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1.1 **Department of Health**

- 1.2 **Proposed Permanent Rules Relating to Indoor Ice Arenas and Motorsports Arenas**
- 1.3 4620.3900 APPLICATION PURPOSE.
- 1.4 Parts 4620.3900 to 4620.4800 apply to owners/operators of ice arenas in
- 1.5 which internal combustion engine-powered ice resurfacing machines are used; and
- 1.6 owners/operators of enclosed sports arenas in which other internal combustion
- 1.7 engine-powered vehicles or equipment are used for racing, competition, or for
- 1.8 demonstration including, but not limited to, midget cars, motorcycles, and snowmobiles.
- 1.9 The purpose of parts 4620.3900 to 4620.4800 is to protect public health by ensuring
- 1.10 acceptable air quality in the operation and maintenance of indoor ice arenas.

1.11 **4620.3910 APPLICATION.**

1.12 Parts 4620.3900 to 4620.4800 apply to owners or operators of indoor ice arenas.

1.13 4620.3950 ACCEPTABLE AIR QUALITY.

1.14The owner or operator of an indoor ice arena must maintain acceptable air quality1.15conditions at all times in areas of the arena building that are open to the public. Such1.16conditions are defined as: one-hour average air concentration of not more than 20 parts of1.17carbon monoxide per one million parts of air by volume (20 ppm), and one-hour average1.18air concentrations of not more than 0.3 parts of nitrogen dioxide per one million parts of1.19air by volume (0.3 ppm).

1.20 **4620.4000 DEFINITIONS.**

- 1.21 Subpart 1. Scope. For the purposes of parts 4620.3900 to 4620.4800, the following
 1.22 terms shall have the meanings given them unless the context clearly indicates otherwise.
- 1.23 Subp. 1a. Air quality measuring device. "Air quality measuring device" means
- 1.24 direct-read pump and colorimetric tube or electronic real-time gas detection equipment for
- 1.25 sampling and measuring nitrogen dioxide and carbon monoxide air concentrations.

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| 2.1 | Subp. 2. [See repealer.] |
| 2.2 | Subp. 3. [Repealed by amendment, L 1977 c 305 s 39] |
| 2.3 | Subp. 3a. Arena. "Arena" means an indoor ice arena. |
| 2.4 | Subp. 3b. Arena building. "Arena building" means a structure with a roof and walls |
| 2.5 | that houses an indoor ice arena. |
| 2.6 | Subp. 4. Certificate. "Certificate" means a certificate of approval issued by the |
| 2.7 | commissioner of health pursuant to under parts 4620.3900 to 4620.4800. |
| 2.8 | Subp. 5. [See repealer.] |
| 2.9 | Subp. 5a. Commissioner. "Commissioner" means the commissioner of health or the |
| 2.10 | commissioner's designee. |
| 2.11 | Subp. 5b. Edging. "Edging" means operation of an ice edger. |
| 2.12 | Subp. 6. [See repealer.] |
| 2.13 | Subp. 7. [See repealer.] |
| 2.14 | Subp. 7a. Ice edger. "Ice edger" means power equipment used to modify the |
| 2.15 | perimeter of an ice sheet. |
| 2.16 | Subp. 7b. Ice maintenance machine. "Ice maintenance machine" means an ice |
| 2.17 | resurfacer or ice edger. |
| 2.18 | Subp. 7c. Ice resurfacer. "Ice resurfacer" means power equipment used to modify |
| 2.19 | the entire surface of the ice. |
| 2.20 | Subp. 7d. Indoor ice arena. "Indoor ice arena" means a single room of a |
| 2.21 | permanent or temporary structure where an ice sheet is maintained having the following |
| 2.22 | characteristics: |
| 2.23 | A. the room has a roof; |

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| 3.1 | B. the room is bo | unded by walls, doorways, or | windows, whether op | en or |
| 3.2 | closed; and | | • | |
| 3.3 | <u>C.</u> the walls, door | ways, or windows cover more | than 50 percent of the | combined |
| 3.4 | surface area of the vertical p | lanes that make up the room's | perimeter (sides). | |
| 3.5 | Subp. 7e. Operator. " | Operator" means the person d | esignated by the own | er as |
| 3.6 | responsible to operate and m | naintain the indoor ice arena. | | • |
| 3.7 | Subp. 7f. Owner. "Ow | vner" means the person having | g legal title to the inde | or ice |
| 3.8 | arena or the owner's legally | authorized representative. | - | |
| 3.9 | Subp. 8. Person. "Per | son" means any natural person | n <u>individual</u> , corporat | ion, |
| 3.10 | partnership, or other busines | ss association and includes the | e state and its politica | ıl |
| 3.11 | subdivisions. | | | |
| 3.12 | Subp. 8a. Responsible | e person. "Responsible person | n" means the individu | <u>ial</u> |
| 3.13 | authorized by the operator to | o ensure acceptable air quality | conditions in the area | <u>1a.</u> |
| 3.14 | Subp. 9. Resurfacing | machine. "Resurfacing machi | ne " means internal ec | mbustion |
| 3.15 | engine-powered operation o | <u>f an</u> ice resurfacing machine <u>r</u> | esurfacer. | |
| 3.16 | 4620.4100 RESURFACIN | G MACHINES CERTIFICA | ATE OF APPROVAL | |
| 3.17 | Subpart 1. Applicabili | ty. After July 1, 1973, No pers | son shall<u>may</u> own or | operate an |
| 3.18 | <u>indoor</u> ice arena in which a | resurfacing machine is used u | nless the commission | er issues |
| 3.19 | the person a certificate is iss | sued by the commissioner of h | realth. The certificate | must |
| 3.20 | be displayed in a conspicuo | us place in the ice arena. If all | l conditions specified | in parts |
| 3.21 | 4620.3900 to 4620.4800 are | met, the commissioner of her | th shall issue a certif | icate. |
| 3.22 | Subp. 2. Certificate a | pplication. Applications for a | certificate must be su | bmitted on |
| 3.23 | forms prescribed by the con | nmissioner. An application mu | 1st be submitted: | |
| 3.24 | A. annually, by o | wners or operators of all existi | ing indoor ice arenas; | and |

