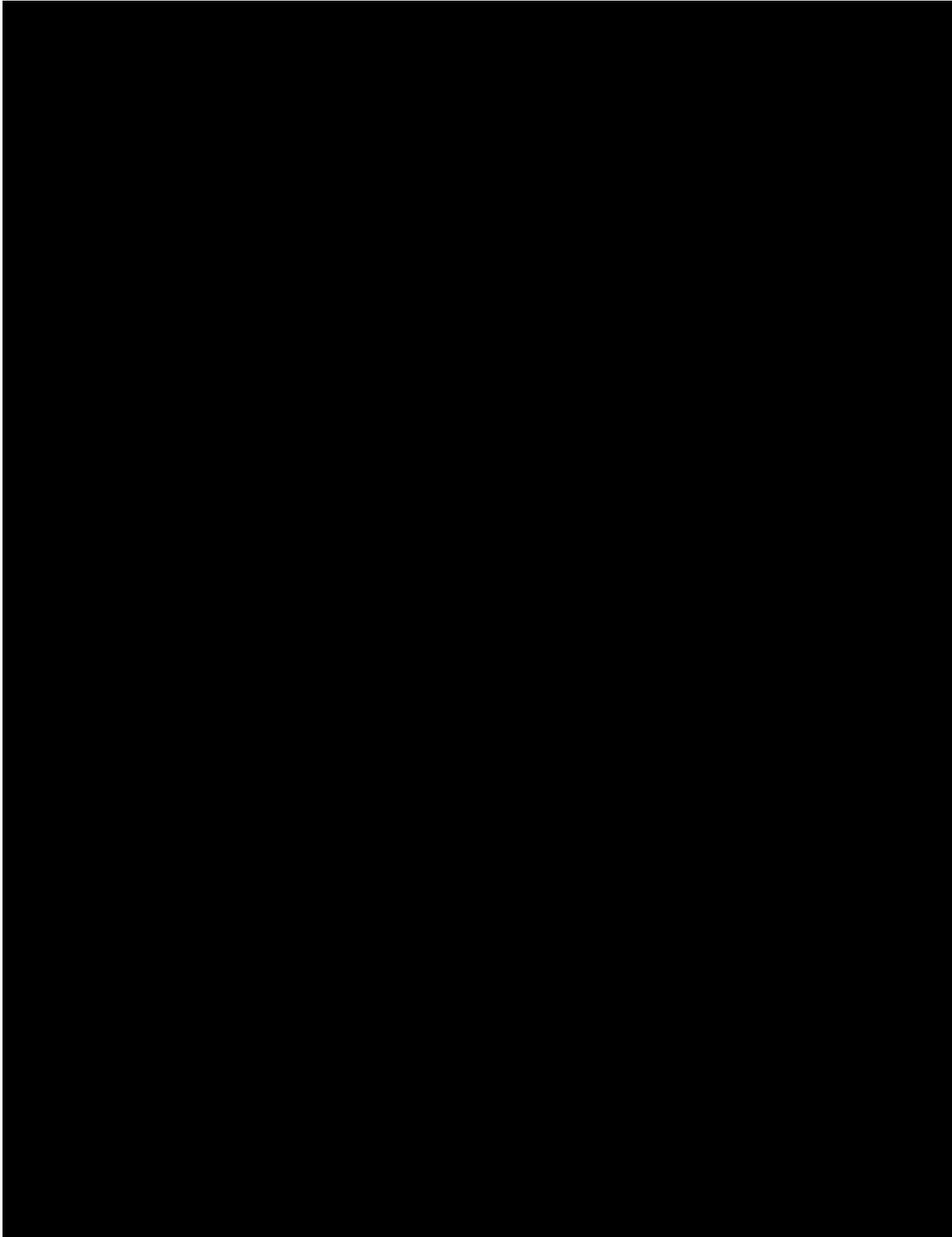
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 85 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 86 of 127

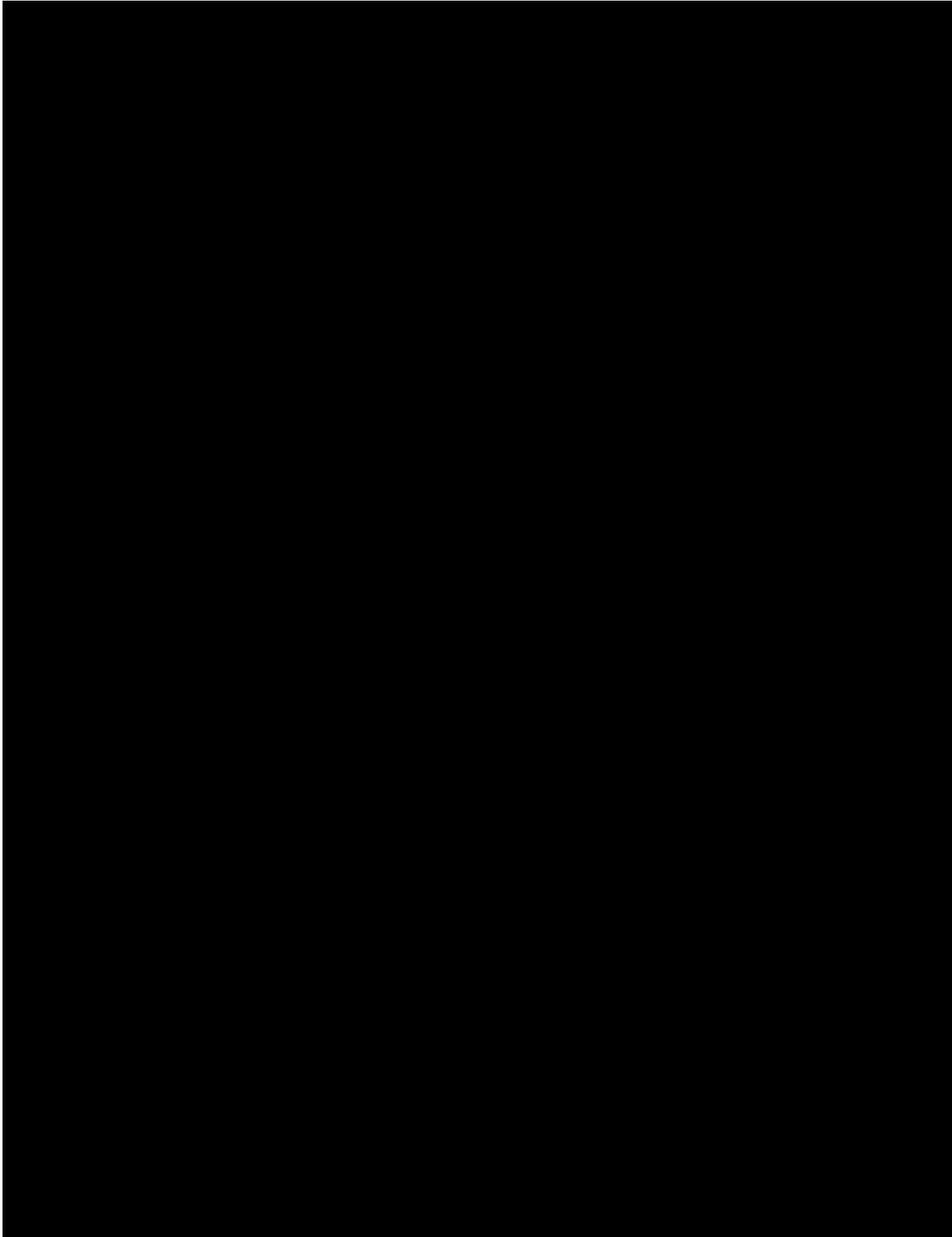
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 86 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 87 of 127

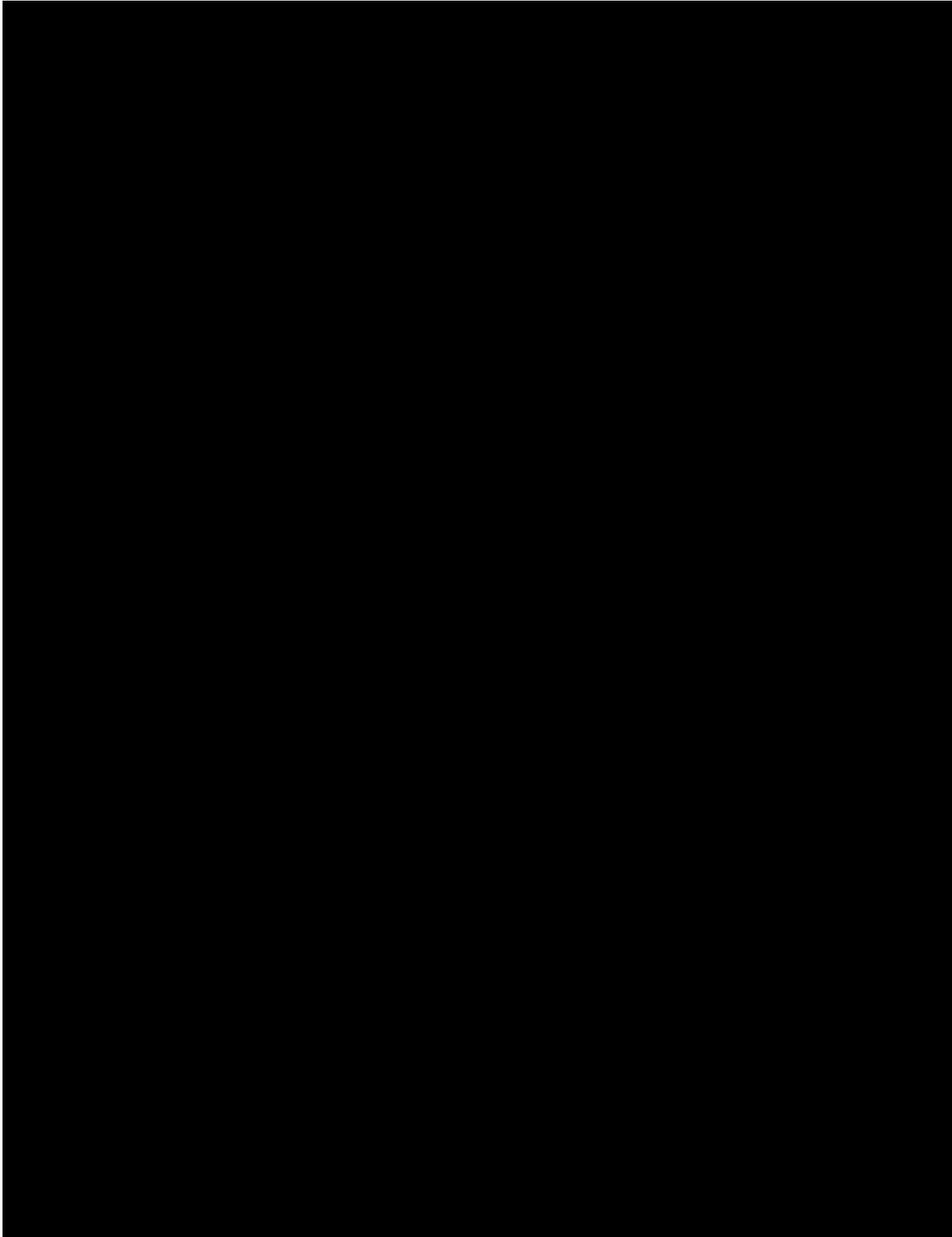
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 87 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 88 of 127

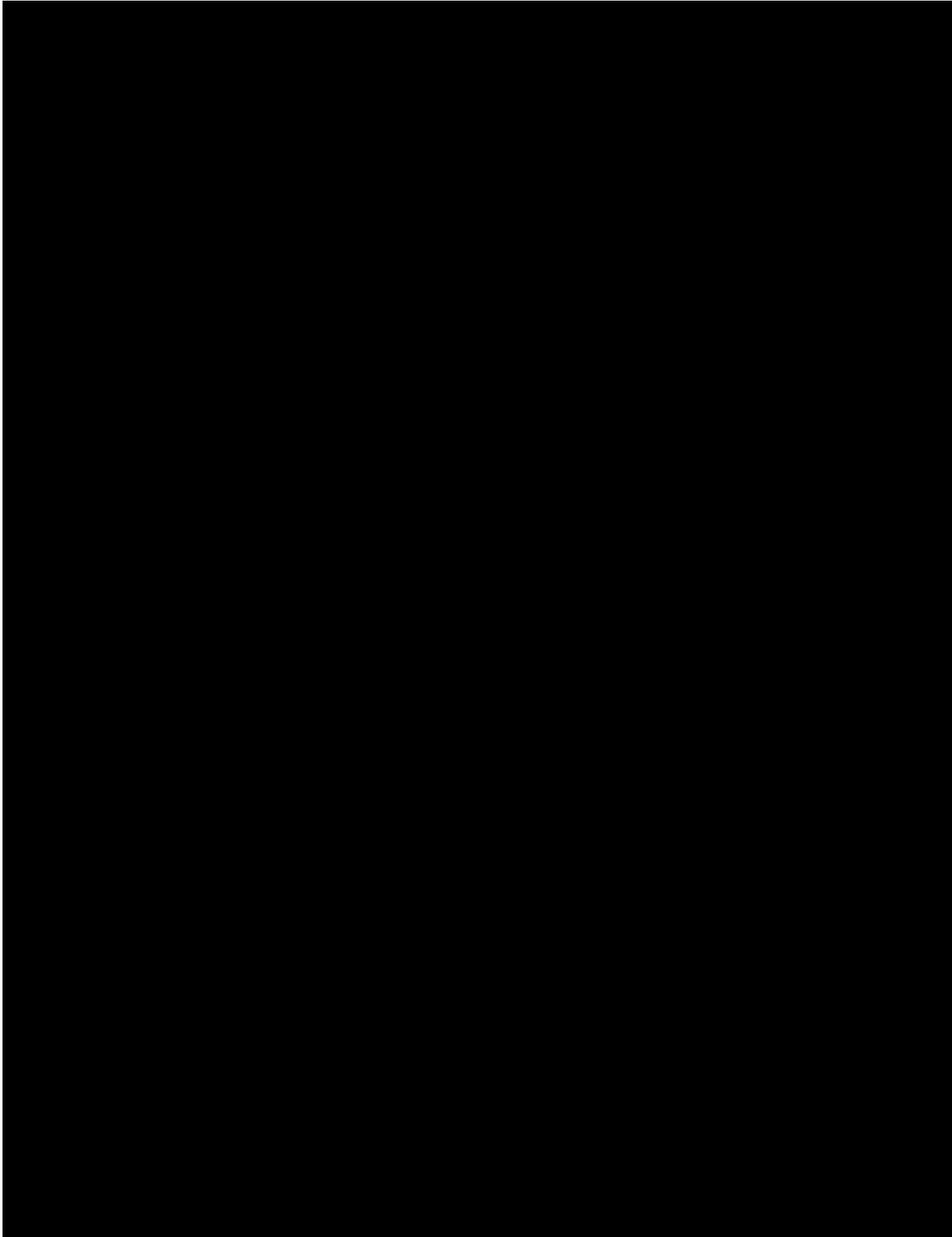
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 88 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 89 of 127

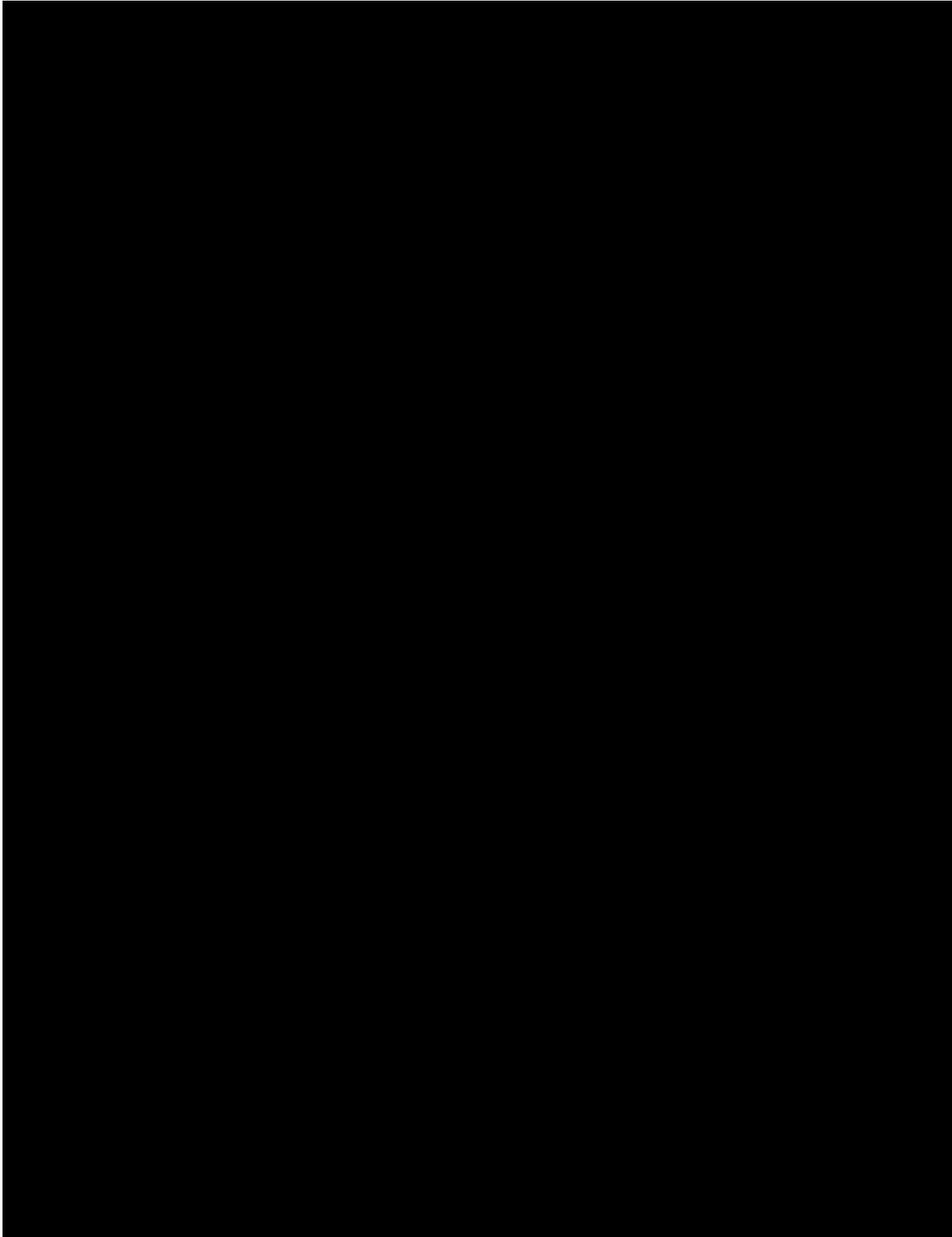
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 89 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 90 of 127

