

CHAPTER 7065
MINNESOTA POLLUTION CONTROL AGENCY
WATER QUALITY DIVISION
EFFLUENT STANDARDS FOR DISPOSAL SYSTEMS

**INTRASTATE WATERS OF LAKE SUPERIOR
DRAINAGE BASIN AND INTERSTATE WATERS
OF LAKE ST. CROIX**

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**INTRASTATE WATERS OF LAKE SUPERIOR DRAINAGE BASIN
AND INTERSTATE WATERS OF LAKE ST. CROIX**

7065.0010 PURPOSE AND SCOPE.

The following standard of effluent quality and purity is hereby adopted and established for all of the intrastate waters of the state lying within the drainage basin of Lake Superior in the counties of Aitkin, Carlton, Cook, Itasca, Lake, Pine, and St. Louis (Townships 45-65 North, Ranges 7 East -- 23 West), and for the interstate waters of Lake St. Croix in Washington County (Townships 26-30 North, Range 20 West). This standard requirement shall be in addition to the standards imposed by any other regulations applying to these waters, and shall supersede any conflicting provisions.

Statutory Authority: *MS s 115.03 subd 1*

7065.0020 DEFINITIONS.

The terms "person," "sewage," "industrial wastes," "other wastes," "treatment works," "disposal systems," and "waters of the state," as well as any other pertinent terms for which definitions are given in the water pollution control statutes, as used herein have the meanings ascribed to them in Minnesota Statutes, chapters 115 and 116.

"Intrastate waters" include all of the waters of the state except interstate waters as defined in the Federal Water Pollution Control Act as amended by United States Code, title 33, sections 466 et seq., section 13(e). Thus the intrastate waters are all of the waters of the state that do not flow across or form a part of the state boundary. Other terms and abbreviations used herein not specifically defined in the law shall be construed in conformance with the context and professional usage.

Statutory Authority: *MS s 115.03 subd 1*

7065.0030 SEVERABILITY.

The provisions of this rule shall be severable and the invalidity of any lettered paragraph or any subparagraph or subdivision thereof shall not make void any other lettered paragraph, subparagraph, subdivision, or any other part thereof.

Statutory Authority: *MS s 115.03 subd 1*

7065.0040 STANDARD OF EFFLUENT QUALITY AND PURITY.

Except as otherwise provided herein it is hereby established as a minimum requirement applicable to all persons operating or causing to be operated or in any way responsible for the operation of a disposal system which discharges sewage, industrial waste, or other wastes directly to the above delineated waters, or which may affect these waters, that all effluents shall be treated prior to discharge so as to meet the following limiting permissible concentration:

Substance or Characteristic	Limiting Concentration
Phosphorus	1 milligram per liter

Statutory Authority: *MS s 115.03 subd 1*

7065.0050 MONTHLY REPORTS.

All persons operating sewage, industrial waste, or other waste disposal systems adjacent to or discharging to the waters covered by parts 7065.0010 to 7065.0070 shall submit every month a report to the Minnesota Pollution Control Agency on the operation of such disposal system, the effluent flow, and the characteristics and concentration of the effluents and receiving waters. Sufficient data on measurements, observations, sampling, and analyses and other pertinent information shall be furnished as may be required by the agency to reflect adequately the condition of the disposal system, the effluent, and the waters receiving the effluent.

Statutory Authority: *MS s 115.03 subd 1*

7065.0060 DETERMINATION OF COMPLIANCE.

In making tests or analyses of the sewage, industrial wastes, or other wastes to determine compliance with the standards, samples shall be collected in such manner and place, and of such type, number, and frequency as may be considered satisfactory by the agency. No allowance will be made for dilution of the effluents in the waters of the state into which they are discharged. The samples shall be preserved and analyzed in accordance with procedures given in Standard Methods for the Examination of Water and Waste Water, by the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation which is in effect on the effective date of these parts, or other methods acceptable to the agency.