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| 4.1 | B. at least 30 days be | fore owners or operators o | pen new indoor ice | arenas |
| 4.2 | to the public. | | | |
| 4.3 | Subp. 3. Certificate issua | nce. The commissioner mu | ist issue a certificat | te under |
| 4.4 | subpart 2, if the commissioner d | letermines that the owner o | r operator has com | plied with |
| 4.5 | parts 4620.3900 to 4620.4800 a | nd demonstrated the ability | to maintain accep | table air |
| 4.6 | quality conditions in the arena b | ouilding. | | |
| 4.7 | Subp. 4. Certificate expire | ation and renewal. A cert | ificate issued under | r this part |
| 4.8 | expires one year from the date of | of issue. | | • |
| 4.9 | A. Owners or operato | rs must apply for renewal | on forms prescribe | d by the |
| 4.10 | commissioner at least 30 days b | efore a certificate expires. | • • | |
| 4.11 | B. If a certificate expi | res while a renewal application | ation is pending ap | proval, the |
| 4.12 | arena may continue to operate un | nder the expired certificate | until the commission | oner issues a |
| 4.13 | new certificate or denies the ren | ewal application. | | · · · |
| 4.14 | Subp. 5. Posting of certifi | cate. The certificate must l | be prominently disp | olayed in a |
| 4.15 | location that is clearly visible to | the public. | | |
| 4.16 | 4620.4450 TRAINING. | | | |
| 4.17 | Subpart 1. Requirements. | The owner or operator m | ust ensure that a tra | ained |
| 4.18 | responsible person is available i | n the arena building at all t | imes that the arena | is open to |
| 4.19 | the public. Training must: | | | |
| 4.20 | A. be appropriate for | the trainee's level of respor | <u>isibility in operatin</u> | g the arena; |
| 4.21 | B. be performed annu | <u>ially;</u> | | |
| 4.22 | C. include the follow | ing topics: | | |
| 4.23 | (1) acceptable air | r quality conditions; | | |
| 4.24 | (2) methods of m | aaintaining acceptable air q | uality in the arena; | |

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| 5.1 | | (3) proper operation and | d storage of the arer | na air quality measur | ring device; |
| 5.2 | | (4) proper collection of | air samples with th | e arena air quality n | neasuring |
| 5.3 | device; | | | | |
| 5.4 | | (5) appropriate actions | for correcting unacc | ceptable air quality; | and |
| 5.5 | | (6) record-keeping requ | irements; and | | |
| 5.6 | <u>D.</u> | be documented. | | | |
| 5.7 | Subp. 2 | 2. Documentation. Traine | es must acknowled | ge, with their writte | n signature, |
| 5.8 | that they ha | ve received training meetin | g the requirements | of this part. Owners | or operators |
| 5.9 | <u>must mainta</u> | ain the written acknowledg | ment according to p | oart 4620.4650. | |
| 5.10 | <u>4620.4510</u> | MEASUREMENT OF A | IR QUALITY CO | NDITIONS. | |
| 5.11 | Subpar | t 1. Measuring air qualit | y. Owners or opera | tors of indoor ice are | enas must |
| 5.12 | measure car | rbon monoxide and nitroge | n dioxide air conce | ntrations in each are | na when |
| 5.13 | internal con | nbustion engine-powered ic | ce maintenance equ | ipment is used. | |
| 5.14 | Subp. 2 | 2. Persons who can take 1 | measurements. Me | asurements must be | made by an |
| 5.15 | individual v | who has received training a | s specified in part 4 | 620.4450. | |
| 5.16 | Subp. 2 | 3. Measurements for ice | resurfacing. Owner | rs or operators must | measure air |
| 5.17 | concentratio | ons at least twice per week | after using an inter | nal combustion engi | ne-powered |
| 5.18 | ice resurfac | er. Measurements must be | taken: | | |
| 5.19 | <u>A.</u> | at board height, inside th | e boards, and at the | centerline of the ice | <u>);</u> |
| 5.20 | <u>B</u> . | 20 minutes after complet | ing resurfacing unle | ess the commissioner | r has granted |
| 5.21 | the operator | r approval to measure unde | r an alternative sch | edule; | |
| 5.22 | <u>C.</u> | at times of maximum use | e of the resurfacing | machine; and | |
| 5.23 | <u>D</u> . | at least once on Saturday | v or Sunday of each | week that the arena | is open |
| 5.24 | to the publi | <u>c.</u> | | | |