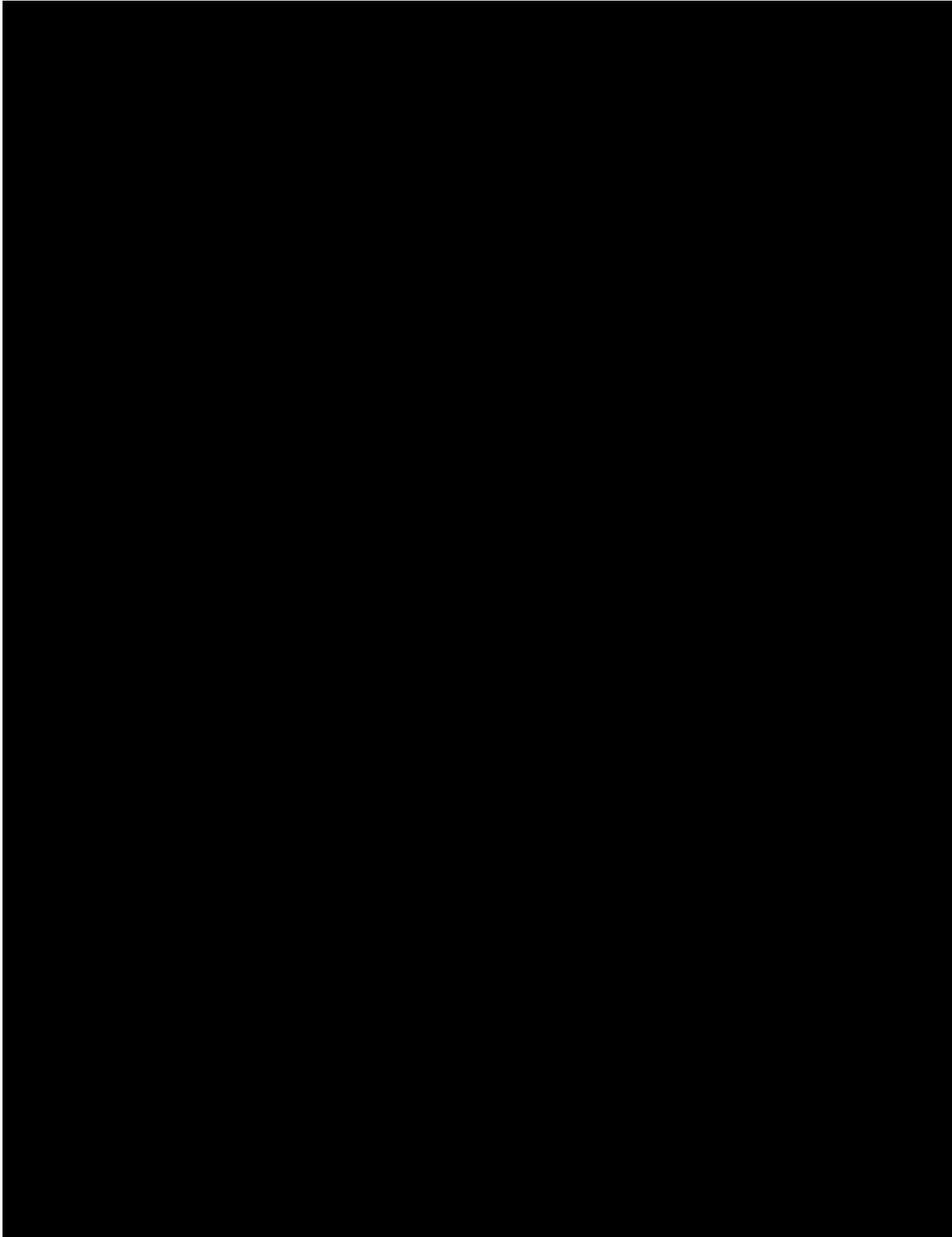
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 90 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 91 of 127

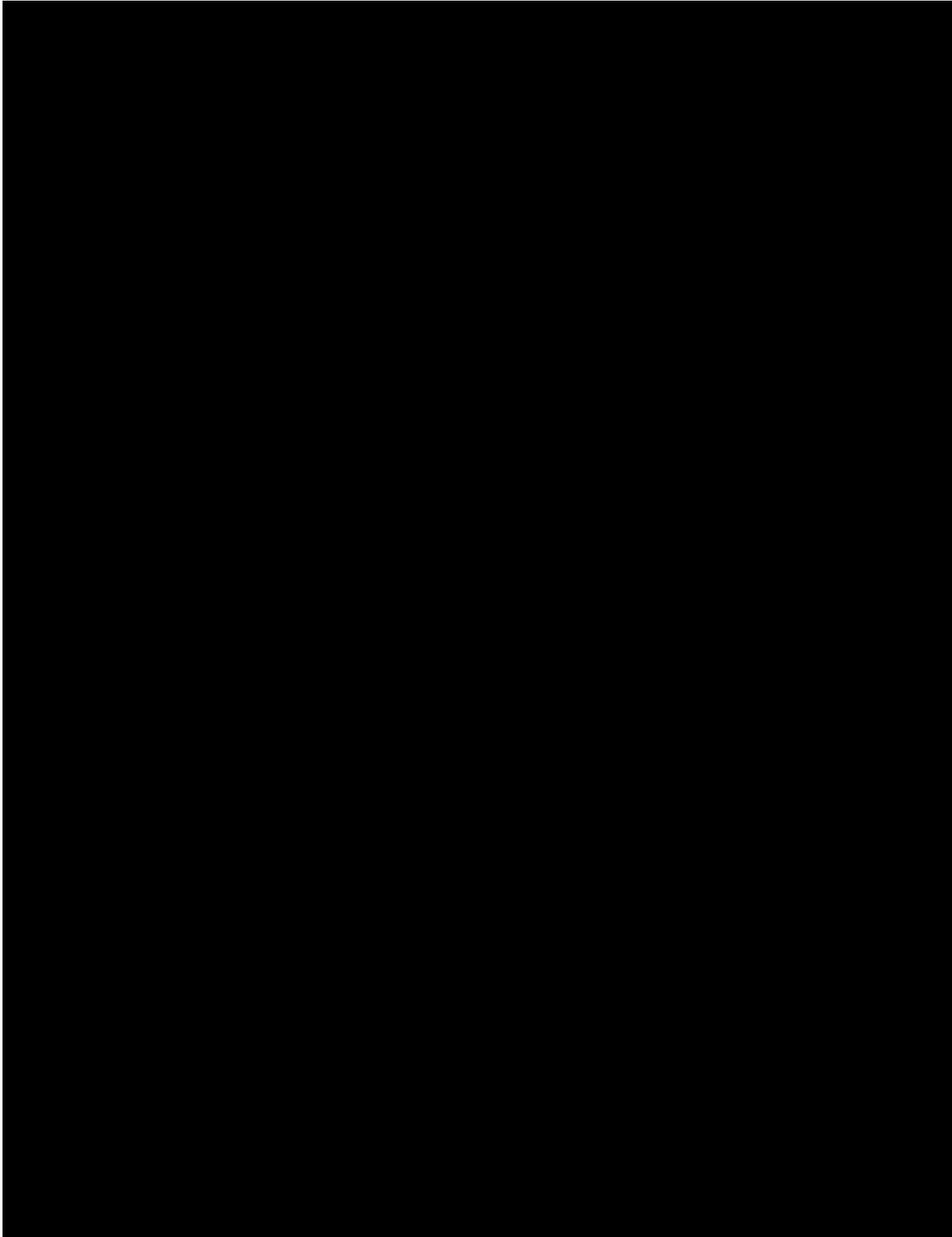
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 91 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 92 of 127

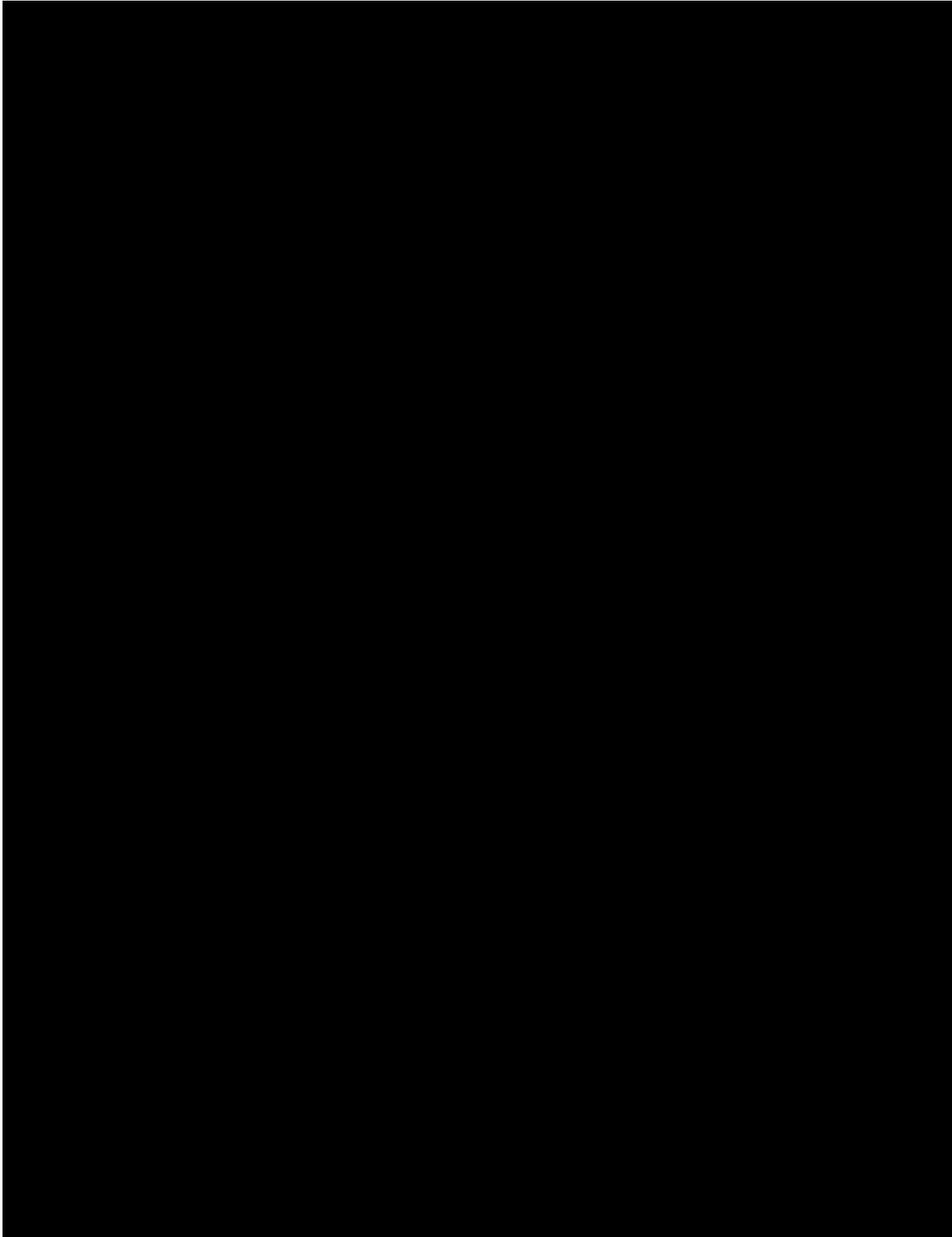
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 92 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 93 of 127

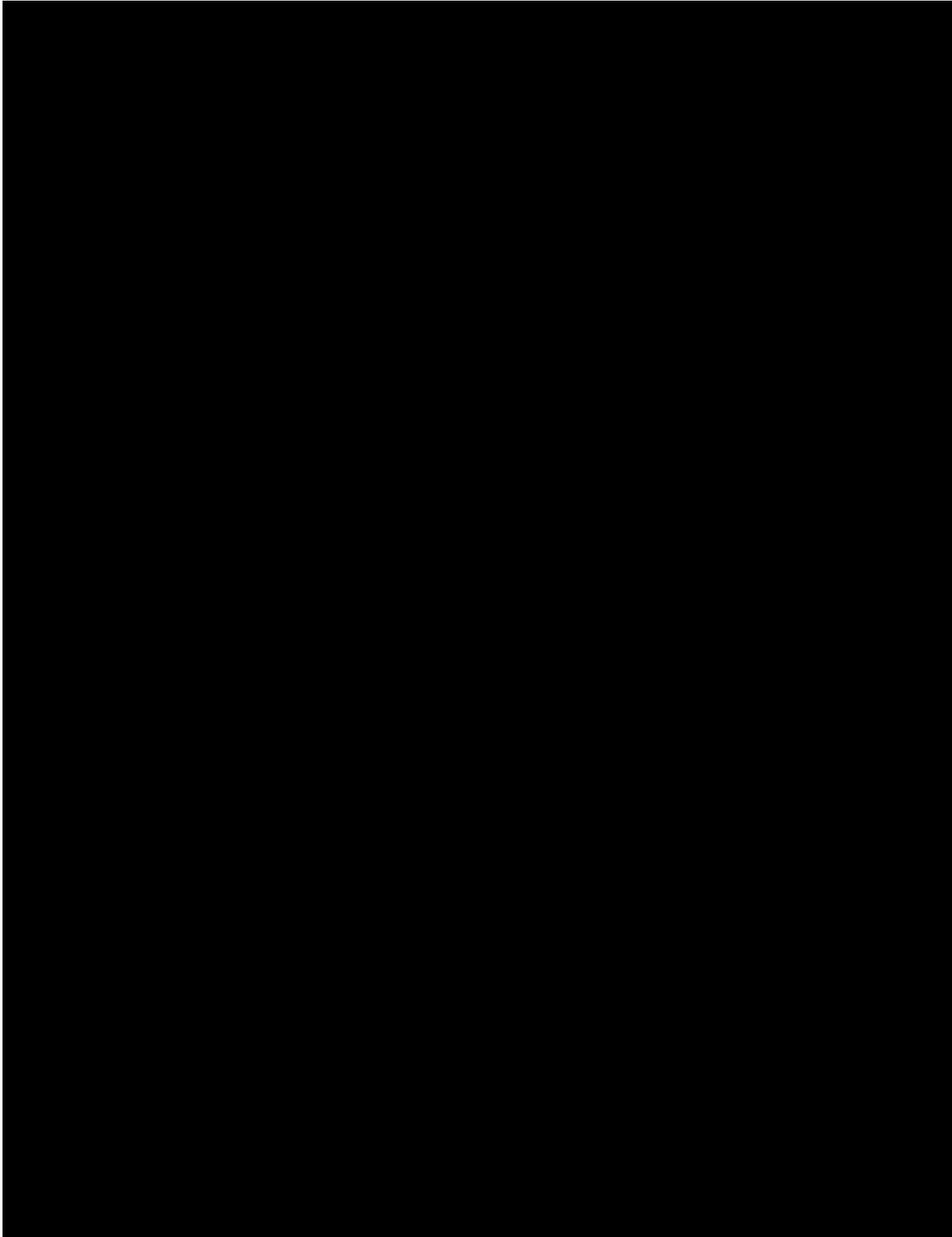
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 93 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 94 of 127

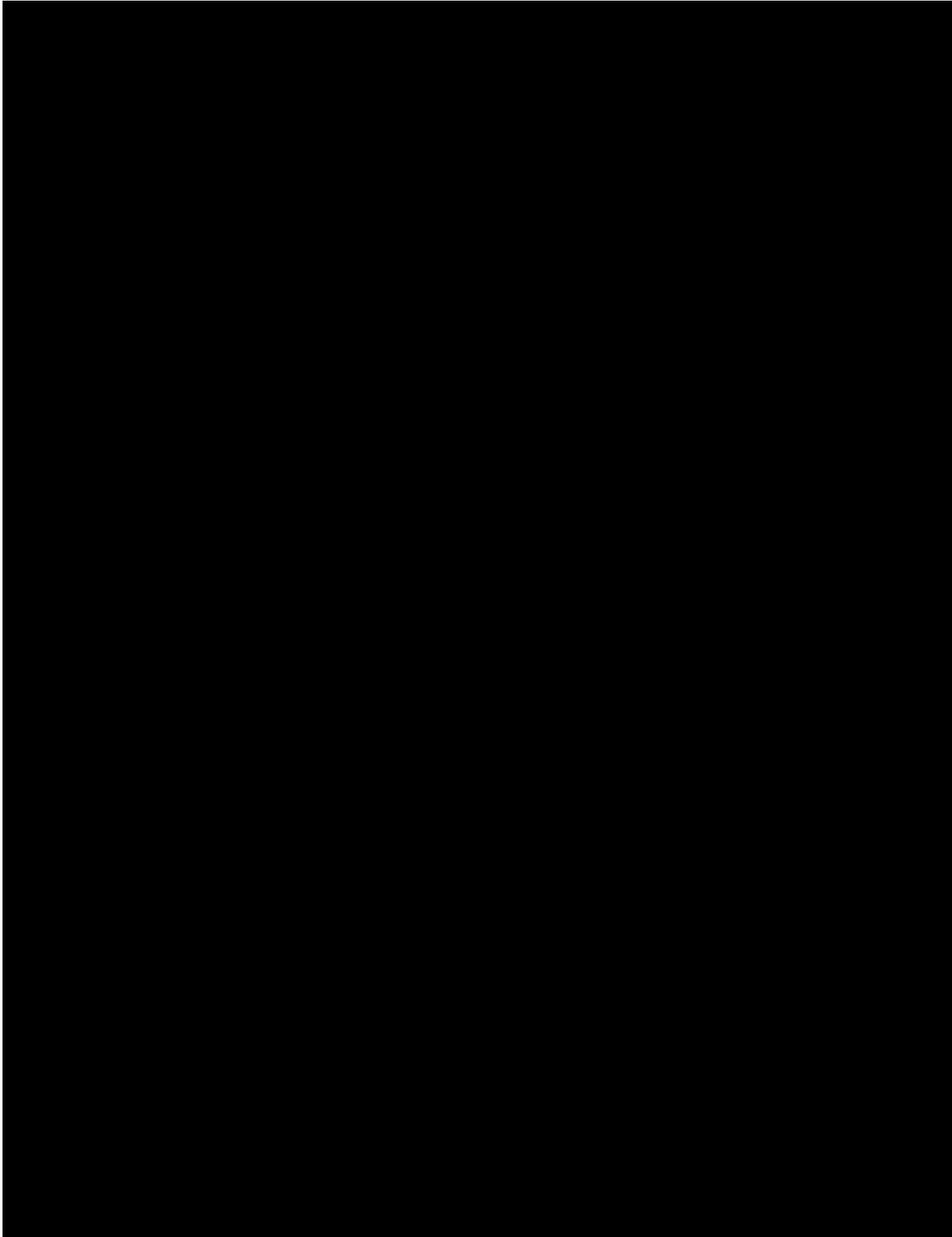
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 94 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 95 of 127