Statutory Authority: *MS s 115.03 subd 1*

7065.0070 VARIANCE FROM STANDARD.

In any case where, upon application of the responsible person or persons, the agency finds that by reason of exceptional circumstances the strict enforcement of any provision of these standards would cause undue hardship; that disposal of the sewage, industrial waste, or other waste is necessary for the public health, safety, or welfare; or that strict conformity with the standards would be unreasonable, impractical or not feasible under the circumstances, the agency in its discretion may permit a variance therefrom upon such conditions as it may prescribe for prevention, control, or abatement of pollution in harmony with the general purposes of this standard and the intent of the applicable state and national laws.

Statutory Authority: *MS s 115.03 subd 1*

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ST. LOUIS RIVER, MISSISSIPPI RIVER, LITTLE MINNESOTA RIVER, BIG STONE LAKE, AND ALBERT LEA LAKE

7065.0100 SCOPE.

The following standards of effluent quality and purity are hereby adopted and established for the waters of the St. Louis River from its source at Seven Beaver Lake (Township 58 North, Range 12 West) to and including St. Louis Bay (Townships 49 and 50 North, Ranges 14 and 15 West) and Superior Bay (Townships 49 and 50 North, Ranges 13 and 14 West), the Mississippi River from its source to the Blandin dam at the outlet of Paper Mill Reservoir in the City of Grand Rapids approximately 400 feet upstream from the bridge on United States Highway 169 including Lake Andrusia (Township 146 North, Range 31 West), Lake Bemidji (Townships 146 and 147 North, Range 33 West), Cass Lake (Townships 145 and 146 North, Ranges 30 and 31 West), Lake Itasca (Township 143 North, Range 36 West), Pokegama Lake (Townships 54 and 55 North, Ranges 25 and 26 West), and Winnibigoshish Lake (Townships 145, 146, and 147 North, Ranges 27, 28, and 29 West), the Little Minnesota River and Big Stone Lake from the South Dakota border crossing to the outlet of Big Stone Lake at the dam immediately upstream from the United States Highway 12 bridge in Ortonville, and Albert Lea Lake (Township 102 North, Ranges 20 and 21 West) in Freeborn County.

Statutory Authority: *MS s 115.03 subd 1*

7065.0110 DEFINITIONS.

The terms "person," "sewage," "industrial wastes," "other wastes," "treatment works," "disposal systems," and "waters of the state," as well as any other pertinent terms for which definitions are given in the water pollution control statutes, as used herein have the meanings ascribed to them in Minnesota Statutes, chapters 115 and 116. Other terms and abbreviations used herein not specifically defined in the law shall be construed in conformance with the context and professional usage.

Statutory Authority: *MS s 115.03 subd 1*

7065.0120 SEVERABILITY.

The provisions of this rule shall be severable and the invalidity of any lettered paragraph or any subparagraph or subdivision thereof shall not make void any other lettered paragraph, subparagraph, subdivision or any other part thereof.

Statutory Authority: *MS s 115.03 subd 1*

7065.0130 STANDARDS OF EFFLUENT QUALITY AND PURITY.

Except as otherwise provided herein it is hereby established as a requirement applicable to all persons operating or causing to be operated or in any way responsible for the operation of a disposal system which discharges sewage, industrial waste, or other wastes directly to the above delineated waters, or which may affect these waters, that all effluents shall be treated prior to discharge so as to meet any or all of the following limiting permissible concentrations:

Substance or Characteristic	Limiting Concentration
5-day biochemical oxygen demand	25 milligrams per liter
Total suspended solids	30 milligrams per liter
Fecal coliform group organisms	200 most probable number per 100 milliliters
Total coliform group organisms*	1,000 most probable number per 100 milliliters

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Pathogenic organisms	None
Oil	Essentially free of visible oil
Turbidity value	25
pH	6.5-8.5
Phosphorus	1 milligram per liter
Unspecified toxic or corrosive substances	None at levels acutely toxic to humans or other animals or plant life, or directly damaging to real property.

*May be used as the control parameter in lieu of fecal coliforms if desired.

Statutory Authority: *MS s 115.03 subd 1*

7065.0140 MONTHLY REPORTS.

All persons operating sewage, industrial waste, or other waste disposal systems adjacent to or discharging to the waters covered by parts 7065.0100 to 7065.0160 shall submit every month a report to the Minnesota Pollution Control Agency on the operation of such disposal system, the effluent flow, and the characteristics and concentration of the effluent and receiving waters. Sufficient data on measurements, observations, sampling, and analyses and other pertinent information shall be furnished as may be required by the agency to reflect adequately the condition of the disposal system, the effluent, and the waters receiving the effluent.