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| 6.1 | Subp. 4. Measurements for | r ice edging. | | |
| 6.2 | A. Owners or operator | s must measure air conce | ntrations at least on | ce per week |
| 6.3 | after using an internal combustio | n engine-powered ice ed | ger. Measurements | must be |
| 6.4 | taken following a time of maxim | um ice edger use at boar | d height, inside the | boards, |
| 6.5 | and at the centerline of the ice: | · . | | |
| 6.6 | (1) 20 minutes aft | er completing edging if t | he arena building is | open to |
| 6.7 | the public when edging occurs; c | <u>or</u> | · · · | |
| 6.8 | (2) before the pub | lic reoccupies the arena, | if the arena is not o | pen to the |
| 6.9 | public when edging occurs. | • | | |
| 6.10 | B. Owners or operator | s may measure under an | alternative schedule | e if the |
| 6.11 | commissioner has approved one. | | | |
| 6.12 | Subp. 5. Measurement rec | cords. Owners or operate | ors must keep a reco | ord of |
| 6.13 | measurement findings and make | them available to the con | nmissioner upon rec | luest. |
| 6.14 | Subp. 6. Additional measu | rements. Owners or ope | erators must make a | dditional |
| 6.15 | measurements as determined by | the commissioner. | | |
| 6.16 | 4620.4550 AIR QUALITY ME | EASURING DEVICES. | | |
| 6.17 | Subpart 1. Device requiren | nents. The owner or oper | rator must demonstr | ate that the |
| 6.18 | device and methods used to meas | sure air quality condition | s are accurate and re | eliable. Air |
| 6.19 | quality measuring devices must | be: | 7 | |
| 6.20 | A. capable of measuring | ng carbon monoxide air c | concentrations in a r | ange from 0 |
| 6.21 | to 100 parts per million (ppm) in | increments of 1 ppm; or | | |
| 6.22 | B. capable of measuring | ng nitrogen dioxide air co | oncentrations in a ra | inge from |
| 6.23 | 0 to 5 parts per million (ppm) in | increments of 0.1 ppm. | | |
| | | | | |

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| 7.1 | Subp. 2. Maintenance. The or | wner or operator must | operate, store, mainta | in, and |
| 7.2 | calibrate the devices according to th | e device manufacturer | s specifications. The | owner or |
| 7.3 | operator must also keep maintenanc | e and calibration recor | <u>ds.</u> | |
| 7.4 | 4620.4600 FAILURE TO MAINT | AIN AIR QUALITY | | |
| 7.5 | Subpart 1. Corrective action 1 | necessary. When one-l | our averages of more | than 30 |
| 7.6 | ppm but less than 125 ppm of carbo | n monoxide and/or me | re than 0.5 ppm but le | ess than 2 |
| 7.7 | ppm of nitrogen dioxide exist in the | arena, immediate corr | ective action must be | taken. |
| 7.8 | This may include an immediate incl | ease in the ventilation | rate and/or an increas | e in the |
| 7.9 | interval between resurfacing operati | ons. Subsequent tests | shall be conducted to | confirm |
| 7.10 | the effectiveness of such action. Th | e owner or operator m | ust take immediate co | rrective |
| 7.11 | action when measurements of more | than 20 ppm of carbon | 1 monoxide or more t | <u>han 0.3</u> |
| 7.12 | ppm of nitrogen dioxide are made i | n an area of the arena | ouilding that is open t | to the |
| 7.13 | public. Corrective action must inclu | <u>ıde:</u> | | · |
| 7.14 | A. increasing the ventilat | ion rate immediately; | and | |
| 7.15 | B. suspending internal co | mbustion-powered equ | ipment use. | |
| 7.16 | The owner or operator must continu | e corrective action unt | il measurements show | v not more |
| 7.17 | than 20 ppm of carbon monoxide an | nd not more than 0.3 p | om of nitrogen dioxid | le in all |
| 7.18 | areas of the arena building that are | open to the public. | | |
| 7.19 | Subp. 2. Report Follow-up to | esting. Whenever the c | onditions of subpart f | l occur, |
| 7.20 | a report must be submitted to the e | ommissioner of health | within five working c | lays |
| 7.21 | explaining why the methods of air of | quality control had fail | ed, what immediate e | orrective |
| 7.22 | action was taken, and what action is | s planned to prevent re | eurrence of exceeding | 3 the air |
| 7.23 | quality standards. The owner or op- | erator must conduct an | d document the follow | <u>ving air</u> |
| 7.24 | quality tests to confirm the effective | eness of the corrective | action: | |
| 7.25 | A. at 20-minute intervals | until measurements sl | now not more than 20 | ppm of |
| 7.26 | carbon monoxide and not more that | n 0.3 ppm of nitrogen | lioxide; | |