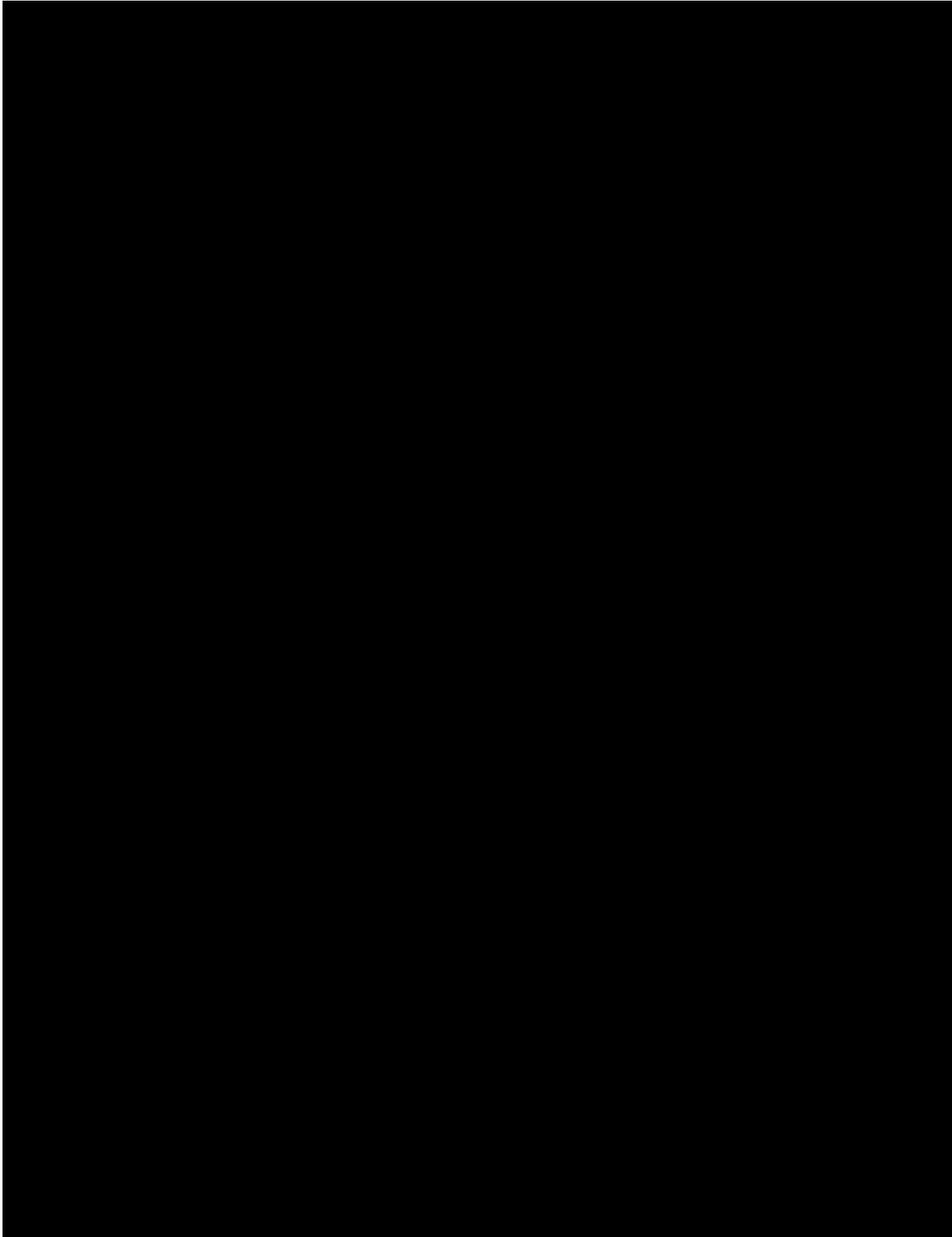
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 95 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 96 of 127

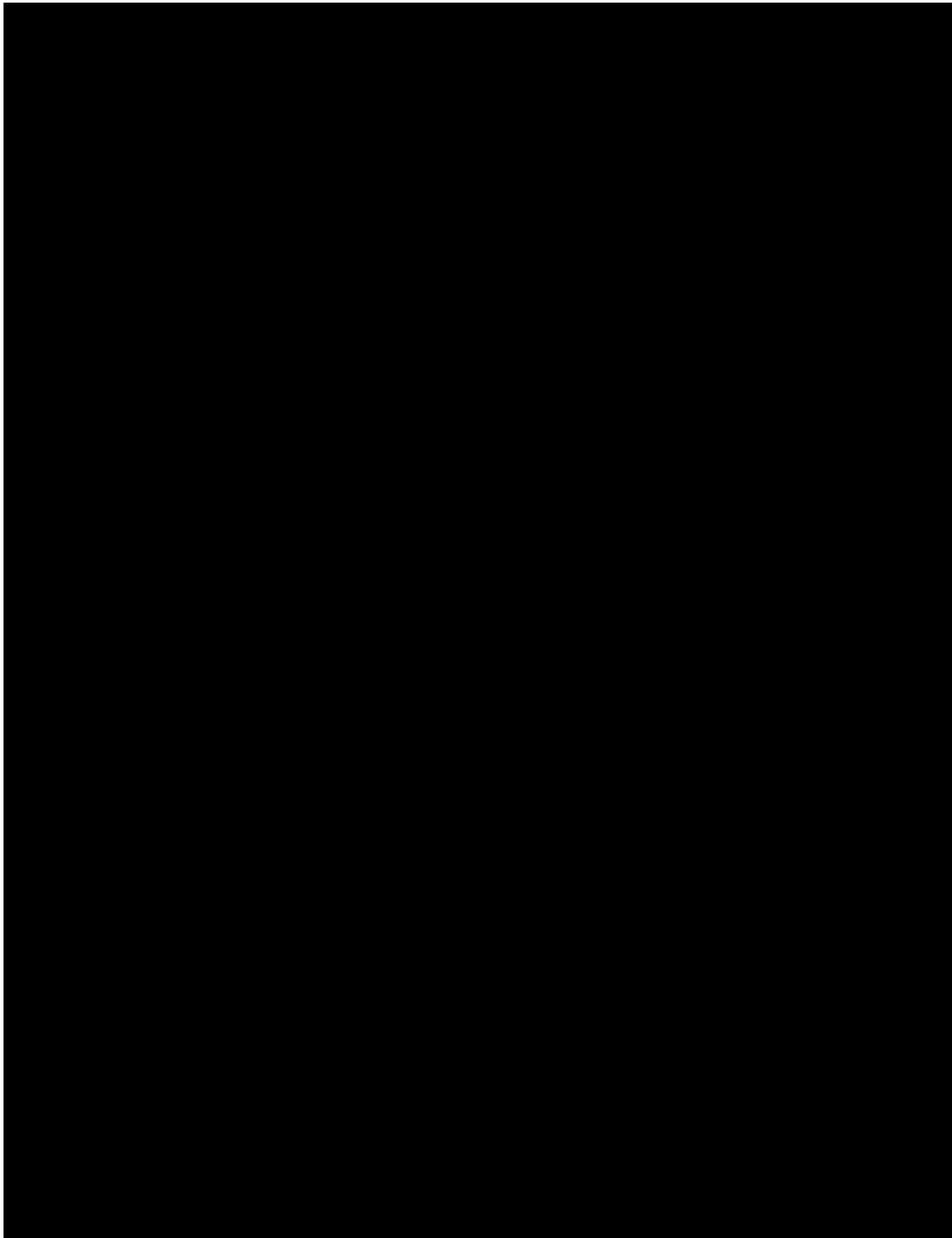
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 96 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 97 of 127

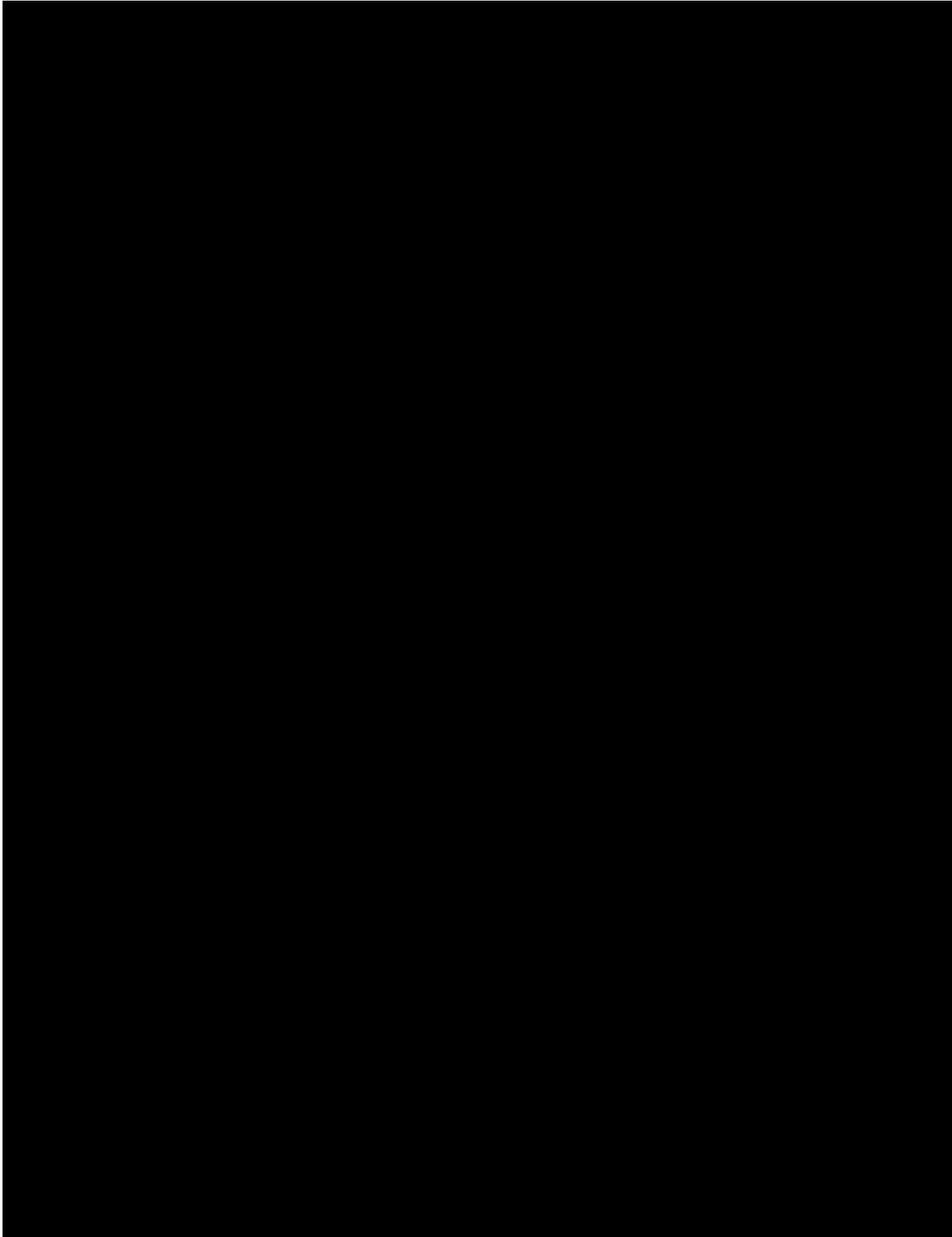
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 97 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 98 of 127

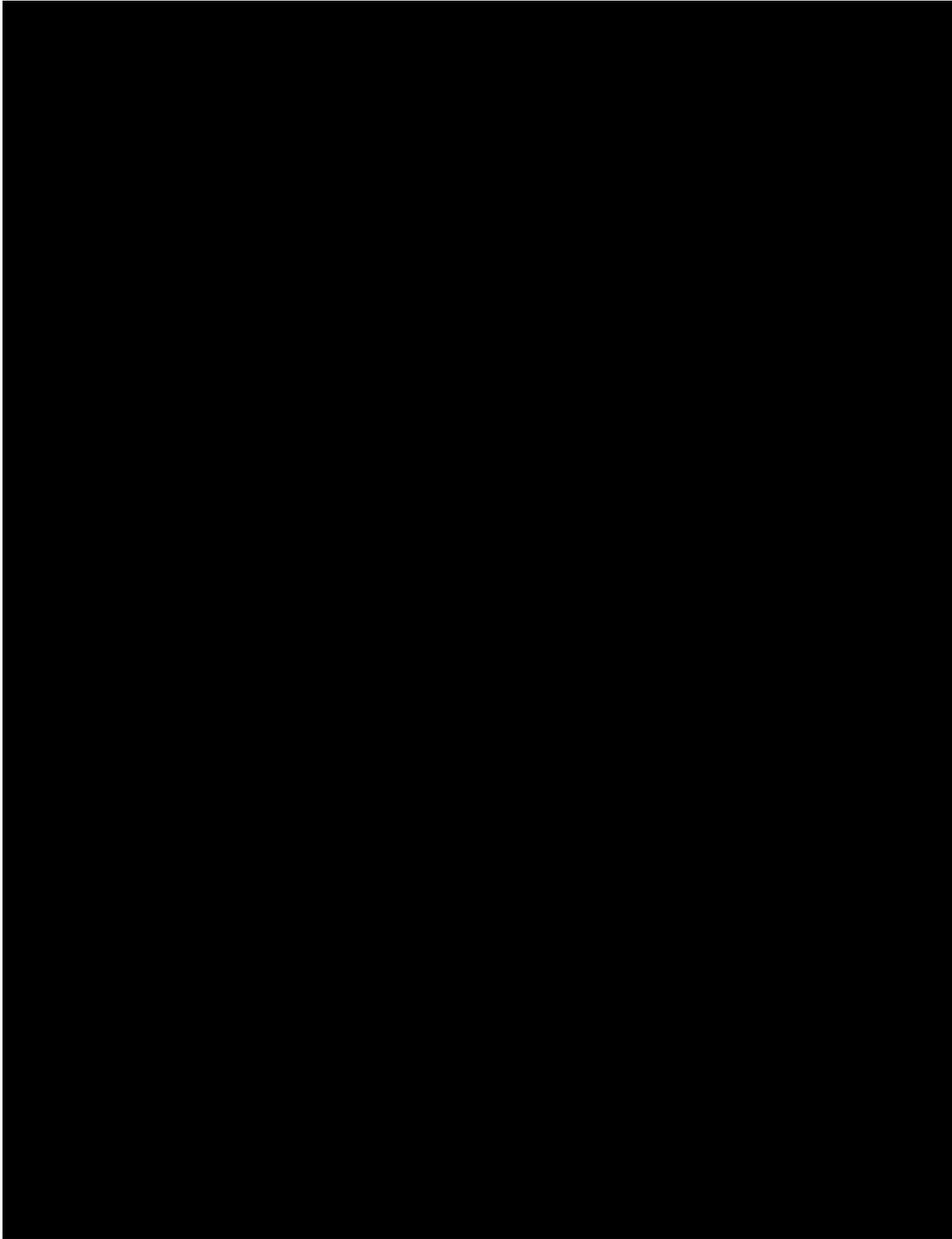
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 98 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 99 of 127

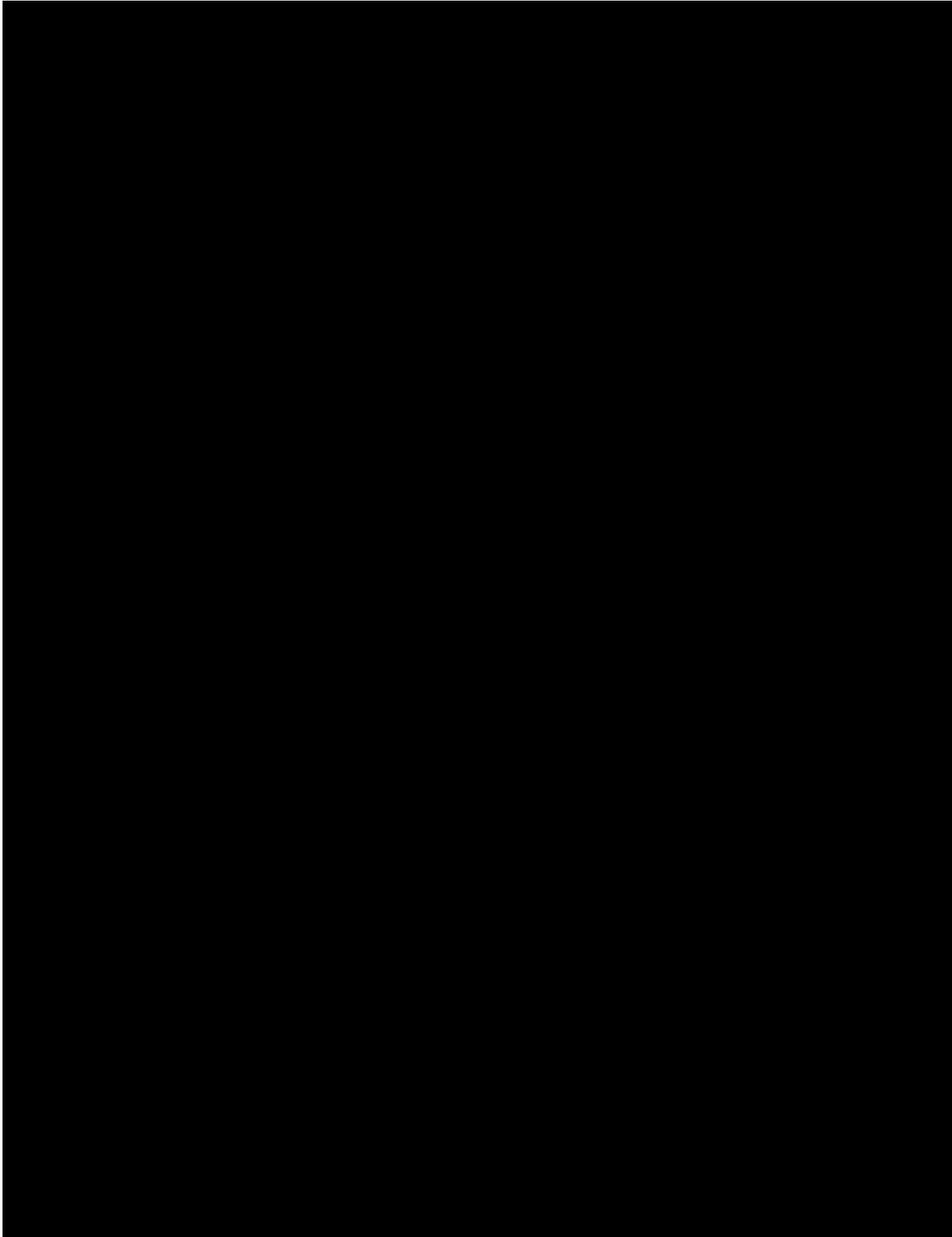
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 99 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 100 of 127

