**APPENDIX A. INDUSTRIAL/COMMERCIAL/INSTITUTIONAL BOILERS IN OZONE TRANSPORT REGION**

**(Data as of 09/01/2016)**

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| **1. COAL-FIRED BOILERS** | **Boiler capacity (mmBtu/hr)** | | |
| **50 - 100** | **100 - 250** | **>250** |
| **State** | **NOx Limit (lbs/mmBtu)** | | |
| **CT – Statewide** | 0.29 - 0.43**a;** 0.28 - 0.43**b**  0.12**c** | 0.15 - 0.43**a;** 0.15 - 0.43**b**  0.12**c** | 0.15 - 0.43**a;** 0.15 - 0.43**b**  0.12**c** |
| **DC** | >20 mmBTU/hr, adjust combustion process | 0.43 | 0.43 |
| **DE - Statewide** | LEA, Low NOx, FGR | 0.38 - 0.43 | 0.38 - 0.43 |
| **MA - Statewide** | 0.43 | 0.33 - 0.45 | 0.33 - 0.45 |
| **MD - Select counties** | No limits | 0.70 | 0.65 |
| **ME -** |  |  |  |
| **NH -** |  |  |  |
| **NY - Statewide** | No limits | 0.08 - 0.20 | 0.08 - 0.20 |
| **PA - Statewide** | 0.45 Refinery gas unit 0.25 | 0.45 Refinery gas unit 0.25 | Coal with SCR temp >600oF (0.12);  CFB (0.16); Tangential (0.35);  Refinery gas unit (0.25); Other (0.40) |
| **VA - OTR jurisdiction** | 0.38 - 1.0 | 0.38 - 1.00 | 0.38 - 1.00 |
| **VT - Statewide** | No limits | No limits | 0.70 |

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| **2. NATURAL GAS-FIRED BOILERS** | **Boiler capacity (mmBtu/hr)** | | |
| **50 - 100** | **100 - 250** | **>250** |
| **State** | **NOx Limit (lbs/mmBtu)** | | |
| **CT – Statewid**e | 0.20 - 0.43**a**; 0.20 - 0.30**b**; 0.05 - 0.10**c** | 0.15 - 0.43**a**; 0.10 - 0.30**b**; 0.10**c** | 0.15 - 0.43**a**; 0.10 - 0.30**b**; 0.10**c** |
| **DC** | >20 mmBTU/hr, adjust combustion process | 0.20 | 0.20 |
| **DE - Statewide** | LEA, Low NOx, FGR | 0.20 | 0.20 |
| **MA - Statewide** | 0.10 | 0.20 | 0.20 |
| **MD - Select counties** | Tune-up | 0.20 | 0.70 |
| **NJ - Statewide** | 0.05 | 0.10 | 0.10 |
| **NH -** |  |  |  |
| **NY – Statewide** | No limits | 0.08 – 0.20 | 0.08 – 0.20 |
| **PA – Statewide** | 0.10 | 0.10 | 0.10 |
| **RI - Statewide** | 0.10 | 0.10 | 0.20 |
| **VA – OTR jurisdiction** | 0.20 | 0.20 | 0.20 |
| **VT – Statewide** | No limits | No limits | 0.20 |

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| **3. OIL-FIRED BOILERS** | **Boiler capacity (mmBtu/hr)** | | | | | |
| **50 – 100** | | **100 – 250** | | **>250** | |
| **NOx Limit (lbs/mmBtu)** | | | | | |
| **State** | **Distillate** | **Residual** | **Distillate** | **Residual** | **Distillate** | **Residual** |
| **CT – Statewide** | 0.20 - 0.43**a** 0.20 - 0.43**b** 0.10**c** | 0.25 - 0.43**a** 0.25 - 0.43**b** 0.20**c** | 0.15 - 0.43**a** 0.10 - 0.43**b** 0.10 - 0.15**c** | 0.15 - 0.43**a** 0.15 - 0.43**b** 0.15 - 0.20**c** | 0.15 - 0.43**a** 0.10 - 0.43**b** 0.10 - 0.15**c** | 0.15 - 0.43**a** 0.15 - 0.43**b** 0.15 - 0.20**c** |
| **DC** | 0.30 | Banned | 0.25 | Banned | 0.25 | Banned |
| **DE - Statewide** | LEA, LNB, FGR | | 0.38 - 0.43 | | 0.38 - 0.43 | |
| **MA - Statewide** | Tune-up | | 0.30 | 0.40 | 0.25 - 0.28 | |
| **MD - Select Counties** | No limits | | 0.25 |  | 0.70 |  |
| **ME -** |  |  |  |  |  |  |
| **NH -** |  |  |  |  |  |  |
| **NJ – Statewide** | 0.08 | 0.20 | 0.10 | 0.20 | 0.10 | 0.20 |
| **NY – Statewide** | 0.08 - 0.20 | | 0.15 | | 0.15 - 0.20 | |
| **PA – Statewide** | 0.12 | 0.20 | 0.12 | 0.20 | 0.12 | 0.20 |
| **RI - Statewide** | 0.12 | LNB & FGR | 0.12 | LNB & FGR | 0.25 | LNB & FGR |
| **VA - OTR jurisdiction** | 0.25 - 0.43 | | 0.25 - 0.43 | | 0.25 - 0.43 | |
| **VT - Statewide** | No limits | | No limits | | 0.30 | |