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| 8.1 | B. 20 minutes after the next five uses of ice maintenance equipment; and | |
| 8.2 | C. at least once per day for the subsequent three days of arena operation. | |
| 8.3 | Subp. 3. Substantial risk to health of persons Report. One-hour average air | |
| 8.4 | concentrations of more than 125 ppm of carbon monoxide and/or more than 2 ppm of | |
| 8.5 | nitrogen dioxide constitute an imminent, substantial danger to the health of persons. T | he |
| 8.6 | arena shall be closed immediately and all people evacuated. The arena may reopen wh | ien |
| 8.7 | the air quality standards of part 4620.4300 are obtained and can be maintained. The | |
| 8.8 | same procedure preseribed in part 4620.4600, subpart 2, shall be followed. Whenever | • |
| 8.9 | corrective action is required under subpart 1, the owner or operator must submit a repo | <u>rt to</u> |
| 8.10 | the commissioner within five business days that includes: | |
| 8.11 | A. an explanation of why corrective action was necessary; | |
| 8.12 | B. a description of the immediate corrective actions that were taken; | |
| 8.13 | C. a record of all air quality tests required by subpart 2; and | |
| 8.14 | D. an action plan to prevent a reoccurrence. | |
| 8.15 | Subp. 4. Arena evacuation necessary. | |
| 8.16 | A. The owner or operator must evacuate an area of the arena building whene | ver: |
| 8.17 | (1) measured carbon monoxide air concentrations exceed 85 ppm or | |
| 8.18 | measured nitrogen dioxide air concentrations exceed 2.0 ppm for more than five minut | tes; |
| 8.19 | (2) measured carbon monoxide air concentrations exceed 40 ppm or | · |
| 8.20 | measured nitrogen dioxide air concentrations exceed 0.6 ppm for more than one hour a | <u>after</u> |
| 8.21 | originally measuring unacceptable air quality conditions; or | |
| 8.22 | (3) measured carbon monoxide air concentrations exceed 20 ppm or | |
| 8.23 | measured nitrogen dioxide air concentrations exceed 0.3 ppm for more than two hours | <u>s</u> |
| 8.24 | after originally measuring unacceptable air quality conditions. | |

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| 9.1 | <u>B.</u> | When evacuation become | s necessary, the owne | r or operator must: | • |
| 9.2 | | | department as soon a | | <u>st</u> |
| 9.3 | assistance in | evacuating the facility and | l assessing the hazard | ; and | |
| 9.4 | | (2) contact the Minneso | ta Department of Hea | lth upon completing | 2 |
| 9.5 | evacuation. | | | | |
| 9.6 | <u>C.</u> | The evacuated areas may | only be reoccupied b | y the public after ar | <u>1</u> |
| 9.7 | evacuation u | under item A if: | | | |
| 9.8 | | (1) acceptable air qualit | y conditions are meas | ured; | |
| 9.9 | | (2) corrective measures | have been taken to pr | event further incider | nce of |
| 9.10 | unacceptable | e air quality conditions; and | <u>d</u> | | |
| 9.11 | * | (3) acceptable air qualit | y conditions and corre | ective measures are | verified |
| 9.12 | by the local | fire department or the Min | nesota Department of | Health. | |
| 9.13 | 4620.4650 | RECORD KEEPING. | | | |
| 9.14 | The ow | ner or operator must keep a | a record-keeping log t | o maintain all docun | nentation |
| 9.15 | required by | parts 4620.3900 to 4620.46 | <u>500.</u> | | |
| 9.16 | <u>A.</u> | Documents that must be r | naintained in the reco | rd-keeping log are: | |
| 9.17 | | (1) training records requ | ired by part 4620.445 | <u>50;</u> | |
| 9.18 | | (2) air quality measuren | nent records required | by part 4620.4510, s | ubpart 5; |
| 9.19 | | (3) air quality measurin | g device records requ | ired by part 4620.45 | 550, |
| 9.20 | subpart 2; a | nd | | | |
| 9.21 | · · · | (4) corrective action rep | orts required by part | 4620.4600, subpart 3 | <u>3.</u> |
| 9.22 | <u>B.</u> | The record-keeping log m | nust be kept in the are | na building and be a | vailable |
| 9.23 | for public a | nd commissioner review du | uring all hours that the | e arena building is or | pen to |
| 9.24 | the public. | | | | |

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| 10.1 | C. Required documents | must be retained for at | least three years. | |
| 10.2 10.3 | 4620.4700 OTHER INTERNAI <u>EQUIPMENT</u> . | - COMBUSTION ENG | HNES<u>FUEL-BUI</u> | <u>RNING</u> |
| 10.4 | After July 1, 1973, no person | who owns or operates a | n enclosed sports <u>T</u> | The owner or |
| 10.5 | operator of an indoor ice arena op | en to the general public | shall permit the op | cration of |
| 10.6 | other internal combustion engine- | powered equipment or v | chicles for racing, | competition, |
| 10.7 | demonstration, or other purposes | unless a certificate is iss | ued by the commis | ssioner |
| 10.8 | of health. If all conditions specifi | ed in parts 4620.3900 to |) 4620.4800 are m | et, the |
| 10.9 | commissioner of health shall issue | e a certificate. The certif | ficate must be displ | ayed in a |
| 10.10 | conspicuous place in the arena. m | ust measure air quality c | conditions and ensu | re acceptable |
| 10.11 | air quality in the arena building w | hen equipment, other th | an ice maintenance | equipment, |
| 10.12 | capable of producing carbon mon | oxide or nitrogen dioxid | e, but that is not di | rectly vented |
| 10.13 | to the outdoors, is used for operat | ing or maintaining the a | rena. | |
| 10.14 | Applications for a certificate | must be submitted at lea | st 45 days prior to 1 | the event and |
| 10.15 | upon forms prescribed by the com | missioner of health. The | e application must | be submitted |
| 10.16 | by both the owner/operator of the | arena and the sponsor of | Ethe activities whie | h involve use |
| 10.17 | of internal combustion engines. | | | |
| 10.18 | The provisions of parts 4620 | .4300, 4620.4400, 4620 | .4500, subpart 2, ai | nd part |
| 10.19 | 4620.4600 , subparts 1 and 3, shal | l also apply. Air quality | r conditions shall <u>m</u> | nust be |
| 10.20 | measured and reports made as dir | ected by the commissior | ner of health directs | depending |
| 10.21 | upon the specific type of activity | to be conducted in the b | uilding. | |
| 10.22 10.23 | 4620.4800 REVOCATION OR <u>ENFORCEMENT</u> . | SUSPENSION OF API | PROVAL; REINS | FATEMENT |
| 10.24 | The commissioner of health i | may suspend or revoke t | he approval granted | l pursuant to |
| 10.25 | parts 4620.4100 and 4620.4700 u | pon the finding of violat | ions of the provisio | ons of parts |
| 10.26 | 4620.3900 to 4620.4800. All pro- | ceedings shall be in acco | ordance with the M | linnesota |
| 10.27 | Administrative Procedure Act, M | innesota Statutes, chapte | 7 14. | |