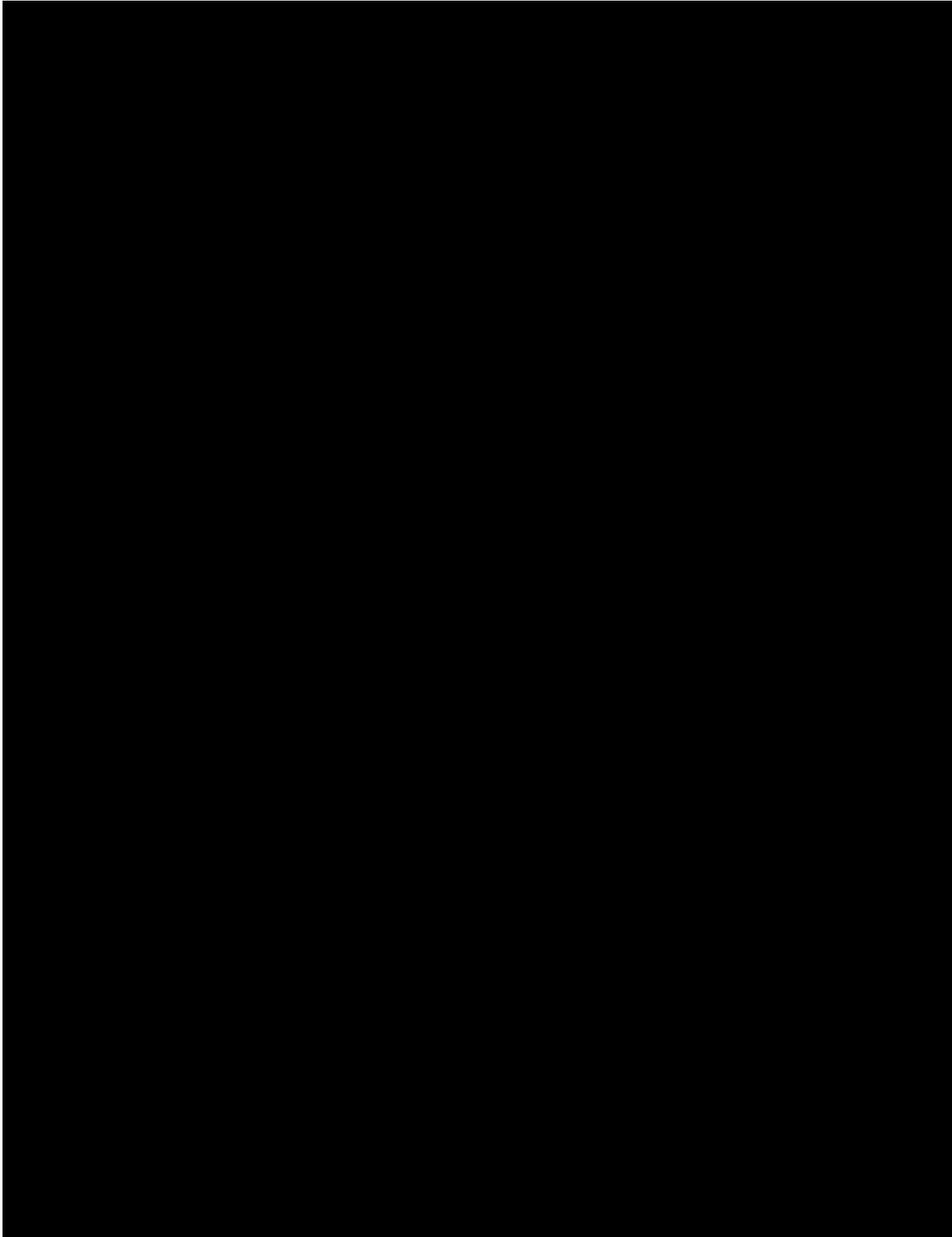
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 100 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 101 of 127

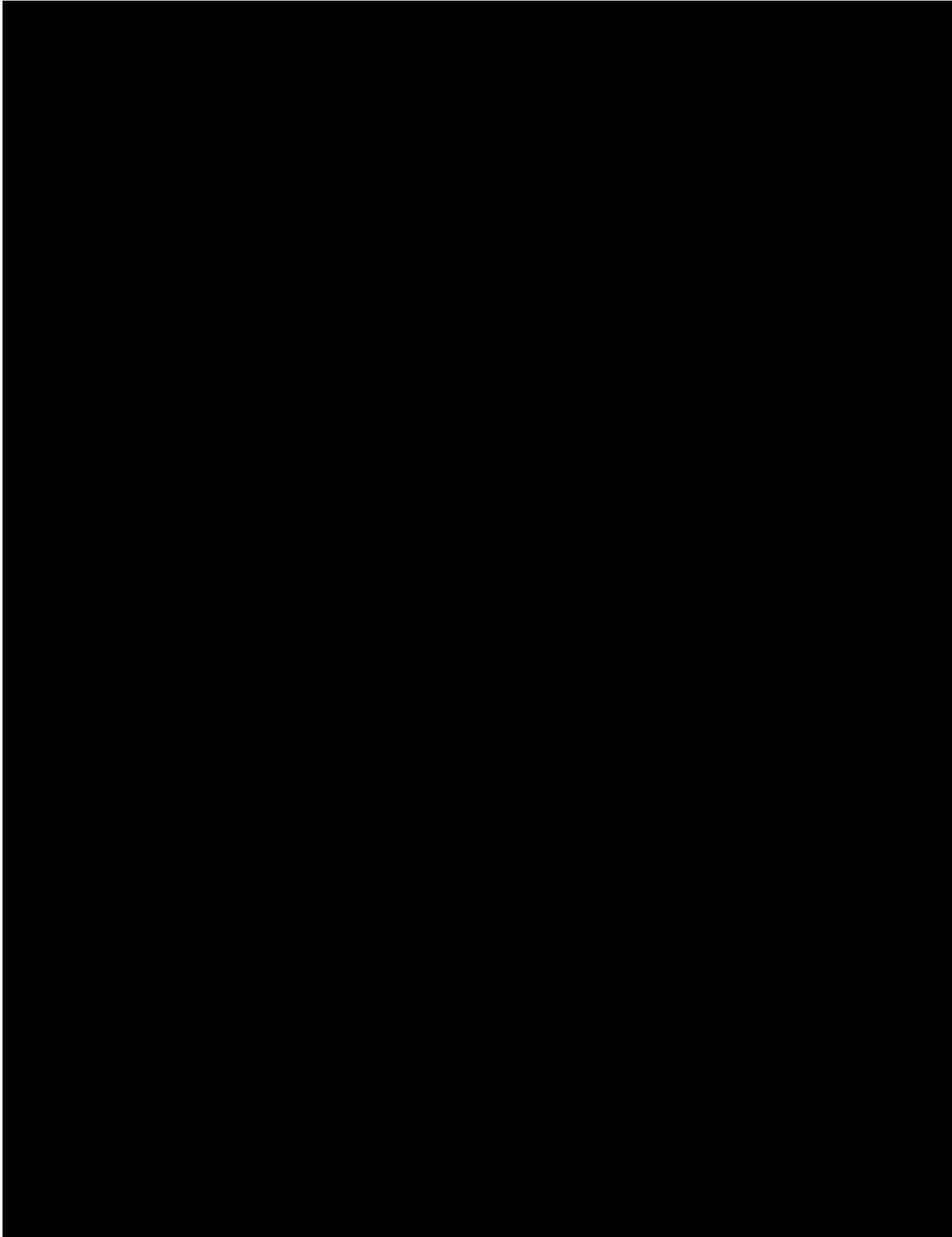
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 101 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 102 of 127

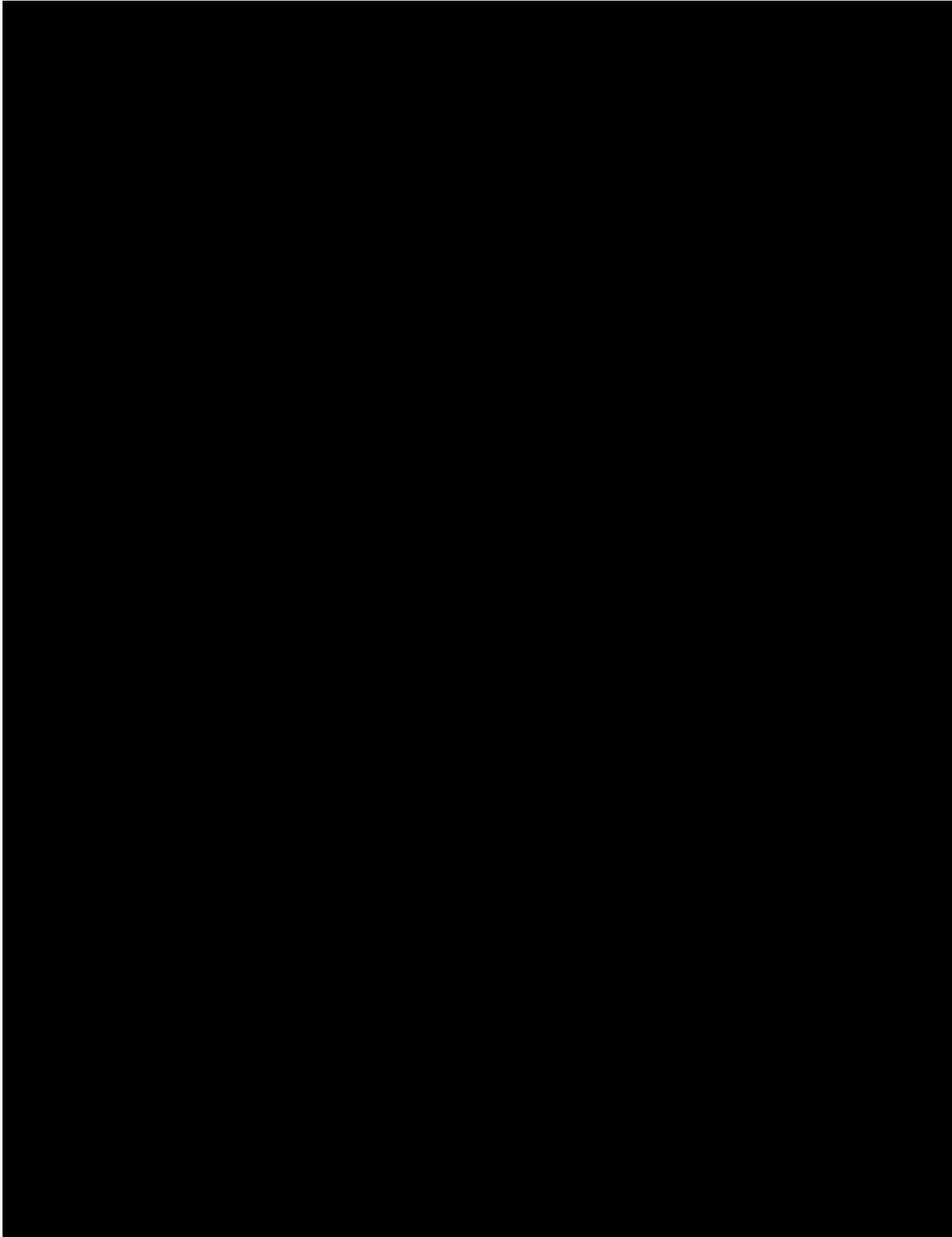
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 102 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 103 of 127

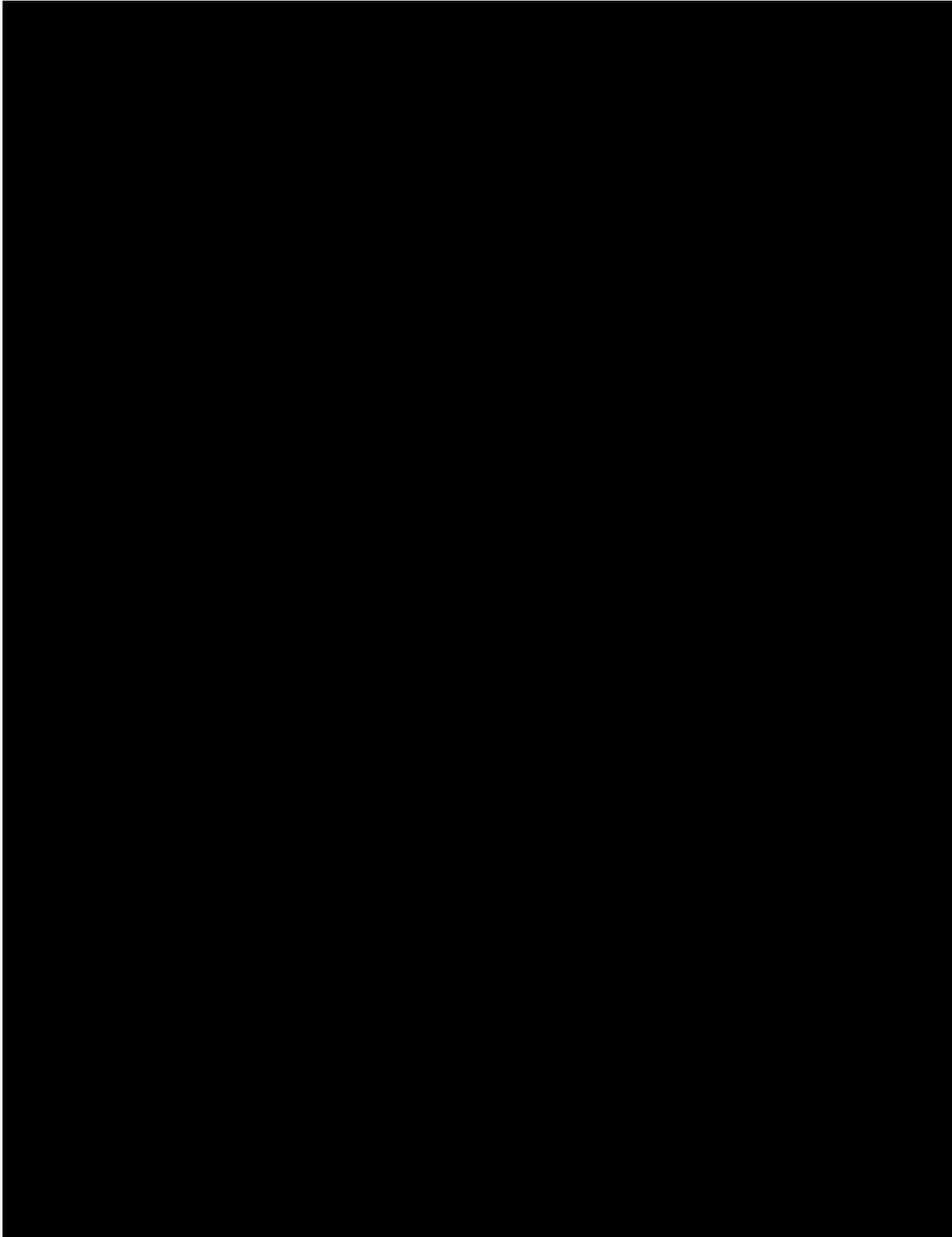
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 103 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 104 of 127

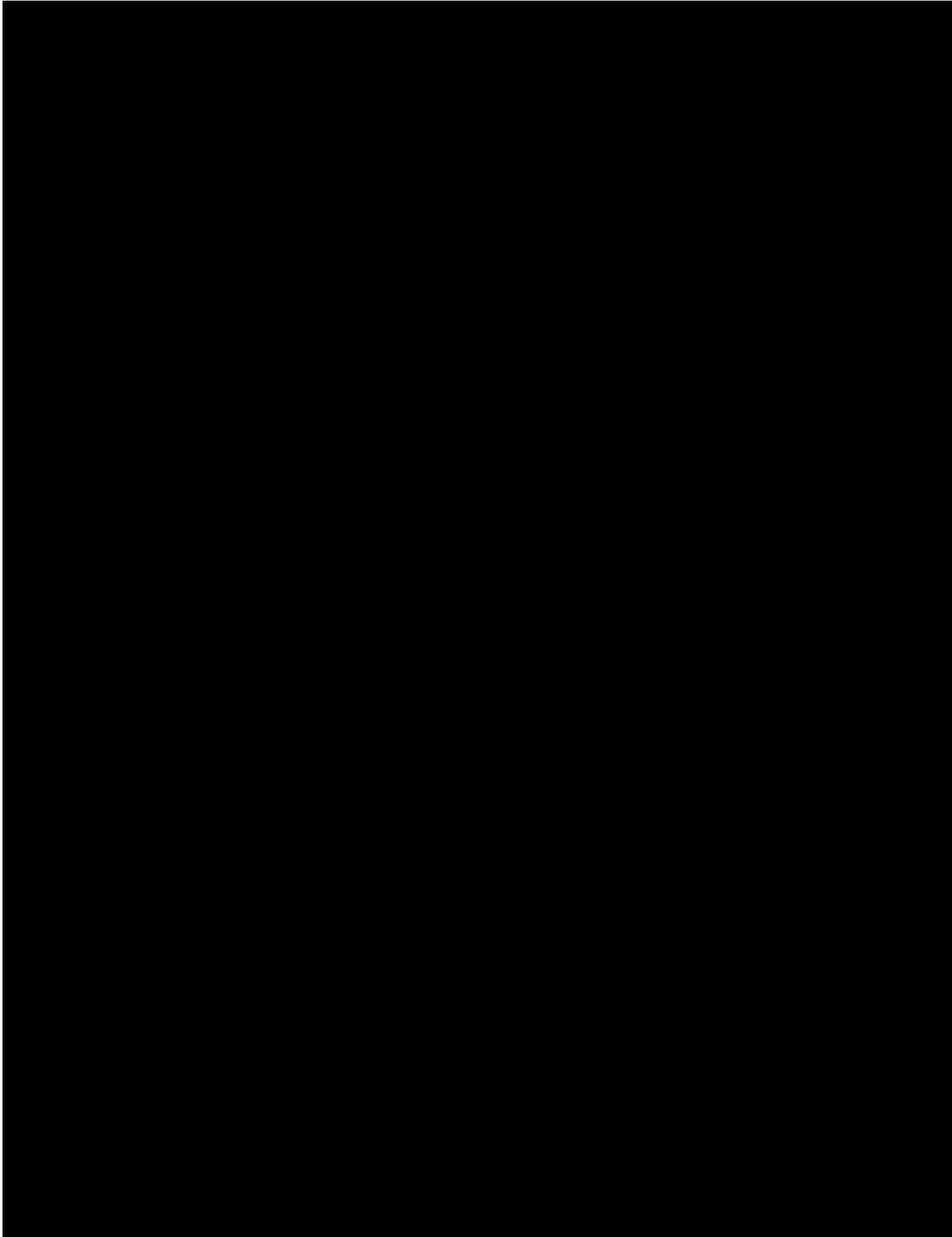
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 104 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 105 of 127

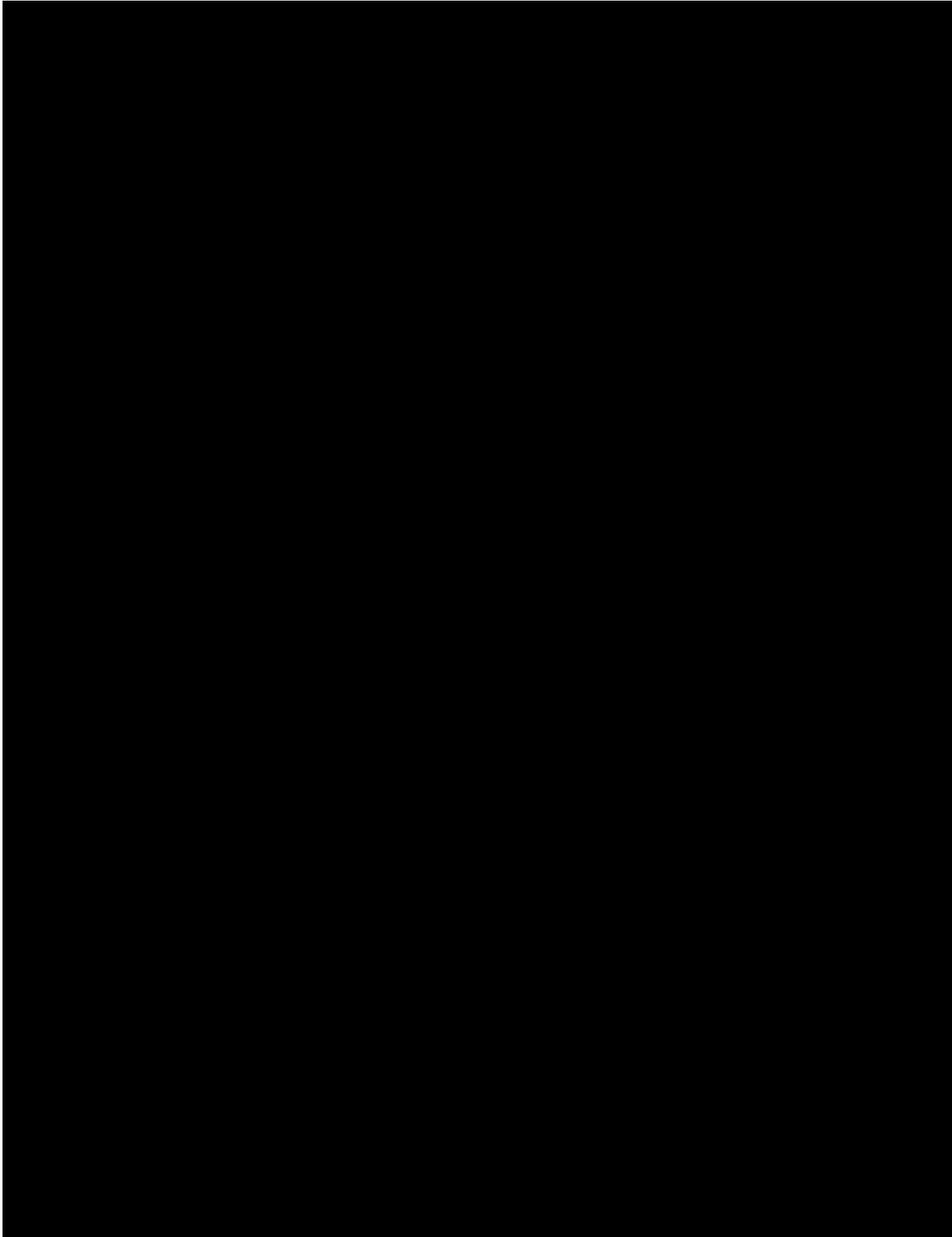
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 105 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 106 of 127