Statutory Authority: *MS s 115.03 subd 1*

7065.0150 DETERMINATION OF COMPLIANCE.

In making tests or analyses of the sewage, industrial wastes, or other wastes to determine compliance with the standards, samples shall be collected in such manner and place, and of such type, number, and frequency as may be considered satisfactory by the agency. No allowance will be made for dilution of the effluents in the waters of the state into which they are discharged. The samples shall be preserved and analyzed in accordance with procedures given in Standard Methods for the Examination of Water and Waste Water, by the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation which is in effect on the effective date of these parts, or other methods acceptable to the agency.

For the purpose of determining compliance with these parts the characteristics of the sewage, industrial waste, or other wastes to be controlled shall be construed to be those which are attributable to changes resulting from the use or conveyance of surface water by an industry, or other person within the meaning of the statute.

Statutory Authority: *MS s 115.03 subd 1*

7065.0160 VARIANCE FROM STANDARDS.

In any case where, upon application of the responsible person or persons, the agency finds that by reason of exceptional circumstances the strict enforcement of any provision of these standards would cause undue hardship; that disposal of the sewage, industrial waste, or other waste is necessary for the public health, safety, or welfare; or that strict conformity with the standards would be unreasonable, impractical, or not feasible under the circumstances, the agency in its discretion may permit a variance therefrom upon such conditions as it may prescribe for the prevention, control, or abatement of pollution in harmony with the general purpose of these standards and the intent of the applicable state and national laws.

Statutory Authority: *MS s 115.03 subd 1*

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EFFLUENT STANDARDS FOR DISPOSAL SYSTEMS 7065.0230

ST. CROIX RIVER FROM WISCONSIN BORDER CROSSING TO TAYLORS FALLS

7065.0200 SCOPE.

The following standards of effluent quality and purity are hereby adopted and established for the waters of the St. Croix River from the Wisconsin border crossing (Section 31, Township 42 North, Range 15 West), to the Northern States Power Company Dam in Taylors Falls, approximately at the eastward extension of the boundary between sections 24 and 25 Shafer Township, Chisago County.

Statutory Authority: *MS s 115.03 subd 1*

7065.0210 DEFINITIONS.

The terms "person," "sewage," "industrial wastes," "other wastes," "treatment works," "disposal systems," and "waters of the state," as well as any other pertinent terms for which definitions are given in the water pollution control statutes, as used herein have the meanings ascribed to them in Minnesota Statutes, chapters 115 and 116. Other terms and abbreviations used herein not specifically defined in the law shall be construed in conformance with the context and professional usage.

Statutory Authority: *MS s 115.03 subd 1*

7065.0220 SEVERABILITY.

The provisions of this rule shall be severable and the invalidity of any lettered paragraph or any subparagraph or subdivision thereof shall not make void any other lettered paragraph, subparagraph, subdivision, or any other part thereof.

Statutory Authority: *MS s 115.03 subd 1*

7065.0230 STANDARDS OF EFFLUENT QUALITY AND PURITY.

Except as otherwise provided herein it is hereby established as a minimum requirement applicable to all persons operating or causing to be operated or in any way responsible for the operation of a disposal system which discharges sewage, industrial waste, or other wastes to the above delineated waters, or which may affect these waters, that all effluents shall be treated prior to discharge so as to meet any or all of the following limiting permissible concentrations:

Substance or Characteristic	Limiting Concentration
5-day biochemical oxygen demand	25 milligrams per liter
Total suspended solids	30 milligrams per liter
Fecal coliform group organisms	10 most probable number per 100 milliliters
Total coliform group organisms*	50 most probable number per 100 milliliters
Pathogenic organisms	None
Oil	Essentially free of visible oil
Turbidity value	10
pH	6.5-8.5
Unspecified toxic or corrosive substances	None at levels acutely toxic to humans or other animals or plant life, or directly damaging to real property.