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A suspended or revoked certificate of approval shall be returned to the commissioner 11.1 of health. 11.2 Reinstatement shall be in accordance with the suspension or revocation order and 11.3 upon an adequate showing that the grounds for suspension or revocation shall not recur. 11.4 The commissioner may take one or more enforcement actions listed in Minnesota 11.5 Statutes, sections 144.989 to 144.993, for a violation of this chapter. 11.6 4620.4900 VARIANCE TO ENCLOSED SPORTS ARENA RULES RELATING 11.7 **TO INDOOR ICE ARENAS.** 11.8 The commissioner shall may grant variances to parts 4620.3900 to 4620.4800, except 11.9 part 4620.4300 4620.3950, only according to the procedures and criteria specified in 11.10 parts 4717.7000 to 4717.7050. 11.11 4620.5000 PURPOSE. 11.12 The purpose of parts 4620.5000 to 4620.5900 is to protect public health by ensuring 11.13 acceptable air quality in the operation and maintenance of indoor motorsports arenas. 11.14 **4620.5100 APPLICATION.** 11.15 Parts 4620.5000 to 4620.5900 apply to owners or operators of indoor motorsports 11.16 11.17 arenas. 4620.5200 ACCEPTABLE AIR QUALITY. 11.18 The owner or operator of an indoor motorsports arena must maintain acceptable air 11.19 quality conditions at all times in areas of the arena building that are open to the public. 11.20 Such conditions are defined as: one-hour average air concentrations of not more than 30 11.21 parts of carbon monoxide per one million parts of air by volume (30 ppm), and one-hour 11.22 average air concentrations of not more than 0.3 parts of nitrogen dioxide per one million 11.23 parts of air by volume (0.3 ppm). 11.24 **4620.5300 DEFINITIONS.** 11.25 4620.5300 11

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| 12.1 [·] | Subpart 1. Scope. For the purpose | s of parts 4620.5000 | to 4620.5900, the f | ollowing |
| 12.2 | terms have the meanings given them. | | | |
| 12.3 | Subp. 2. Air quality measuring of | levice. "Air quality 1 | neasuring device" 1 | neans |
| 12.4 | direct-read pump and colorimetric tube | or electronic real-tim | e gas detection equ | ipment for |
| 12.5 | sampling and measuring nitrogen dioxi | de or carbon monoxio | le air concentration | <u>s.</u> |
| 12.6 | Subp. 3. Arena. "Arena" means a | n indoor motorsports | arena. | |
| 12.7 | Subp. 4. Arena building. "Arena | building" means a st | ructure with a roof | and walls |
| 12.8 | that houses an indoor motorsports aren | <u>a.</u> | | |
| 12.9 | Subp. 5. Certificate. "Certificate' | ' means a certificate of | of approval issued b | by the |
| 12.10 | commissioner under parts 4620.5000 to | 4620.5900. | | |
| 12.11 | Subp. 6. Commissioner. "Commi | ssioner" means the c | ommissioner of hea | lth or the |
| 12.12 | commissioner's designee. | | | |
| 12.13 | Subp. 7. Event manager. "Event | manager" means the | person who organi | zes or |
| 12.14 | directs a special indoor motorsports even | ent. | | |
| 12.15 | Subp. 8. Indoor motorsports are | na. "Indoor motorsp | orts arena" means a | u single ' |
| 12.16 | room of a permanent or temporary strue | cture where motorspo | orts are operated ha | ving the |
| 12.17 | following characteristics: | | | |
| 12.18 | <u>A.</u> the room has a ceiling; | | | |
| 12.19 | B. the room is bounded by w | alls, doorways, or w | indows, whether op | en or |
| 12.20 | closed; and | | | |
| 12.21 | C. the walls, doorways, or wi | ndows cover more th | an 50 percent of the | combined |
| 12.22 | surface area of the vertical planes that r | nake up the room's p | erimeter (sides). | |
| 12.23 | Subp. 9. Motorsports vehicle. "N | Iotorsports vehicle" | means an internal co | ombustion |
| 12.24 | engine-powered vehicle used for recrea | tion, racing, competi | tion, or demonstrati | on. |