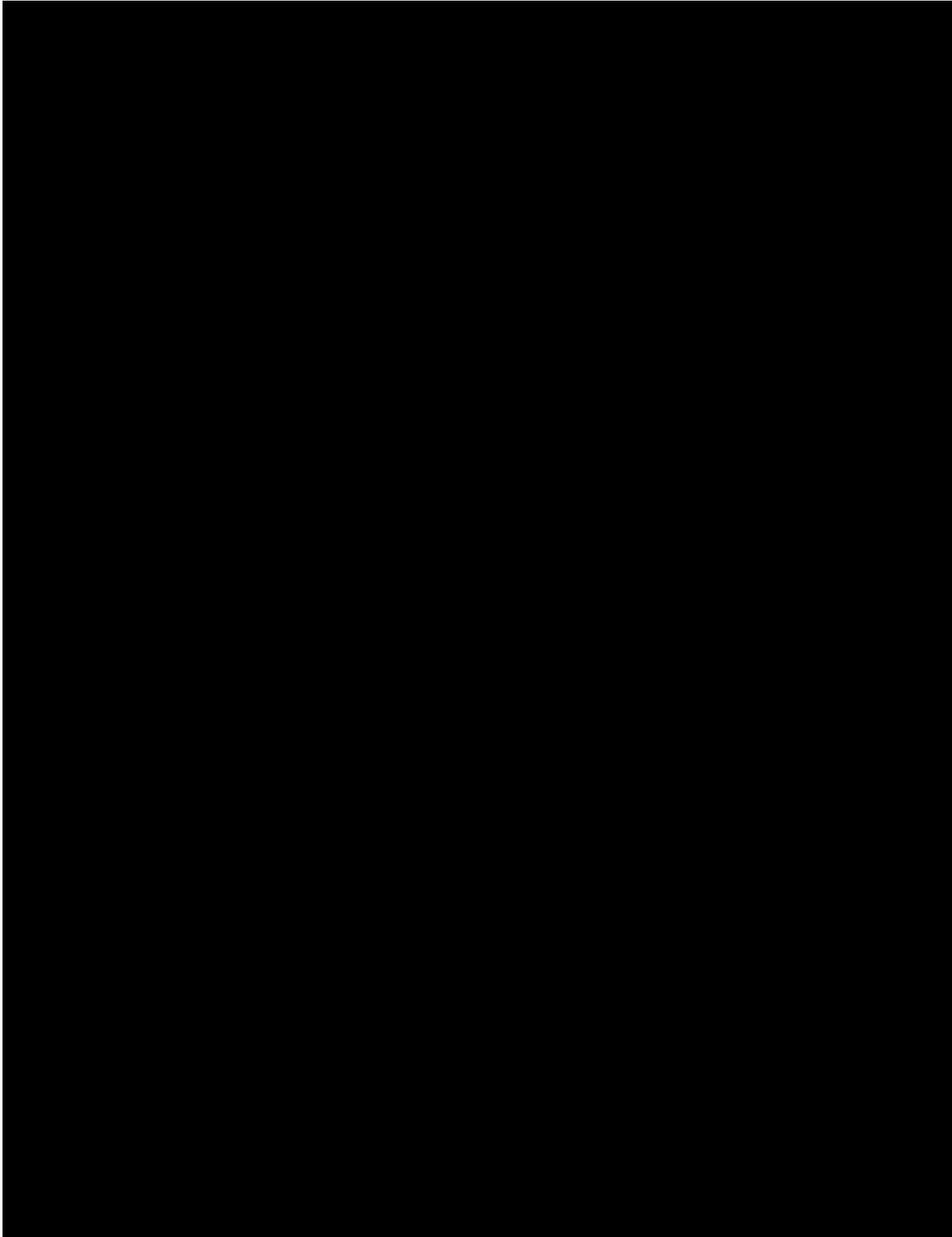
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 106 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 107 of 127

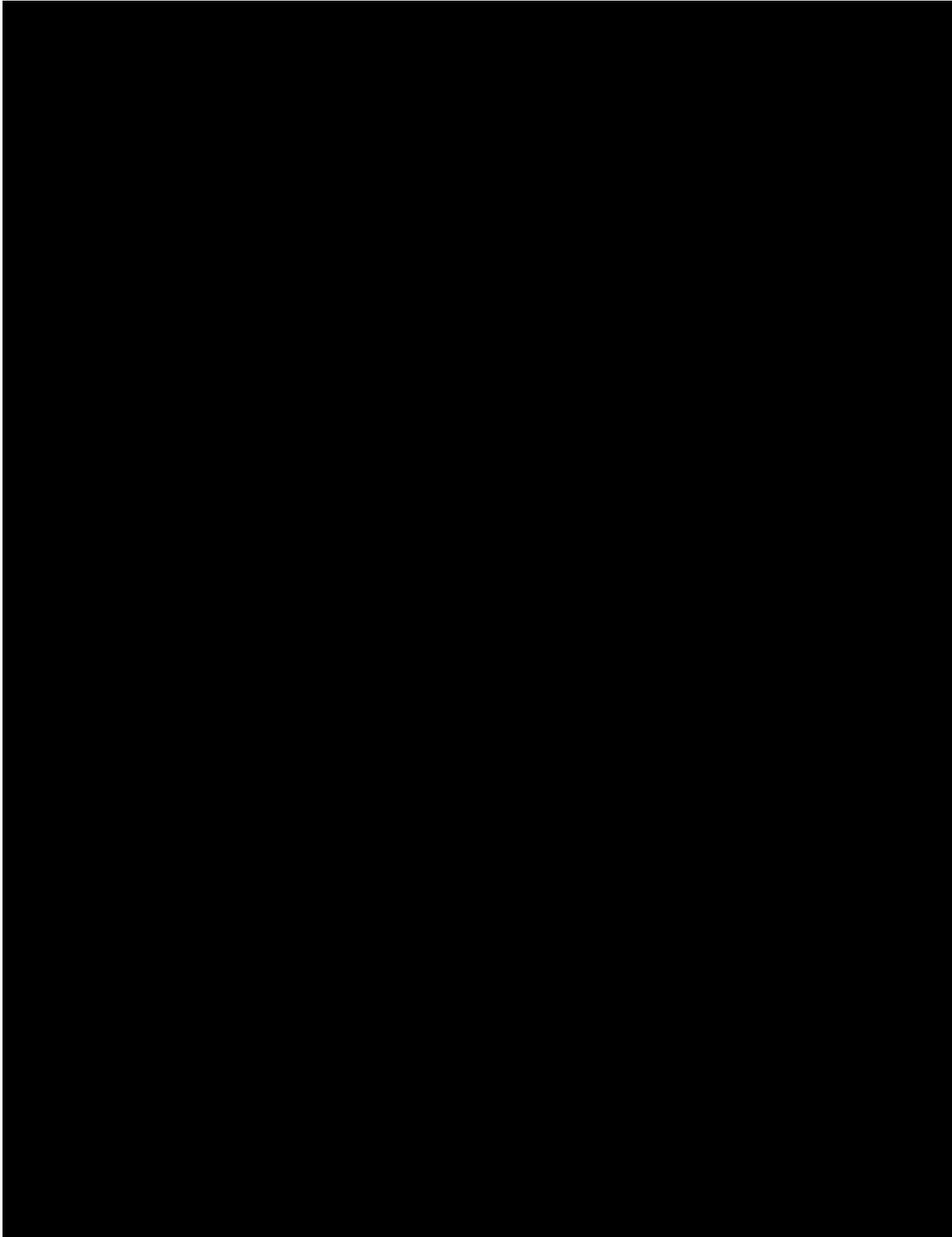
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 107 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 108 of 127

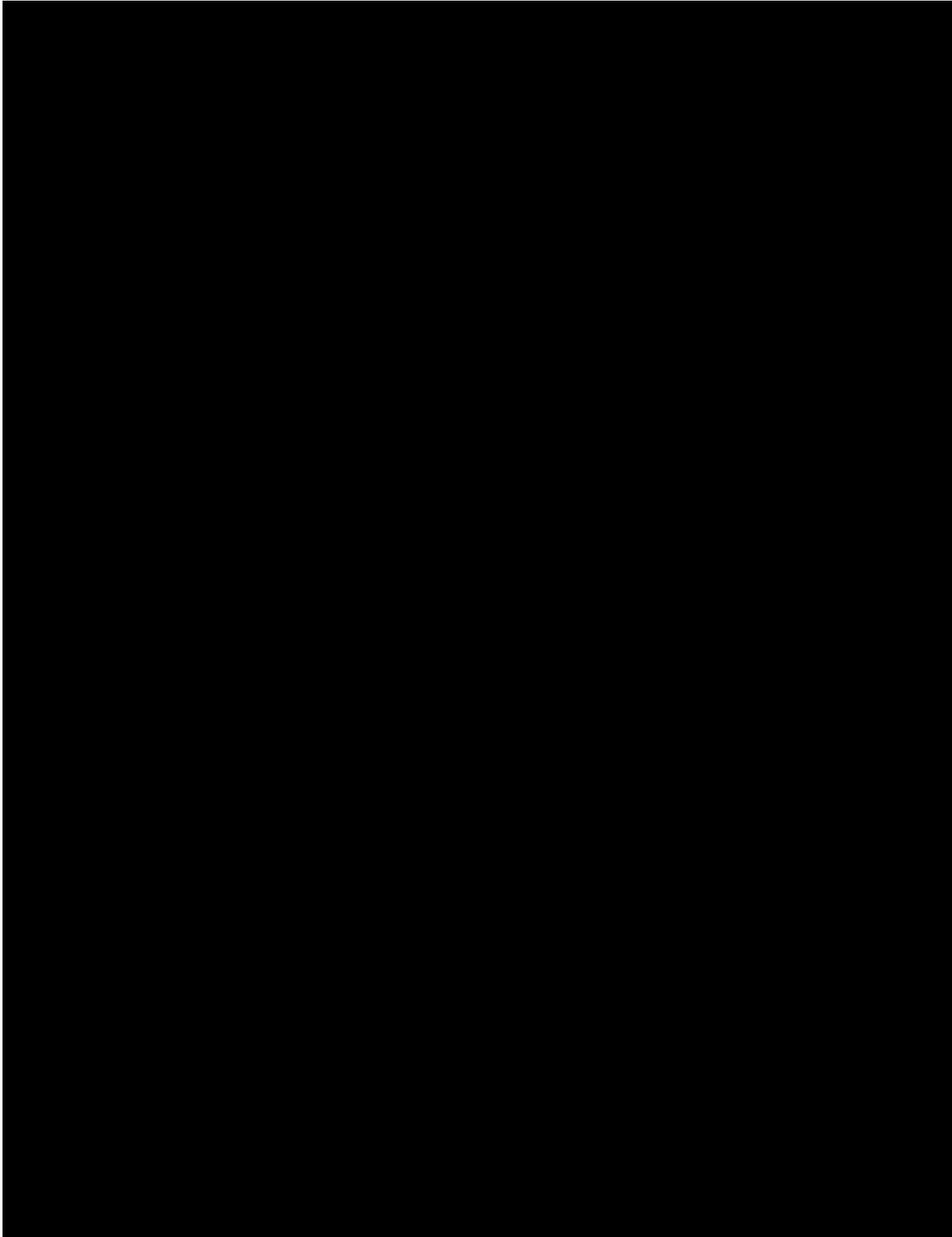
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 108 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 109 of 127

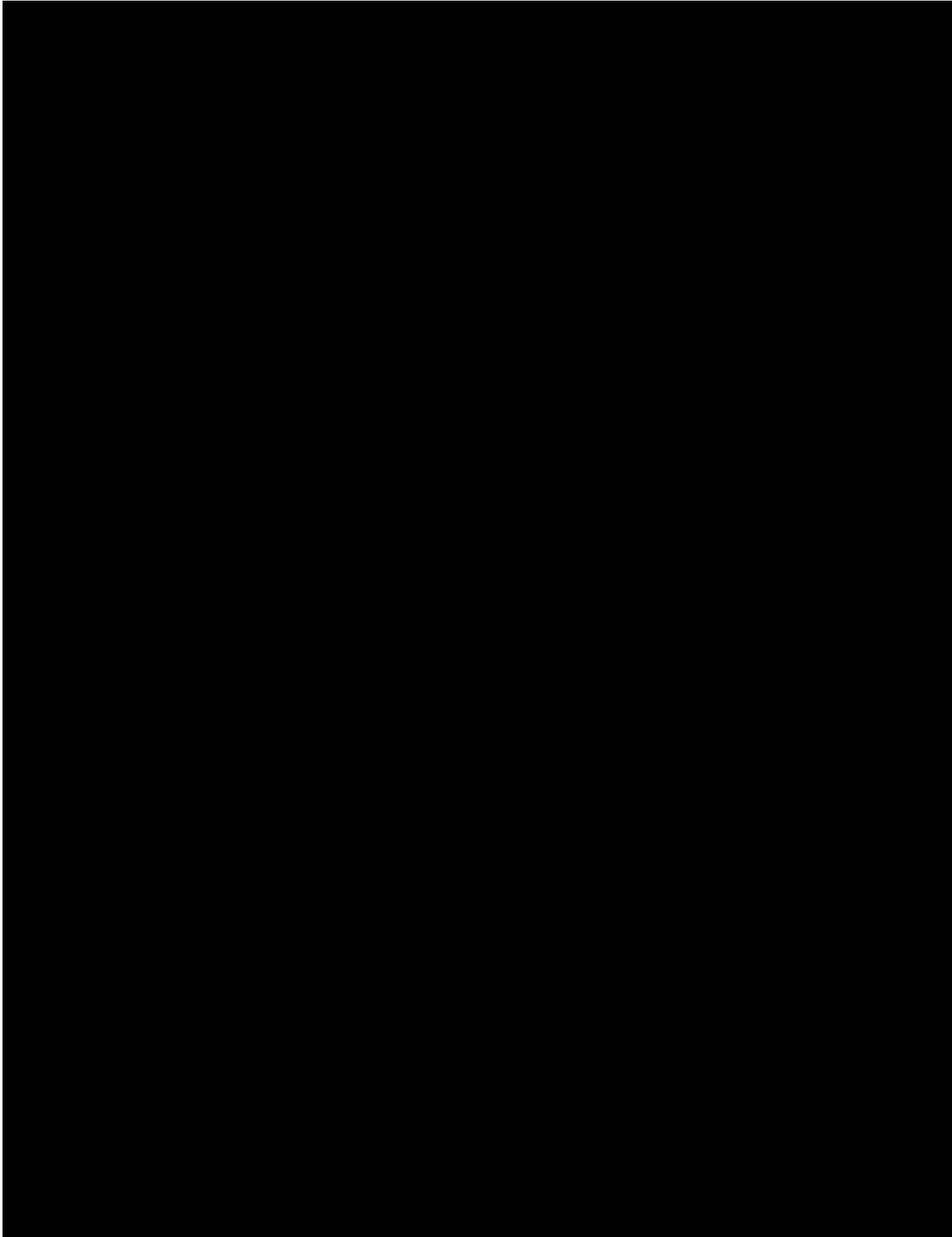
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 109 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 110 of 127

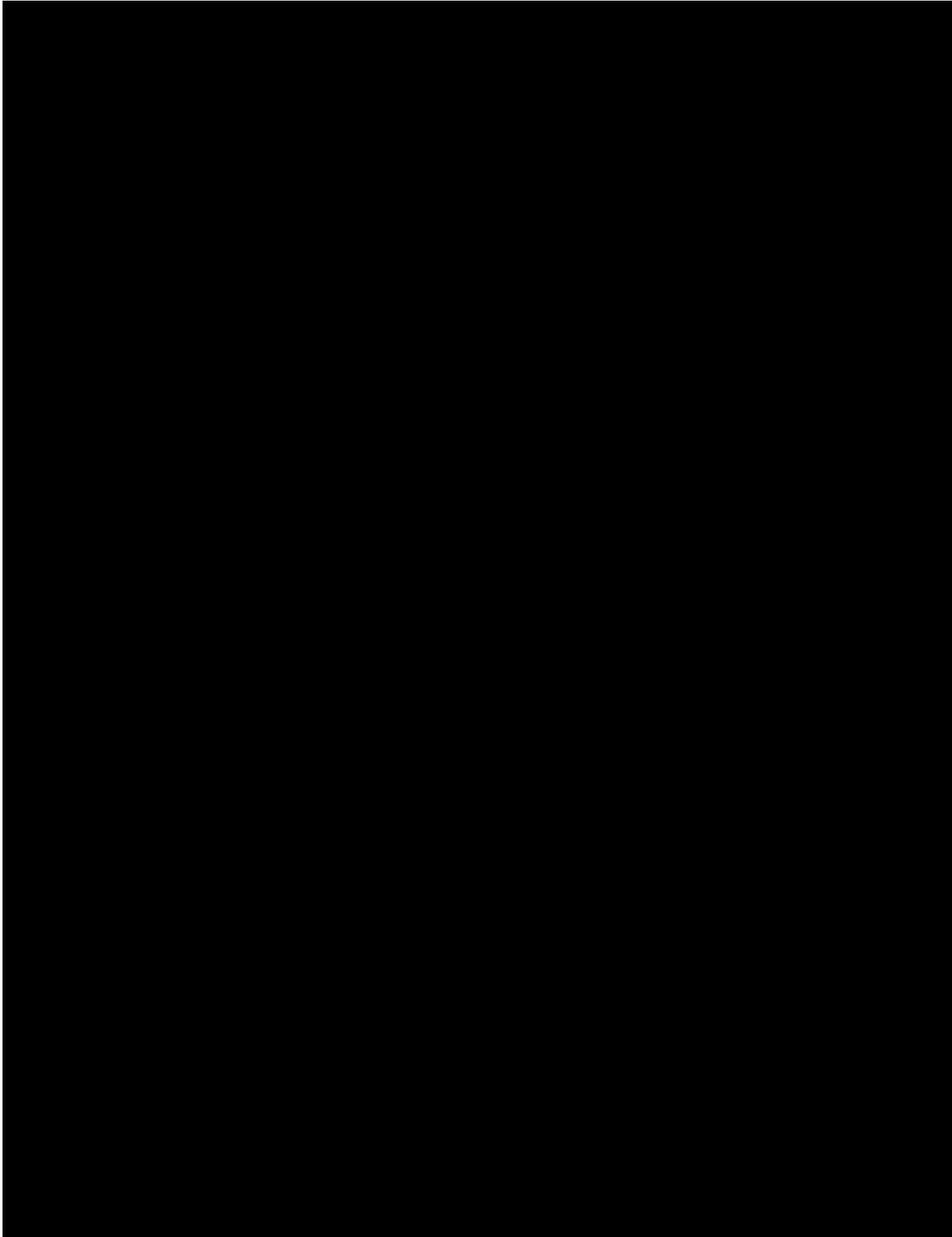
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 110 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 111 of 127