*May be used as the control parameter in lieu of fecal coliforms if desired.

Statutory Authority: *MS s 115.03 subd 1*

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7065.0240 MONTHLY REPORTS.

All persons operating sewage, industrial waste, or other waste disposal systems adjacent to or discharging to the waters covered by parts 7065.0200 to 7065.0260 shall submit every month a report to the Minnesota Pollution Control Agency on the operation of such disposal system, the effluent flow, and the characteristics and concentration of the effluents and receiving waters. Sufficient data on measurements, observations, sampling, and analyses and other pertinent information shall be furnished and may be required by the agency to reflect adequately the condition of the disposal system, the effluent, and the waters receiving the effluent.

Statutory Authority: *MS s 115.03 subd 1*

7065.0250 DETERMINATION OF COMPLIANCE.

In making tests or analyses of the sewage, industrial wastes, or other wastes to determine compliance with the standards, samples shall be collected in such manner and place, and of such type, number, and frequency as may be considered satisfactory by the agency. No allowance will be made for dilution of the effluents in the waters of the state into which they are discharged. The samples shall be preserved and analyzed in accordance with procedures given in Standard Methods for the Examination of Water and Waste Water by the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation, which is in effect on the effective date of this regulation, or other methods acceptable to the agency.

Statutory Authority: *MS s 115.03 subd 1*

7065.0260 VARIANCE FROM STANDARDS.

In any case where, upon application of the responsible person or persons, the agency finds that by reason of exceptional circumstances the strict enforcement of any provision of these standards would cause undue hardship; that disposal of the sewage, industrial waste, or other waste is necessary for the public health, safety, or welfare; or that strict conformity with the standards would be unreasonable, impractical, or not feasible under the circumstances, the agency in its discretion may permit a variance therefrom upon such conditions as it may prescribe for the prevention, control, or abatement of pollution in harmony with the general purposes of these standards and the intent of the applicable state and national laws.

Statutory Authority: *MS s 115.03 subd 1*

VERMILLION RIVER

7065.0300 SCOPE.

The following standard of effluent quality and purity is hereby adopted and established for all of the intrastate waters of the Vermillion River in Town 113, 114, and 115 North, Range 15, 16, 17, 18, 19, 20, and 21 West, Goodhue, Dakota, and Scott Counties.

These effluent standard requirements shall be in addition to the effluent standards imposed in parts 7050.0100 to 7050.0220 or any other standards by other regulations applying to these waters, and shall supersede any less stringent effluent standards conflicting with provisions of parts 7065.0300 to 7065.0350.

Statutory Authority: *MS s 115.03 subd 1*

7065.0310 SEVERABILITY.

All provisions of this rule shall be severable and the invalidity of any lettered paragraph or any subparagraph or subdivision thereof shall not void any other lettered paragraph or subparagraph, subdivision, or any part thereof.

Statutory Authority: *MS s 115.03 subd 1*

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EFFLUENT STANDARDS FOR DISPOSAL SYSTEMS 7065.0340

7065.0320 DEFINITIONS.

The terms "sewage," "industrial wastes," "other wastes," "treatment works," "disposal systems," and "waters of the state," as well as any other terms for which definitions are given in the water pollution control statutes, as used herein have the meanings ascribed to them in Minnesota Statutes, sections 115.01 and 115.41 with the exception that disposal systems or treatment works operated under permit of the agency shall not be construed to be "waters of the state" as the term is used herein.

Other terms and abbreviations used herein which are not specifically defined in applicable federal or state law shall be construed in conformance with the context, and in relation to the applicable section of the statutes pertaining to the matter at hand, and current professional usage.

Statutory Authority: *MS s 115.03 subd 1*

7065.0330 STANDARDS OF EFFLUENT QUALITY AND PURITY.

It is herein established that the agency shall require the treatment of all discharges of sewage, industrial waste, or other waste effluent to meet the following effluent standards (see part 7050.0210, subpart 6 for additional effluent requirements):

Substance or Characteristic**	Limiting Concentration or Range
5-day Biochemical oxygen demand*	10 milligrams per liter
Ammonia as nitrogen	1 milligram per liter
Total suspended solids*	10 milligrams per liter
Dissolved oxygen	4 milligrams per liter

*The concentration specified in part 7050.0210, subpart 6 may be used in lieu thereof if the discharge of effluent is restricted to the spring flush or other high runoff periods when the stream flow rate above the discharge point is sufficiently greater than the effluent flow rate to insure that the applicable water quality standards are met during such discharge periods.