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| 13.1 | Subp. 10. Operating ho | ours. "Operating hours" mea | ans the time period the | at the |
| 13.2 | indoor motorsports arena buil | ding is open to the public a | nd motorsports vehicle | es are |
| 13.3 | being used in the arena. | | | |
| 13.4 | Subp. 11. Operator. "O | perator" means the person of | designated by the own | er as |
| 13.5 | responsible to operate and ma | intain the indoor motorspor | ts arena. | |
| 13.6 | Subp. 12. Owner. "Own | er" means the person having | g legal title to the aren | a building |
| 13.7 | or the owner's legally authorized | | | |
| 13.8 | Subp. 13. Person. "Pers | on" means any natural indiv | /idual, corporation, pa | rtnership, |
| 13.9 | or other business association a | and includes the state and its | s political subdivisions | <u>3.</u> |
| 13.10 | Subp. 14. Responsible | person. "Responsible perso | on" means the individu | 1 <u>al</u> |
| 13.11 | authorized by the operator to e | ensure acceptable air quality | conditions in the aren | <u>a building.</u> |
| 13.12 | Subp. 15. Special indoo | or motorsports event. "Spe | cial indoor motorsport | ts event" |
| 13.13 | means a single event where m | notorsports vehicles are oper | rated in an arena. | |
| 13.14 | Subp. 16. Spectator. "S | pectator" means a member o | of the public present in | the arena |
| 13.15 | building who is not a motorsp | oorts vehicle driver or rider of | or an actively working | employee. |
| 13.16 | Subp. 17. Spectator are | a. "Spectator area" means th | nat part of the indoor n | notorsports |
| 13.17 | arena building where spectato | ors are allowed to assemble. | | |
| 13.18 | 4620.5400 CERTIFICATE | OF APPROVAL. | | |
| 13.19 | Subpart 1. Applicability | . No person shall own or op | perate an indoor moto | rsports |
| 13.20 | arena unless the commissione | er issues the person a certific | cate. | |
| 13.21 | Subp. 2. Certificate app | olication. Applications for a | a certificate must be su | bmitted on |
| 13.22 | forms prescribed by the comm | nissioner. An application m | ust be submitted: | |
| 13.23 | A. annually, by ow | ners or operators of existing | ; indoor motorsports a | renas; |
| | | | | |

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| 14.1 | B. at least 30 days before | owners or operators | open new indoor mot | orsports |
| 14.2 | arenas to the public; and | | | |
| 14.3 | C. at least 30 days before | the arena owners or o | perators and the even | nt manager |
| 14.4 | begin a special indoor motorsports | event. | | |
| 14.5 | Subp. 3. Certificate issuance. | <u>.</u> | • | |
| 14.6 | A. The commissioner mu | ist issue a certificate u | nder subpart 2, item | A or B, |
| 14.7 | if the commissioner determines that | t the owner or operato | or has complied with | parts |
| 14.8 | 4620.5000 to 4620.5900 and demor | nstrated the ability to r | naintain acceptable a | ir quality |
| 14.9 | conditions in the arena building. | | | |
| 14.10 | B. The commissioner sha | ll issue a certificate gr | anting approval to he | old a special |
| 14.11 | indoor motorsports event if the own | er or operator meets t | he requirements of ite | em A and: |
| 14.12 | (1) submits a written | plan to the commissi | oner that describes th | e methods |
| 14.13 | that the owner or operator will use t | to monitor air quality a | and ensure acceptable | <u>e air quality</u> |
| 14.14 | during the event; and | | | |
| 14.15 | (2) the event manage | er and arena operator | agree to the terms of | the plan |
| 14.16 | in writing. | | | |
| 14.17 | Subp. 4. Certificate expiration | on and renewal. A ce | rtificate issued under | this part |
| 14.18 | expires one year from the date of is | ssue, except that a cer | tificate for a special i | ndoor |
| 14.19 | motorsports event expires as the ce | rtificate describes. | | |
| 14.20 | A. Owners or operators s | shall apply for renewa | l on forms prescribed | 1 by the |
| 14.21 | commissioner at least 30 days befor | re a standard certificat | e expires. | |
| 14.22 | B. If a certificate expires | while a renewal appli | cation is pending app | proval, the |
| 14.23 | arena may continue to operate unde | r the expired certificat | e until the commission | oner issues a |
| 14.24 | new certificate or denies the renew | al application. | · · · | |

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| 15.1 | Subp. 5. Posting of certificate. T | The certificate mus | t be prominently displa | yed in a |
| 15.2 | location that is clearly visible to the pu | iblic. | | |
| 15.3 | 4620.5500 TRAINING. | · | | |
| 15.4 | Subpart 1. Requirements. The o | wner or operator r | nust ensure that a train | ed |
| 15.5 | responsible person is available in the a | rena building at al | l times that the arena is | open to |
| 15.6 | the public. Training must: | | | |
| 15.7 | A. be appropriate for the trai | inee's level of resp | onsibility in operating t | <u>he arena;</u> |
| 15.8 | B. be performed annually; | | | |
| 15.9 | C. include the following top | ics: | | |
| 15.10 | (1) acceptable air qualit | y conditions; | | |
| 15.11 | (2) methods of maintain | ning acceptable air | quality in the arena; | |
| 15.12 | (3) proper operation and | d storage of the are | ena air quality measurin | ig device; |
| 15.13 | (4) proper collection of | air samples with t | he arena air quality me | asuring |
| 15.14 | device; | | | |
| 15.15 | (5) appropriate actions | for correcting unac | cceptable air quality; an | <u>ıd</u> |
| 15.16 | (6) record-keeping requ | irements; and | | |
| 15.17 | D. be documented. | | | |
| 15.18 | Subp. 2. Documentation. Traine | es shall acknowled | dge, with their written s | signature, |
| 15.19 | that they have received training meeting | ng the requiremen | ts of this part. The writ | <u>tten</u> |
| 15.20 | acknowledgment shall be maintained a | according to part 4 | 620.5800. | |
| 15.21 | 4620.5600 MEASUREMENT OF A | IR QUALITY CO | ONDITIONS. | |