Notes:

* No Coal-Fired Boilers in NJ and RI;
* In Tables 1-3: CT: **a**Existing RCSA Sec. 22a-174-22; **b**Proposed RCSA Sec. 22a-174-22e starting June 1, 2018; **c**Proposed RCSA Sec. 22a-174-22e starting June 1, 2022; LEA = Low Excess Air; FGR = Flue Gas Recirculation; LNB = Low Nox Burner;

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| **State** | **4. ICI BOILERS - RACT REGULATIONS** | **State Contacts** |
| **CT** | Revising RCSA section 22a-174-22  <http://www.ct.gov/deep/lib/deep/air/regulations/mainregs/sec22.pdf>  <http://www.ct.gov/deep/lib/deep/air/regulations/20160114_draft_sec22e_dec2015(revised).pdf> | Merrily Gere, 860 424 3416,  [Merrily.Gere@ct.gov](mailto:Merrily.Gere@ct.gov); |
| **DC** | 20 DCMR § 805.5, RACT for Major Stationary Sources of Oxides of Nitrogen: <http://www.dcregs.dc.gov/Gateway/RuleHome.aspx?RuleNumber=20-805>;  20 DCMR § 801, includes a ban on No. 5 fuel oil and heavier as of July 1, 2016:  <http://www.dcregs.dc.gov/Gateway/RuleHome.aspx?RuleNumber=20-801> | Jessica Daniels, 202-741-0862,  jessica.daniels@dc.gov |
| **DE** | 7 DE Admin Code 1112, Control of Nitrogen Oxides Emissions: <http://regulations.delaware.gov/AdminCode/title7/1000/1100/1112.shtml>  7 DE Admin Code 1142, Specific Emission Control Requirements: <http://www.dnrec.delaware.gov/dwhs/Info/Regs/Documents/Reg1142_S1_Recoded_v1.pdf> |  |
| **MA** |  |  |
| **ME** |  |  |
| **MD** | COMAR 26.11.09.08 B, E, F & J - Evaluating potential need for changes;  <http://www.dsd.state.md.us/COMAR/SearchTitle.aspx?scope=26> | Randy Mosier, 410 537 4488,  Randy.Mosier@maryland.gov; |
| **NH** |  |  |
| **NJ** | Subchapter 19, latest OTC model rule |  |
| **NY** | Subpart 227-2, Effective: 7/8/2010, Submitted: 8/19/2010, Final: 77 FR 13974, 78 Fr 41846; <https://www.federalregister.gov/articles/2013/07/12/2013-16493/approval-and-promulgation-of-implementation-plans-new-york-state-ozone-implementation-plan-revision> | John Barnes, 518 402 8396, john.barnes@dec.ny.gov; Robert Bielawa, robert.bielawa@dec.ny.gov; |
| **PA** | Additional RACT Requirements for Major Sources of NOx and VOCs. Sections 129.96 - 129.100. Control of NOX from Major Sources of NOx and VOC. Effective April 23, 2016. Federal Register –TBD; Final RACT 2 Rule (46 Pa.B. 2036, April 23, 2016).  <http://www.pabulletin.com/secure/data/vol46/46-17/694.html> | Susan Hoyle, shoyle@pa.gov;  Randy Bordner, ranbordner@pa.gov;  Susan Foster, sufoster@pa.gov;  Sean Wenrich, sewenrich@pa.gov; |
| **RI** | Air Pollution Control Regulation Number 27, Control of Nitrogen Oxide Emissions | Laurie Grandchamp, 401 222 2808  laurie.grandchamp@dem.ri.gov |
| **VA** | 9 VAC 5 Chapter 40 Article 51; http://www.deq.virginia.gov/Portals/0/DEQ/Air/Regulations/451.pdf | Doris McLeod 804-698-4197  doris.mcleod@deq.virginia.gov |
| **VT** | No action to date; <http://dec.vermont.gov/air-quality/laws> | Doug Elliott, 802 377 5939, Doug.Elliott@vermont.gov; |