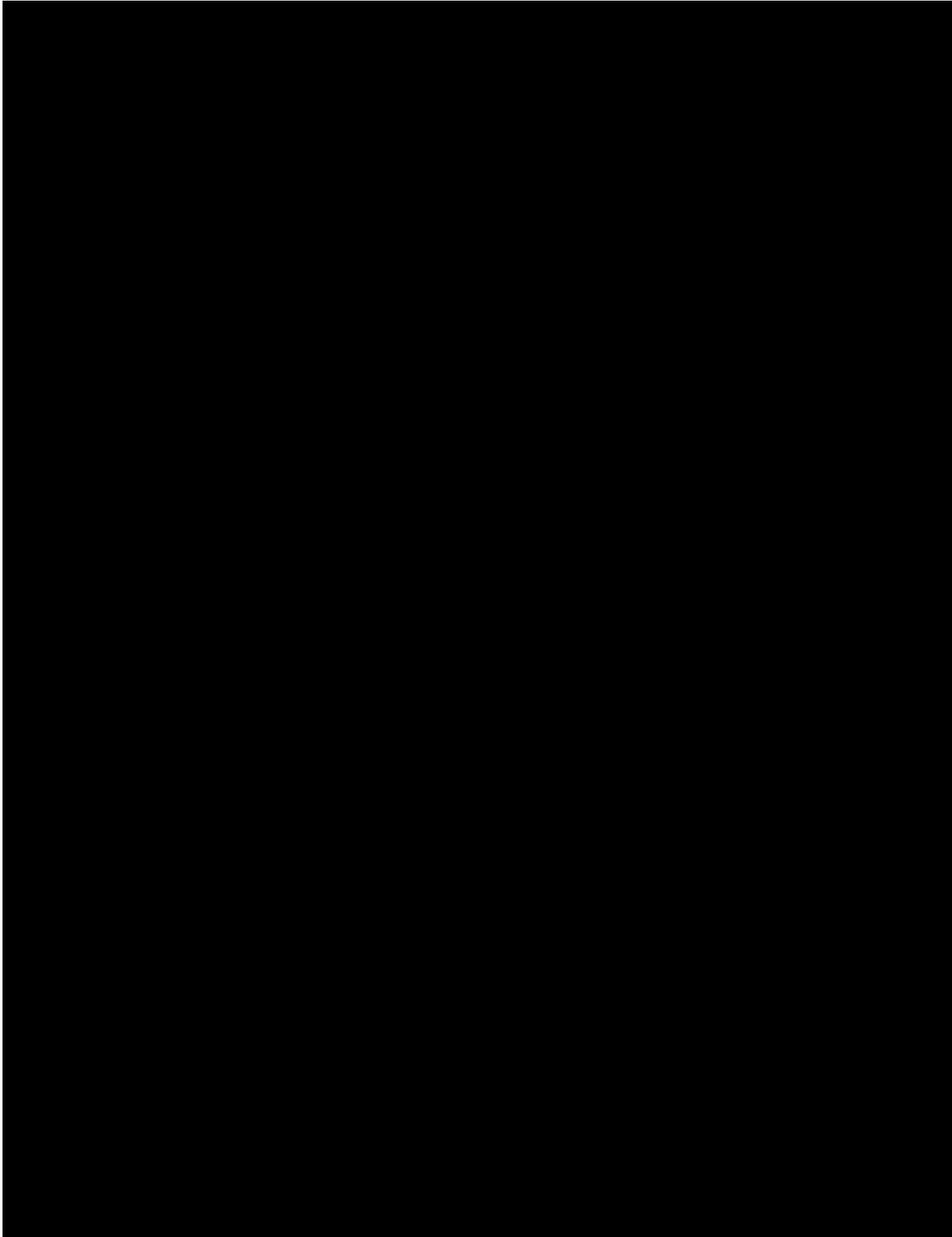
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 111 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 112 of 127

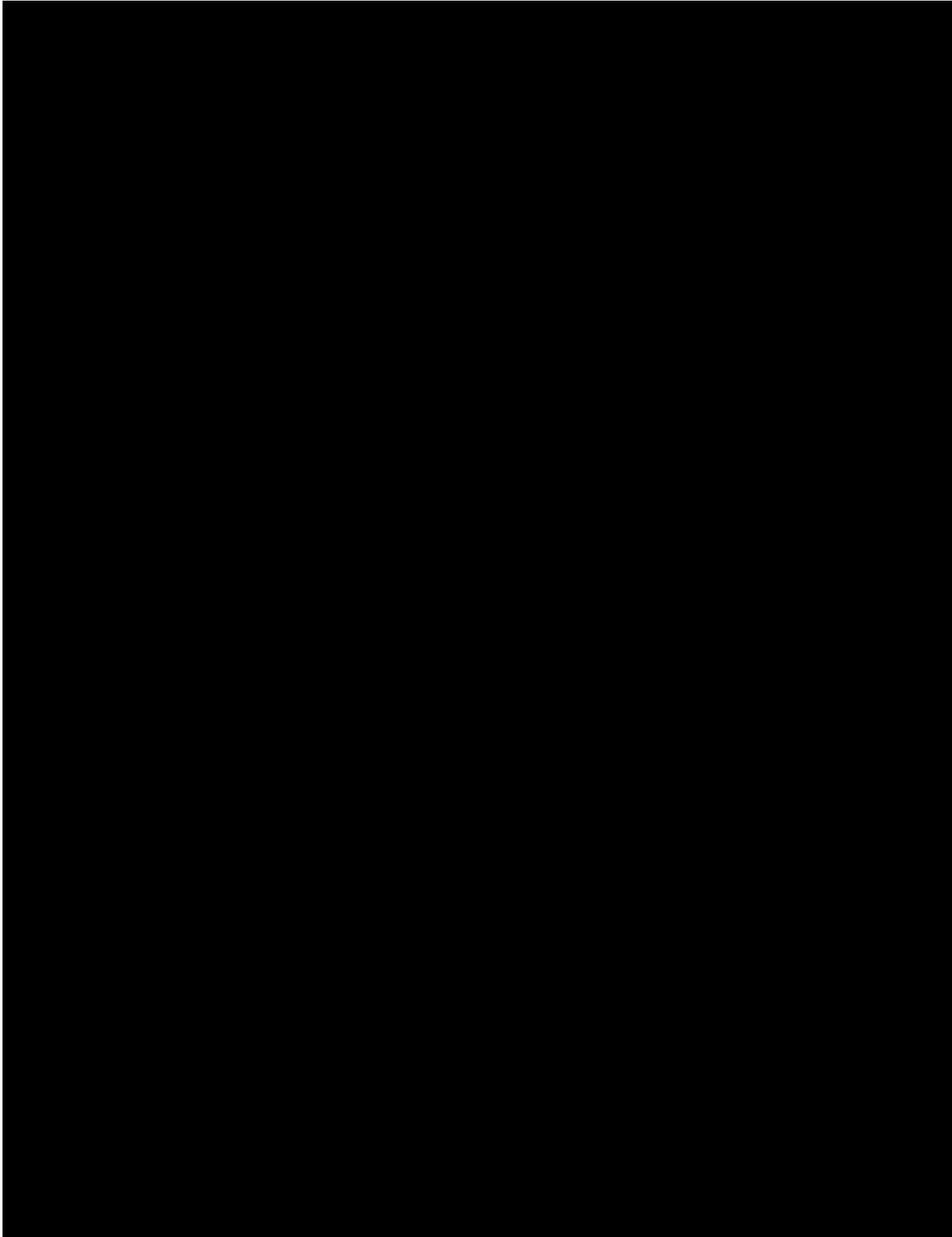
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 112 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 113 of 127

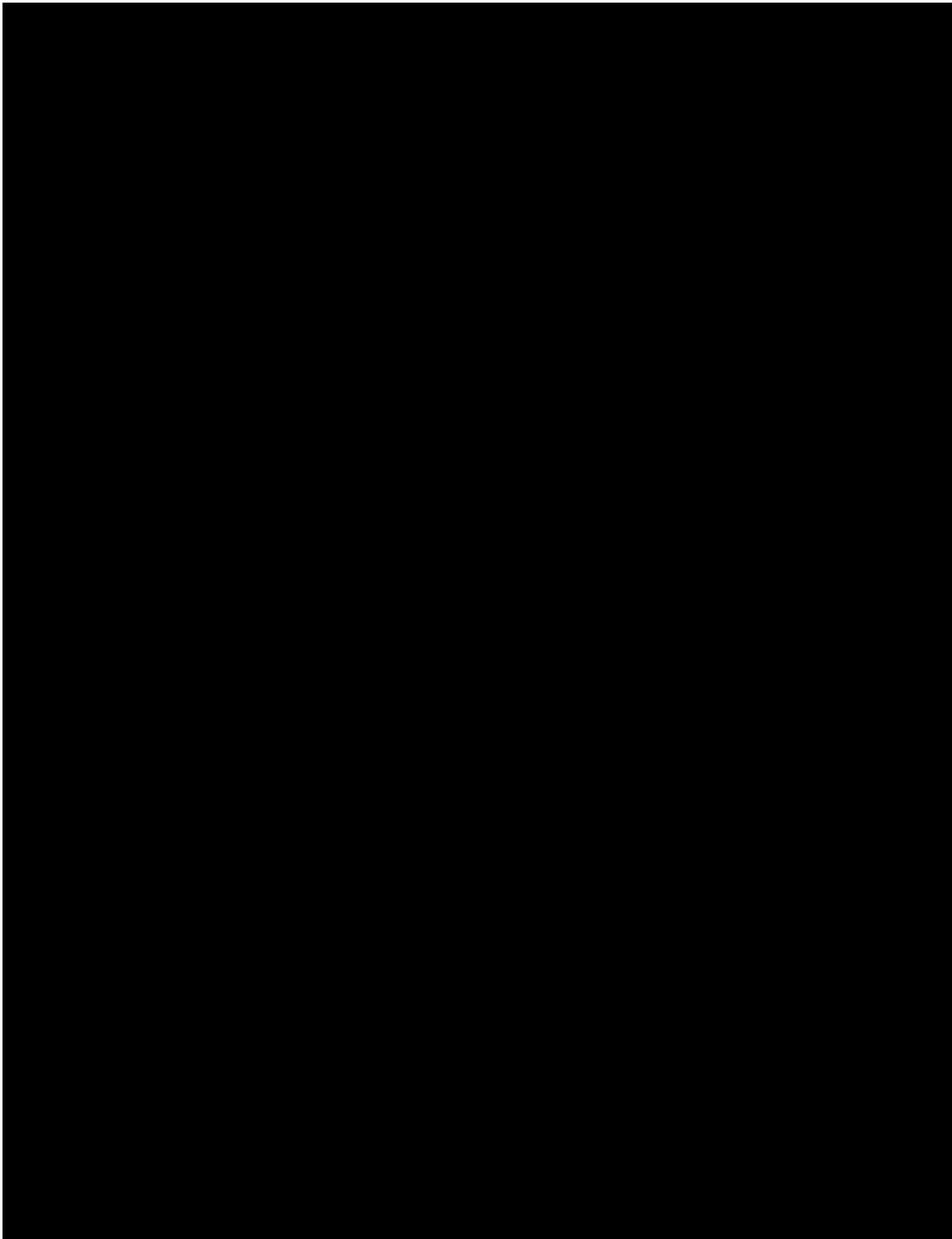
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 113 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 114 of 127

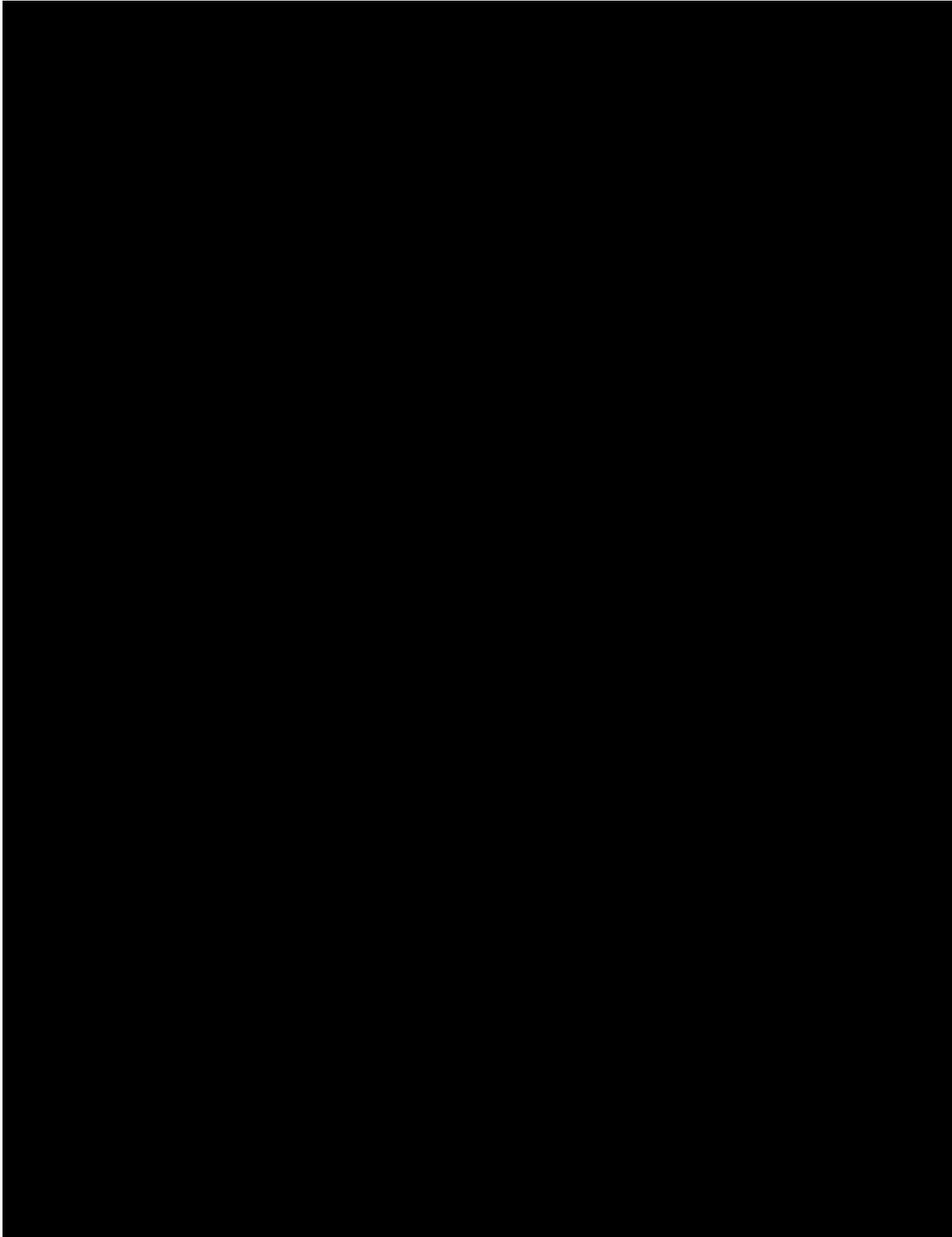
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 114 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 115 of 127

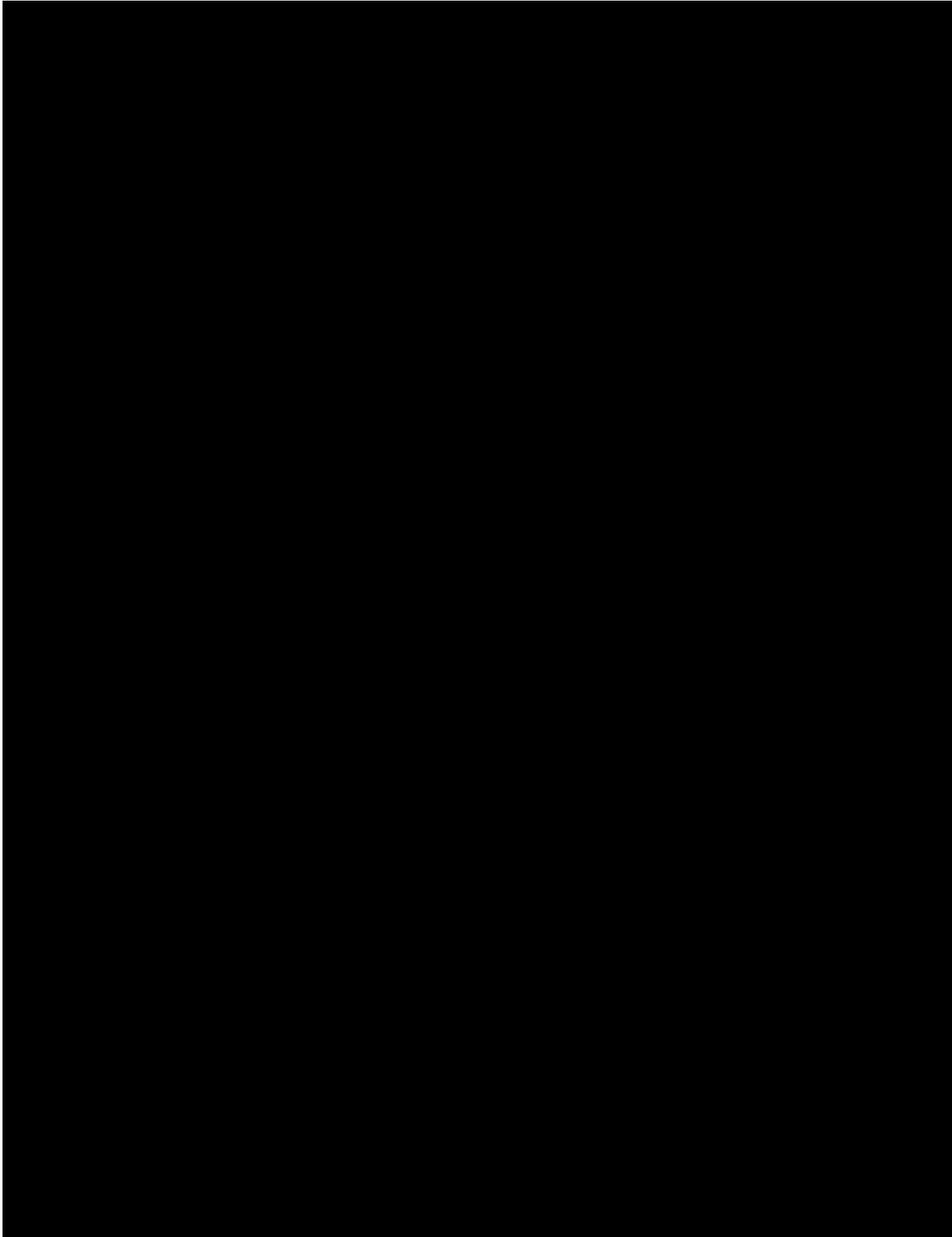
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 115 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 116 of 127