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| 16.1 | Subpart 1. Measuring air quality. Owners or operators of indoor motorsports arenas |
| 16.2 | must measure carbon monoxide and nitrogen dioxide air concentrations in each indoor |
| 16.3 | motorsports arena as directed by the commissioner. |
| 16.4 | Subp. 2. Persons who can take measurements. Measurements must be made by an |
| 16.5 | individual who has received training as specified in part 4620.5500. |
| 16.6 | Subp. 3. Measurement requirements. |
| 16.7 | A. Owners and operators must measure nitrogen dioxide air concentrations as |
| 16.8 | the commissioner directs depending on the specific type of activity to be conducted in |
| 16.9 | the arena. |
| 16.10 | B. Owners and operators must measure carbon monoxide air concentrations in |
| 16.11 | each indoor motorsports arena building as follows: |
| 16.12 | (1) Frequency of measurements. |
| 16.13 | (a) Certified arenas: |
| 16.14 | i. at least two days per week; |
| 16.15 | ii. at least three hours per week during maximum use of |
| 16.16 | motorsports vehicles; and |
| 16.17 | iii. as the commissioner deems necessary. |
| 16.18 | (b) Special indoor motorsports events: |
| 16.19 | i. on each day of motorsport vehicle use; |
| 16.20 | ii. during all operating hours; and |
| 16.21 | iii. as the commissioner deems necessary. |
| 16.22 | (2) Location and documentation of measurements. |

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| 17.1 | <u>(a)</u> | If motorsports ve | ehicle riders or driv | ers are not paid perfor | mers, |
| 17.2 | measurements must b | <u>e:</u> | | | |
| 17.3 | | i. made at a loc | ation on the track the | hat represents average | carbon |
| 17.4 | monoxide concentration | ons. The owner or | operator must ider | tify a location on the | track that |
| 17.5 | represents average car | bon monoxide co | ncentrations; and | | |
| 17.6 | | ii. recorded at l | east every 15 minu | tes when motorsports | vehicles |
| 17.7 | are used in the arena. | | | | |
| 17.8 | <u>(b)</u> | If spectators are | present during mot | orsports activities, the | operator |
| 17.9 | must measure air qual | ity conditions in t | he spectator area as | s follows: | |
| 17.10 | | i. at the locatio | n of poorest air qua | lity in the spectator a | tea of |
| 17.11 | the arena. The owner | or operator must | identify the location | n where the general pu | iblic is |
| 17.12 | exposed to the highes | t carbon monoxid | e levels; and | | |
| 17.13 | | ii. recorded at | east once every 15 | minutes in the spectat | or area |
| 17.14 | when motorsports veh | icles are used in t | the arena. | | |
| 17.15 | Subp. 4. Measu | rement records. | Owners or operator | rs must keep a record | of |
| 17.16 | measurement findings | and make it avail | able to the commis | sioner upon request. | |
| 17.17 | 4620.5650 AIR QUA | LITY MEASUR | RING DEVICES. | | |
| 17.18 | Subpart 1. Devic | e requirements. | The owner or operation | ator must demonstrate | that the |
| 17.19 | devices and methods | used to measure a | ir quality condition | s are accurate and relia | able. Air |
| 17.20 | quality measuring dev | vices must be: | | · | |
| 17.21 | A. capable | of measuring cart | oon monoxide air co | oncentrations in a rang | <u>e from 0</u> |
| 17.22 | to at least 100 parts p | er million (ppm) i | n increments of 1 p | pm; or | |
| 17.23 | B. capable | of measuring nitro | ogen dioxide air con | centrations in a range | from 0 to |
| 17.24 | at least 5 ppm in incre | ements of 0.1 ppn | <u>1.</u> | | |

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| 18.1 | Subp. 2. Maintenance. The own | er or operator mus | t operate, store, maint | tain, and |
| 18.2 | calibrate the devices according to the d | | | |
| 18.3 | operator must also keep maintenance a | | | |
| | · | | | 5. |
| 18.4 | 4620.5700 FAILURE TO MAINTAI | N AIR QUALITY | <u>.</u> | |
| 18.5 | Subpart 1. Corrective action nec | essary. The owner | or operator must take | e immediate |
| 18.6 | corrective action when measurements of | of more than 30 pp | m of carbon monoxic | le or more |
| 18.7 | than 0.3 ppm of nitrogen dioxide are m | hade for more than | 15 minutes in an are | a of the |
| 18.8 | arena building that is open to the public | c. Corrective actio | n must include: | |
| 18.9 | A. increasing the ventilation | n rate immediately | ; and | |
| 18.10 | B. suspending internal comb | ustion-powered eq | uipment use, if carbo | n monoxide |
| 18.11 | measurements remain in excess of 30 p | opm or nitrogen die | oxide measurements i | remain in |
| 18.12 | excess of 0.3 ppm for more than one ho | our after an origina | l exceeding measure | ment. |
| 18.13 | The owner or operator must contin | nue corrective action | on until measurement | s show not |
| 18.14 | more than 30 ppm of carbon monoxide | and not more than | 1 0.3 ppm of nitrogen | dioxide in |
| 18.15 | all areas of the arena building that are | open to the public. | • | |
| 18.16 | Subp. 2. Follow-up testing. The | owner or operator | must conduct and do | cument the |
| 18.17 | following air quality tests to confirm the | e effectiveness of | the corrective actions | : <u>.</u> |
| 18.18 | A. at 15-minute intervals un | til measurements s | how not more than 3 | 0 ppm of |
| 18.19 | carbon monoxide and not more than 0. | 3 ppm of nitrogen | dioxide; and | |
| 18.20 | B. at 15-minute intervals for | at least one hour | per day for the subsec | uent three |
| 18.21 | days of arena operation. | | | x |
| 18.22 | Subp. 3. Report. Whenever the c | conditions of subpa | rt 1 occur, the owner | or operator |
| 18.23 | must submit a report to the commission | ner within five bus | iness days that includ | es: |
| 18.24 | A. an explanation of why co | rrective action wa | s necessary; | · · · |
| 18.25 | B. a description of the imme | diate corrective ac | tions that were taken | - 2 |