**If treatment works are designed and constructed to meet the specified limits given above for continuous discharge, at the discretion of the agency the operation of such works may allow for the effluent quality to vary between the limits specified above and part 7050.0210, subpart 6 provided the water quality standards of parts 7050.0100 to 7050.0220 and all other requirements of the agency and any permit issued by the agency in conjunction with the United States Environmental Protection agency are being met. Such variability of operation must be based on adequate monitoring of the treatment works and the effluent and receiving waters as specified by the agency.

Statutory Authority: *MS s 115.03 subd 1*

7065.0340 DETERMINATION OF COMPLIANCE.

Compliance will be based on effluent samples which are representative of the discharge. In making tests or analyses of the sewage, industrial wastes, or other wastes to determine compliance with the standards, samples shall be collected in such manner and place, and of such type, number, and frequency as may be considered satisfactory by the agency from the viewpoint of adequately reflecting the condition of the composition of the effluents. Reasonable allowance will be made for dilution of the effluents, which are in compliance with part 7065.0330, to meet established water quality standards following discharge into waters of the state. The agency by allowing dilution may consider the effect on all uses of the waters into which the effluents are discharged. The samples shall be preserved in accordance with procedures given in the 1971 edition of Standard Methods for the Examination of Water and Waste Water, by the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation, and any

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revisions or amendments thereto. Test procedures for the analysis of pollutants shall conform to regulations promulgated pursuant to the Federal Water Pollution Control Act, United States Code, title 33, section 1314 and Minnesota Statutes, section 115.03, subdivision 1(e)(7), as amended. The agency may accept or may develop other methods, procedures, guidelines, or criteria for measuring, analyzing, and collecting samples. The arithmetic mean for concentrations of 5-day biochemical oxygen demand, ammonia, dissolved oxygen, and total suspended solids shall not exceed the stated values in part 7065.0330 in a period of 30 consecutive days.

Statutory Authority: *MS s 115.03 subd 1*

7065.0350 VARIANCE FROM STANDARDS.

In any case where, upon application of the responsible person or persons, the agency finds that by reason of exceptional circumstances the strict enforcement of any provision of these standards would cause undue hardship; that disposal of the sewage, industrial waste, or other waste is necessary for the public health, safety, or welfare; and that strict conformity with the standards would be unreasonable, impractical, or not feasible under the circumstances, the agency in its discretion may grant a variance therefrom upon such conditions as it may prescribe for prevention, control, or abatement of pollution in harmony with the general purposes of these classifications and standards and the intent of the applicable state and federal laws. The United States Environmental Protection Agency will be advised of any permits which may be issued under this clause together with information as to the need therefor.

Statutory Authority: *MS s 115.03 subd 1*

SOUTH FORK OF ZUMBRO RIVER**7065.0400 SCOPE.**

The following standards of effluent quality and purity are hereby adopted and established for all of the intrastate waters of the South Fork of the Zumbro River from the dam at Silver Lake in Section 26, Township 107 North, Range 14 West in the city of Rochester to the beginning of Lake Zumbro in Section 23, Township 108 North, Range 14 West, Olmsted County.

These effluent standard requirements shall be in addition to the effluent standards imposed by parts 7050.0100 to 7050.0220 and any other standards imposed by other rules applying to these waters, and shall supersede any less stringent effluent standards conflicting with provisions of parts 7065.0400 to 7065.0450.

Statutory Authority: *MS s 115.03 subd 1*

7065.0410 SEVERABILITY.

All provisions of this rule shall be severable and the invalidity of any lettered paragraph or any subparagraph or subdivision thereof shall not void any other lettered paragraph or subparagraph, subdivision, or any part thereof.