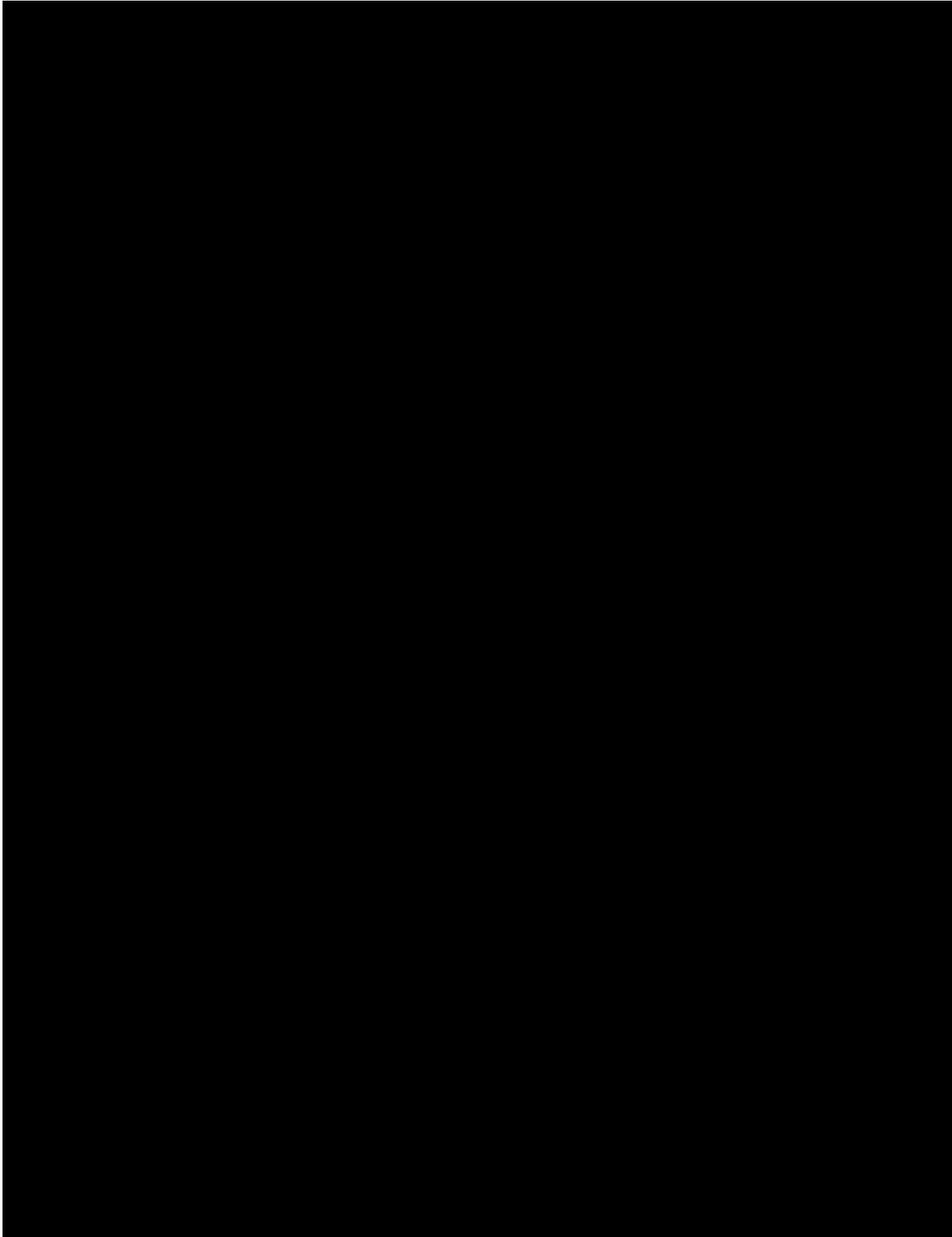
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 116 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 117 of 127

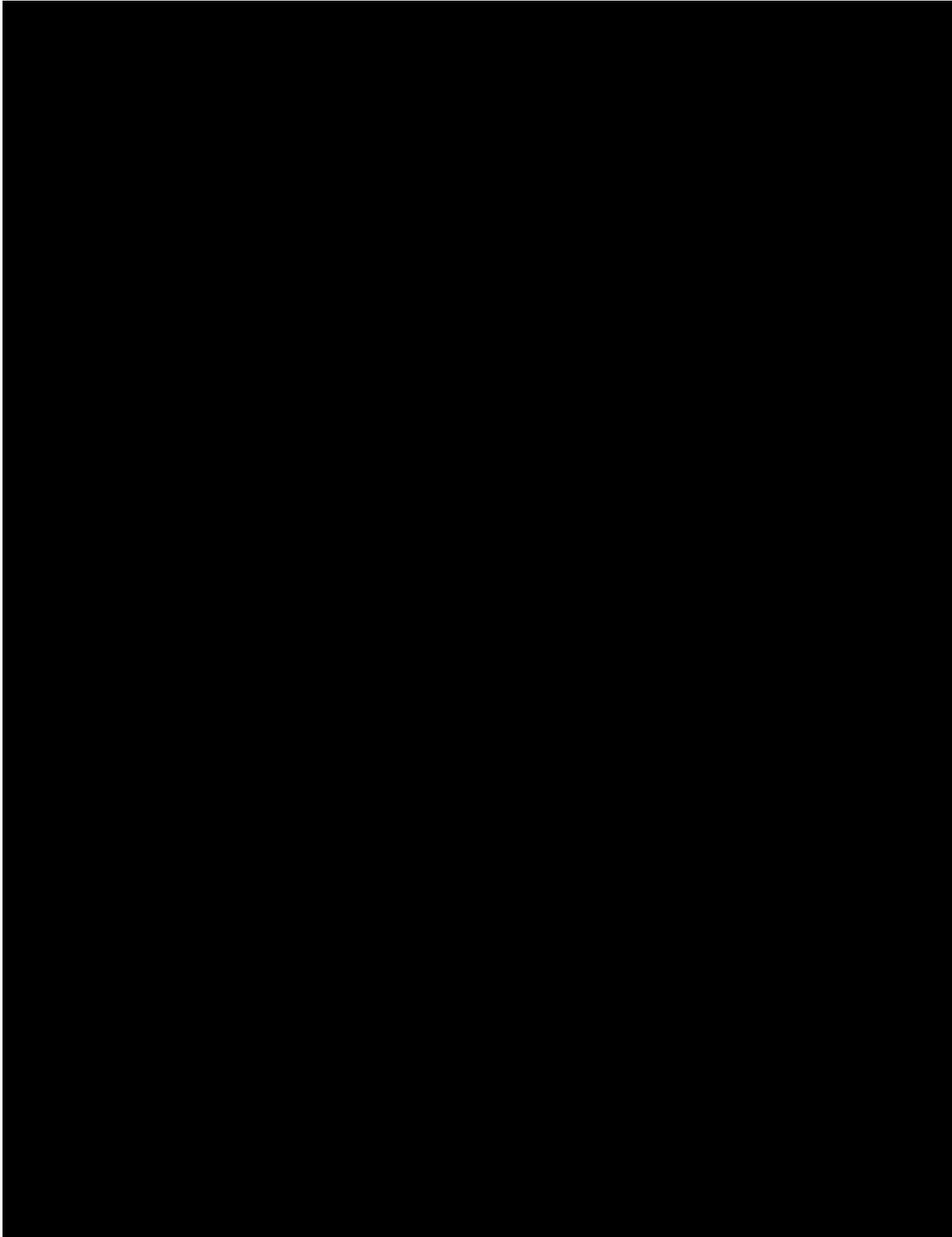
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 117 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 118 of 127

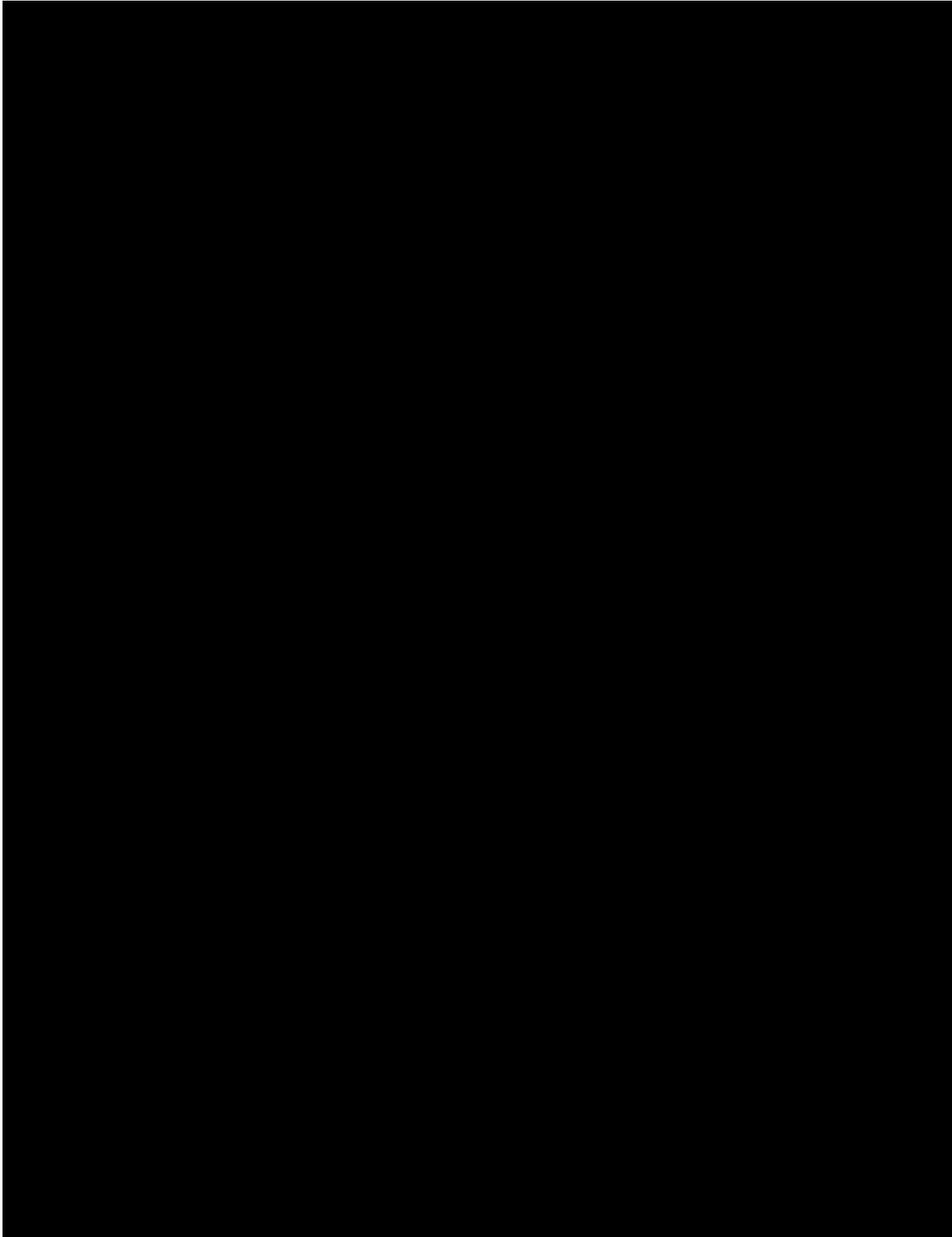
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 118 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 119 of 127

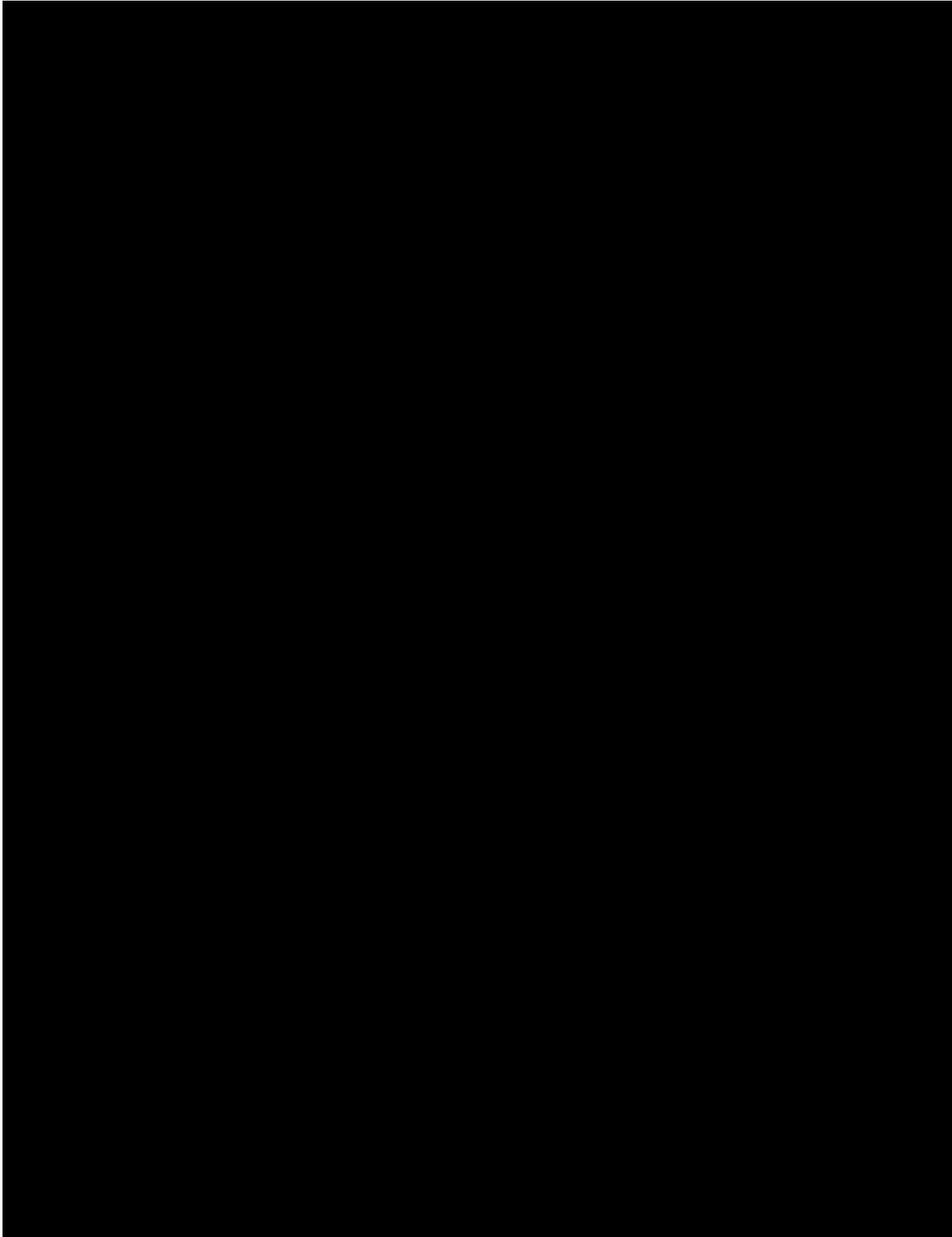
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 119 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 120 of 127

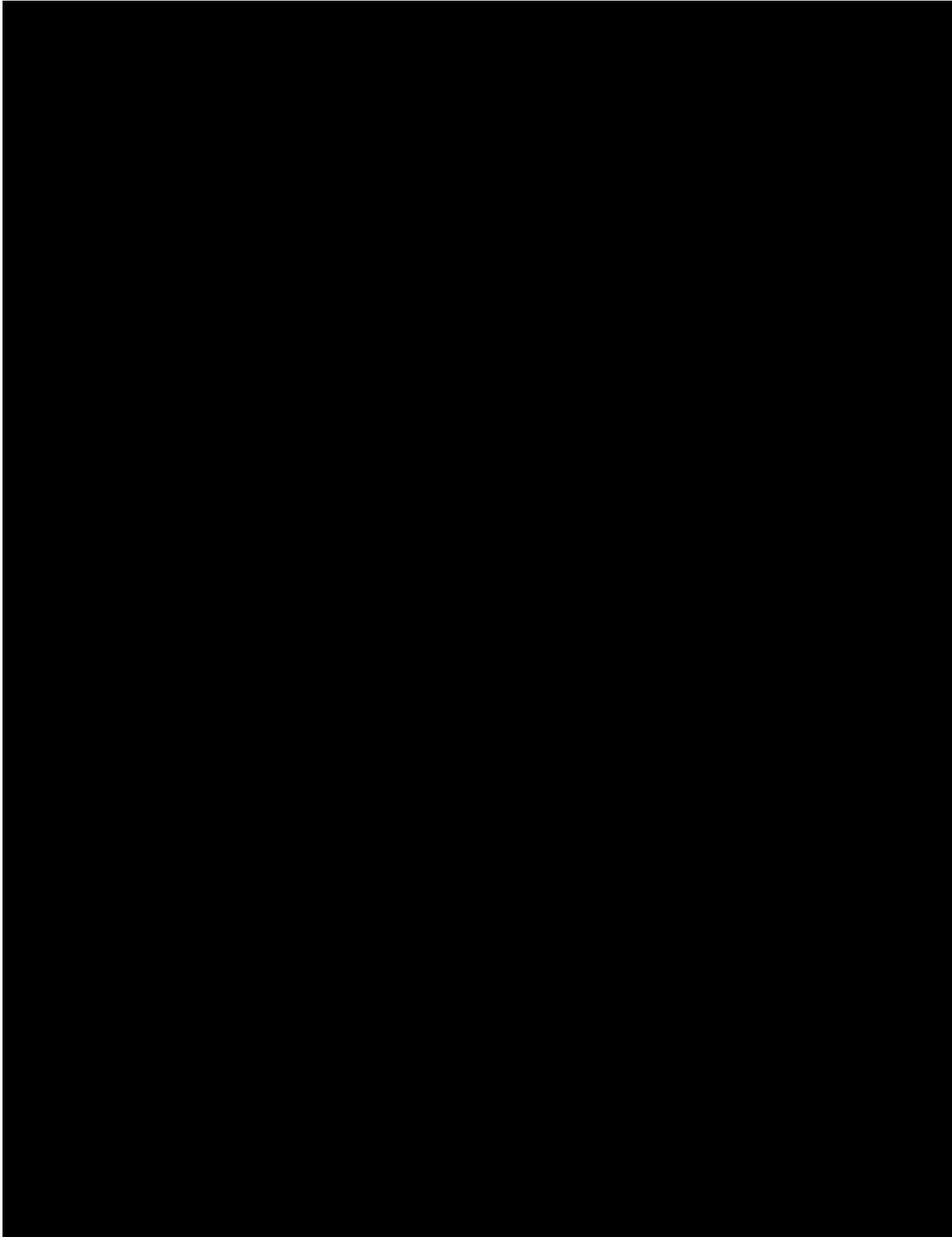
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 120 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 121 of 127