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| 19.1 | <u>C.</u> ar | ecord of all air quality tests | required by subpa | rt 2; and | |
| 19.2 | D. an | action plan to prevent a rec | currence. | | |
| 19.3 | Subp. 4. A | rena evacuation necessary | <u>y.</u> | | · . · · |
| 19.4 | <u>A.</u> <u>Th</u> | e owner or operator must ev | vacuate an area of t | he arena building w | henever: |
| 19.5 | <u>(1</u> | measured carbon monox | ide air concentrati | ons exceed 85 ppm | or |
| 19.6 | measured nitrog | en dioxide concentrations e | exceed 2.0 ppm for | more than 15 minu | tes; or |
| 19.7 | <u>(2</u> |) measured carbon monox | ide air concentrati | ons exceed 30 ppm | or |
| 19.8 | measured nitrog | en dioxide air concentration | ns exceed 0.3 ppm | for more than two | hours |
| 19.9 | after originally | neasuring unacceptable air | quality conditions | <u>.</u> | |
| 19.10 | <u>B.</u> <u>W</u> | nen evacuation becomes ne | cessary, the owner | or operator must: | |
| 19.11 | (1 |) contact the local fire dep | partment as soon a | s possible to reques | t |
| 19.12 | assistance in eva | acuating the facility and ass | | | |
| | | · · · | | | |
| 19.13 | (2 |) contact the Department of | of Health upon con | npleting the evacuat | <u>10n.</u> |
| 19.14 | <u>C.</u> <u>Ev</u> | acuated areas may only be | reoccupied by the | public after an evac | uation |
| 19.15 | under item A if | <u>.</u> | | | |
| 19.16 | <u>(1</u> |) acceptable air quality co | nditions are measu | ired; | |
| 19.17 | <u>(2</u> |) corrective measures have | e been taken to pre | vent further incider | nce of |
| 19.18 | unacceptable ai | quality conditions; and | | | |
| 19.19 | <u>(3</u> |) acceptable air quality co | onditions and corre | ctive measures are y | verified |
| 19.20 | by the local fire | department or the Departm | nent of Health. | | |
| 19.21 | <u>4620.5800</u> <u>RE</u> | CORD KEEPING. | · · | | · |
| 19.22 | The owner | or operator must keep a rec | cord-keeping log to | <u>) maintain all docum</u> | nentation |
| 19.23 | according to pa | rts 4620.5000 to 4620.5900 | <u>).</u> | | |
| 19.24 | <u>A.</u> <u>D</u> | ocuments that must be main | ntained in the recor | d-keeping log are: | |

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| 20.1 | (1) training records required by part 4620.5500; |
| 20.2 | (2) air quality measurement records required by part 4620.5600, subpart 4; |
| 20.3 | (3) air quality measuring device records required by part 4620.5650, |
| 20.4 | subpart 2; and |
| 20.5 | (4) corrective action reports required by part 4620.5700, subpart 3. |
| 20.6 | B. The record-keeping log must be kept in the arena building and be available |
| 20.7 | for public and commissioner review during all hours that the arena building is open to |
| 20.8 | the public. |
| 20.9 | C. Required documents must be retained for at least three years. |
| 20.10 | 4620.5900 ENFORCEMENT. |
| 20.11 | The commissioner may take one or more of the enforcement actions listed in |
| | |
| 20.12 | Minnesota Statutes, sections 144.989 to 144.993, for a violation of parts 4620.5000 to |
| 20.12 20.13 | Minnesota Statutes, sections 144.989 to 144.993, for a violation of parts 4620.5000 to 4620.5900. |
| 20.13 | 4620.5900. |
| | |
| 20.13 20.14 | <u>4620.5900.</u> <u>4620.5950</u> <u>VARIANCE TO RULES RELATING TO INDOOR MOTORSPORTS</u> |
| 20.13 20.14 20.15 | <u>4620.5900.</u> <u>4620.5950</u> <u>VARIANCE TO RULES RELATING TO INDOOR MOTORSPORTS</u> <u>ARENAS.</u> |
| 20.13 20.14 20.15 20.16 | 4620.5900. 4620.5950 VARIANCE TO RULES RELATING TO INDOOR MOTORSPORTS ARENAS. The commissioner may grant variances to parts 4620.5000 to 4620.5900, except part |
| 20.13 20.14 20.15 20.16 20.17 | 4620.5900. 4620.5950 VARIANCE TO RULES RELATING TO INDOOR MOTORSPORTS ARENAS. The commissioner may grant variances to parts 4620.5000 to 4620.5900, except part 4620.5200, only according to the procedures and criteria specified in parts 4717.7000 |