Statutory Authority: *MS s 115.03 subd 1*

7065.0420 DEFINITIONS.

The terms "seepage," "industrial wastes," "other wastes," "treatment works," "disposal systems," and "waters of the state," as well as any other terms for which definitions are given in the water pollution control statutes, as used herein have the meanings ascribed to them in Minnesota Statutes, sections 115.01 and 115.41 with the exception that disposal systems or treatment works operated under permit of the agency shall not be construed to be "waters of the state" as the term is used herein. Other terms and abbreviations used herein which are not specifically defined in applicable federal or state law shall be construed in conformance with the context, and in relation to the applicable section of the

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statutes pertaining to the matter at hand and current professional usage.

Statutory Authority: *MS s 115.03 subd 1*

7065.0430 STANDARDS OF EFFLUENT QUALITY AND PURITY.

It is herein established that the agency shall require the treatment of all discharges of sewage, industrial waste, or other waste effluent to meet the following effluent standards (see part 7050.0210, subpart 6 for additional effluent requirements):

Substance or Characteristic**	Limiting Concentration or Range
5-Day Biochemical Oxygen Demand*	14 milligrams per liter
Total Suspended Solids*	20 milligrams per liter
Minimum Dissolved Oxygen*	5 milligrams per liter
Ammonia (N)*	1.6 milligrams per liter

*The concentration specified in part 7050.0210, subpart 6 may be used in lieu of the concentrations specified herein if the discharge of effluent is restricted to the spring flush or other high runoff periods when the stream flow rate above the discharge point is sufficiently greater than the effluent flow rate to insure that the applicable water quality standards are met during such discharge periods. The ammonia (N) and dissolved oxygen effluent standards are not applicable if a controlled form of discharge is utilized and the applicable water quality standards for ammonia (N) and dissolved oxygen, respectively, are not violated during the discharge period.

**If treatment works are designed and constructed to meet the specified limits given above for a continuous discharge, at the discretion of the agency the operation of such works may allow for the effluent quality to vary between the limits specified above and in part 7050.0210, subpart 6, provided the water quality standards and all other requirements of the agency and the United States Environmental Protection Agency are being met. Under this variability of treatment option the ammonia (N) effluent concentration could vary up to levels normally obtained by operation of secondary treatment facilities provided the applicable water quality standard for ammonia (N) is met. Such variability of operation must be based on adequate monitoring of the treatment works and the effluent and receiving waters as specified by the agency.

Statutory Authority: *MS s 115.03 subd 1*

7065.0440 DETERMINATION OF COMPLIANCE.

Compliance will be based on effluent samples which are representative of the discharge. In making tests or analyses of the sewage, industrial wastes, or other wastes to determine compliance with the standards, samples shall be collected in such manner and place, and shall be of such type, number, and frequency as may be considered satisfactory by the agency from the viewpoint of adequately reflecting the condition of the composition of the effluents. Reasonable allowance will be made for dilution of the effluents, which are in compliance with part 7065.0430, to meet established water quality standards following discharge into waters of the state. The agency by allowing dilution may consider the effect on all uses of the waters into which the effluents are discharged. The samples shall be preserved in accordance with procedures given in the fourteenth edition of Standard Methods for the Examination of Water and Waste Water, by the American Public Health Association, American Water Works Association, and the Water Pollution Control Federation, dated 1976. Test procedures for the analysis of pollutants shall conform to rules and regulations promulgated pursuant to section 304 of the Federal Water Pollution Control Act of 1972, United States Code, title 33, section 1314 (1972) and Minnesota Statutes, section 115.03, subdivision 1(e)(7). The arithmetic mean for concentrations of five-day biochemical oxygen demand, total suspended solids,

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and ammonia (N) shall not exceed the stated values in part 7065.0430 in a period of 30 consecutive days. The value of dissolved oxygen shall never be less than five milligrams per liter.

Statutory Authority: *MS s 115.03 subd 1*

7065.0450 VARIANCE FROM STANDARDS.

Any person may apply for a variance from any requirements of these parts. Such variance shall be applied for and acted upon by the agency in accordance with Minnesota Statutes, section 116.07, subdivision 5 and other applicable statutes and rules.

Statutory Authority: *MS s 115.03 subd 1*