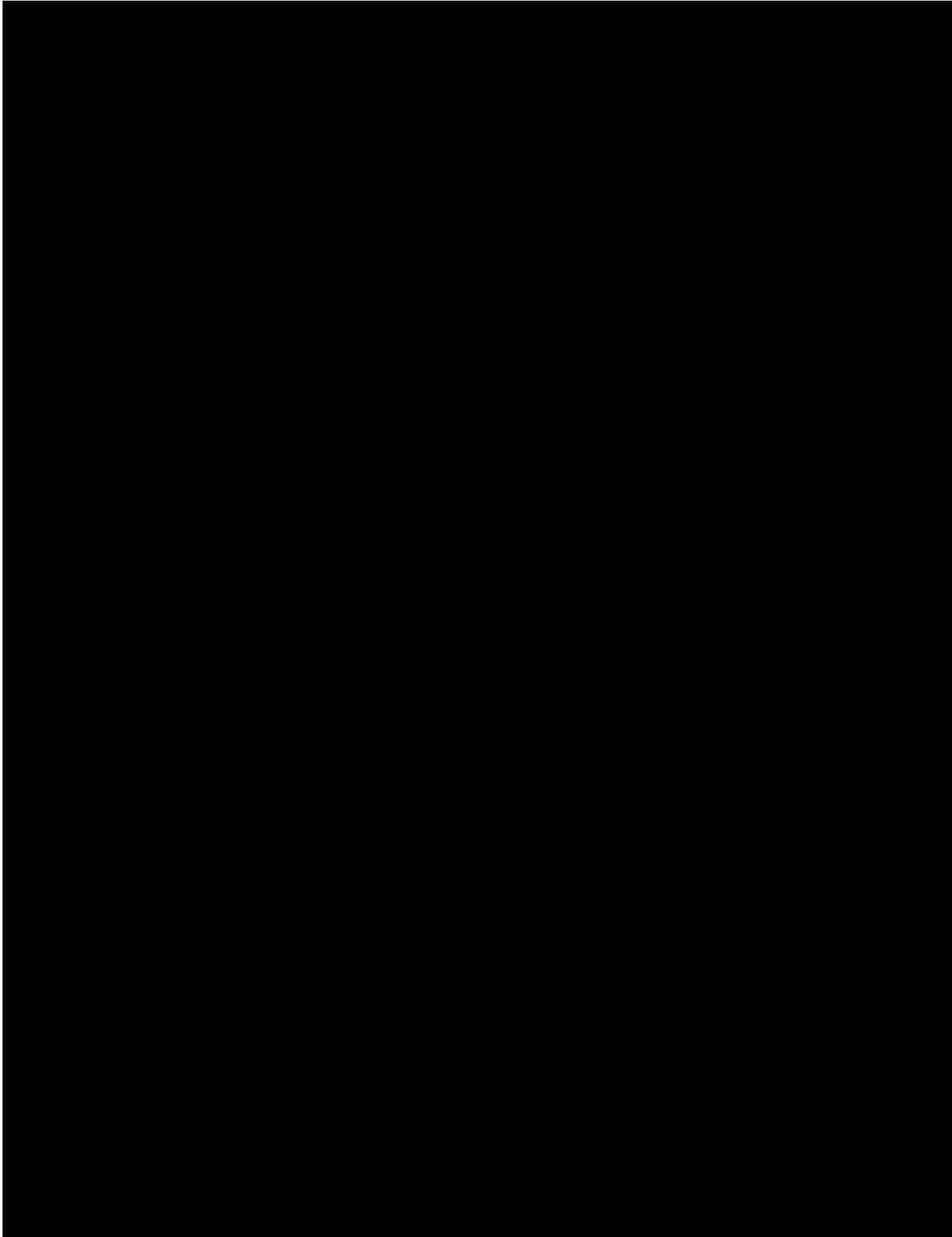
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 121 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 122 of 127

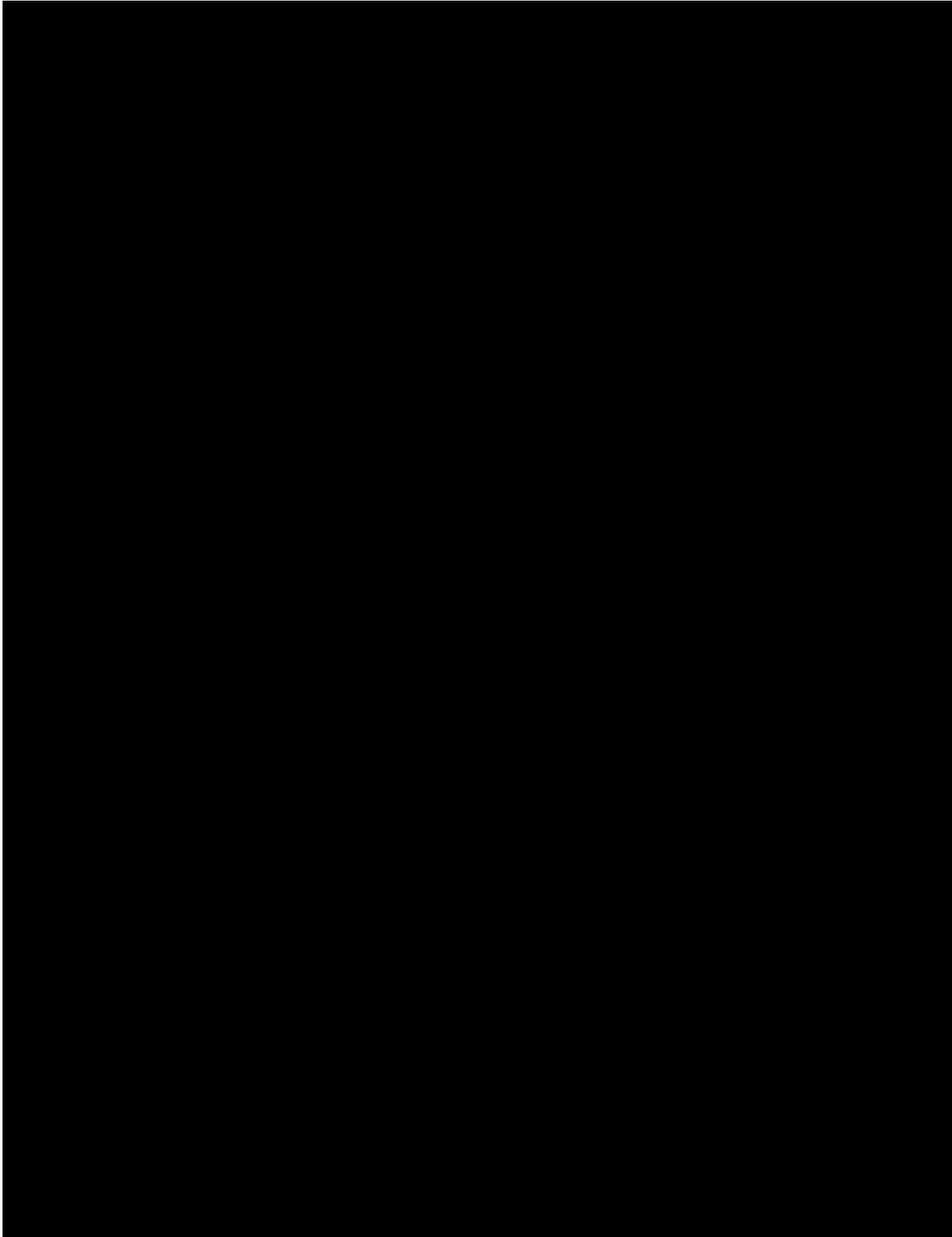
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 122 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 123 of 127

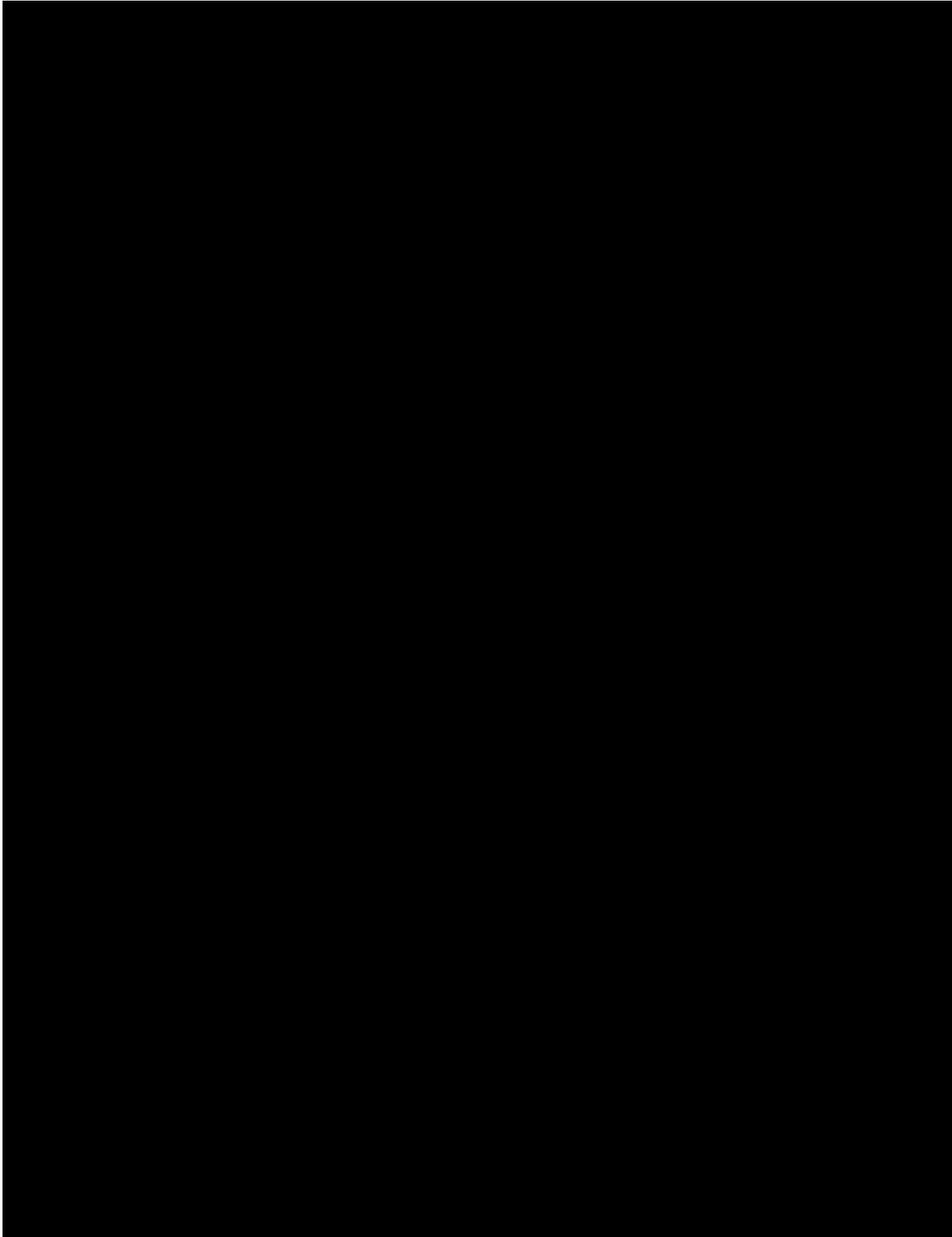
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 123 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 124 of 127

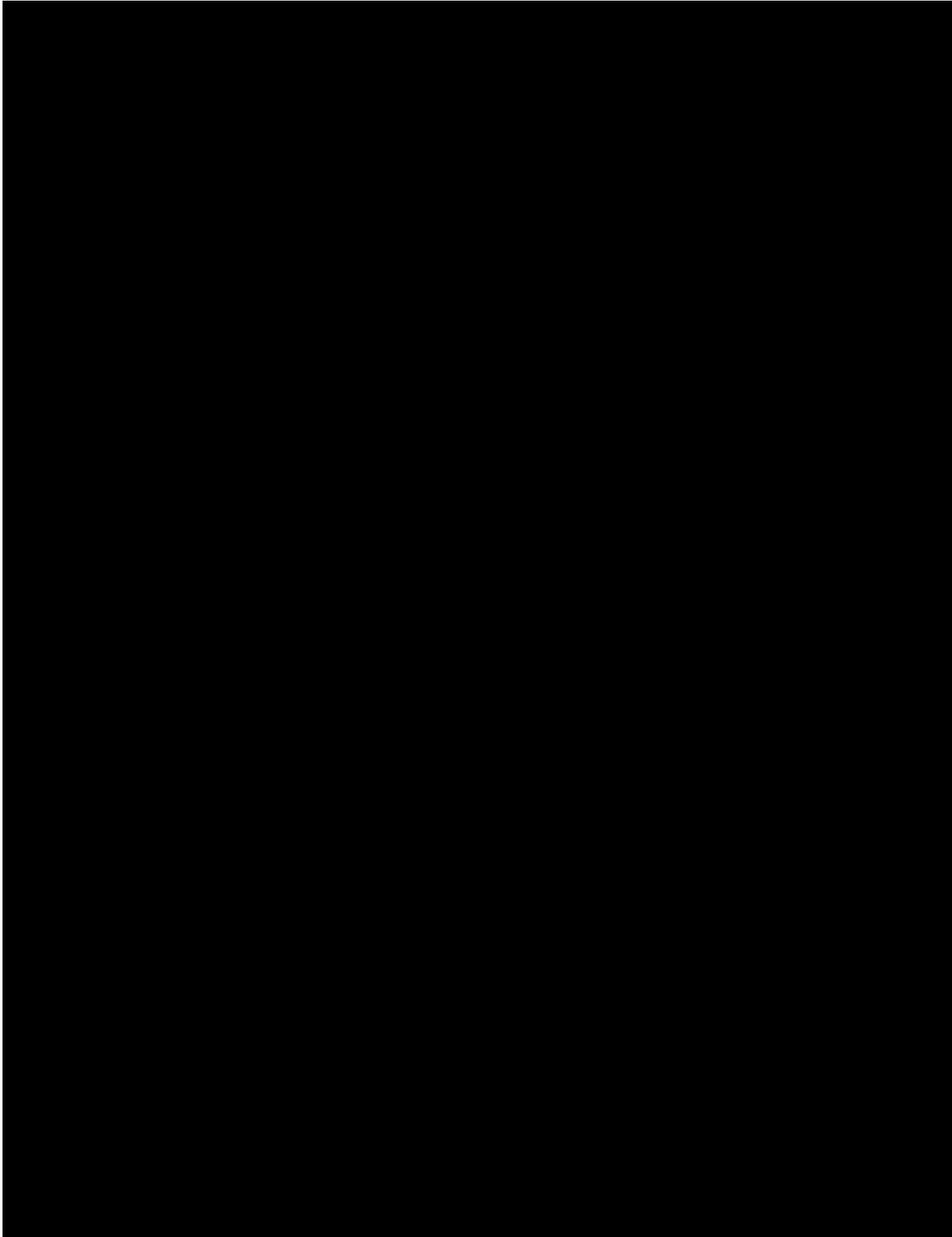
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 124 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 125 of 127

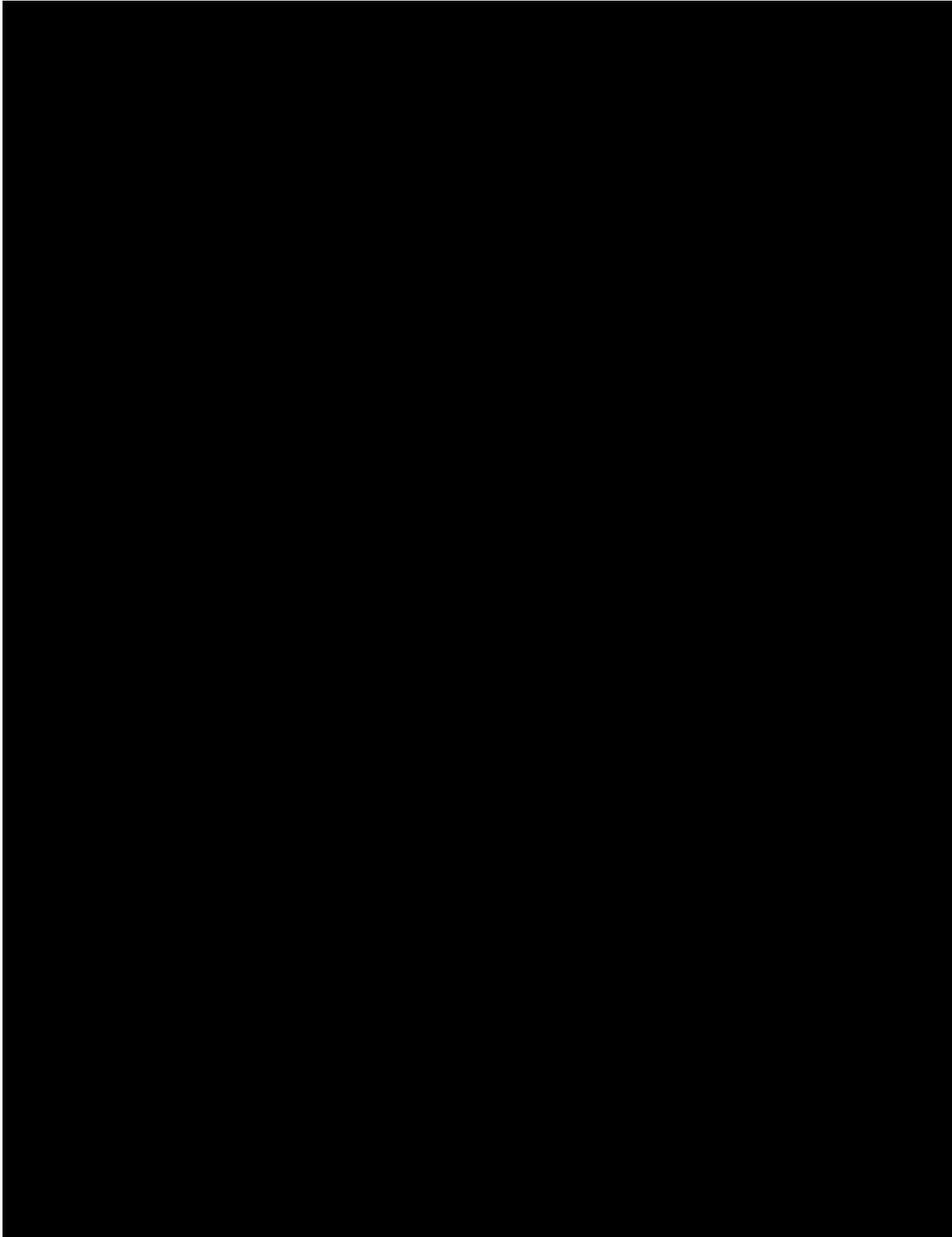
Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 125 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 126 of 127

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 126 of 127



REDACTED

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4770
Attachment DIV 7-49-219
Page 127 of 127

Boston Gas Company and Colonial Gas Company
each d/b/a National Grid
D.P.U. 17-170
Attachment AG-21-39-8
Page 127 of 127

