CHAPTER 7420 DEPARTMENT OF PUBLIC SAFETY STATE PATROL DIVISION EMERGENCY VEHICLE SIRENS

7420,0200 PURPOSE AND SCOPE.

7420.0300 APPROVED SIRENS.

7420.0400 APPROVAL OF OTHER SIRENS.

TABLES, FORMS, AND EXHIBITS
7420.9910 TABLE 1: MECHANICAL SIRENS.
7420.9920 TABLE 2: ELECTRONIC SIRENS.
7420.9930 TABLE 3: CONDITIONALLY

APPROVED SIRENS.

7420.0200 PURPOSE AND SCOPE.

Subpart 1. Purpose. The purpose of parts 7420.0200 to 7420.9930 is to carry out the mandate of the legislature and to effectuate that mandate as set forth in Minnesota Statutes 1957, section 169.68.

Subp. 2. Scope. The scope of parts 7420.0200 to 7420.9930 is confined within the framework of and consistent with Minnesota Statutes 1957, section 169.68.

Statutory Authority: MS s 169.68

7420.0300 APPROVED SIRENS.

- Subpart 1. Type of sirens. The following types of sirens are established:
- A. Type I: high performance siren approved for outside mounting or mounting behind a grill or under the hood of an emergency vehicle.
- Type II: medium performance siren approved for outside mounting only.
- Subp. 2. Fully approved sirens. The sirens listed in Table 1 and Table 2 are approved as to type. See Table 1, part 7420.9910, for mechanical sirens. See Table 2, part 7420.9920 for electronic sirens.
- Subp. 3. Conditionally approved sirens. Any siren listed in Table 3, part 7420.9930, which is in good condition, which was installed on an authorized emergency vehicle prior to the date of adoption of parts 7420.0200 to 7420.9930, and which is currently in use on that vehicle is approved for use on such vehicle. Such sirens (except engine-driven sirens) must be mounted on the outside of the vehicle as required herein for Type II sirens. Such sirens shall not otherwise be installed on any other authorized emergency vehicle unless it is submitted for approval and is found to meet the test requirements set forth in part 7420.0400, subpart 8.

Statutory Authority: MS s 169.68

7420.0400 APPROVAL OF OTHER SIRENS.

Subpart 1. Unlisted sirens. Sirens not listed in parts 7420.0200 to 7420.9930 will be considered for approval as follows.

- Subp. 2. Letter of application. A letter of application, including specifications or a description of the siren, shall be submitted to the Commissioner of Public Safety, Transportation Building, Saint Paul, Minnesota 55155. Applications for electronic sirens shall list the speaker manufacturer and manufacturer's model number for horn and driver unit.
- Subp. 3. Samples. One siren of each type or model for which approval is desired, complete with cable, switch, and instruction sheets, shall be delivered, freight or express prepaid, to the address in subpart 2. The siren will be returned by railway express collect after the tests have been completed.

7420.0400 EMERGENCY VEHICLE SIRENS

- Subp. 4. Identification. The siren shall be marked with the trademark or name and the model designation. Such markings shall be readily visible and legible from the outside of the siren when it is properly mounted on the vehicle.
- Subp. 5. Waiver of sample. Submittal of a photostatic copy of a test report from the California Highway Patrol, or a test report from an independent testing laboratory approved by the department, showing compliance with the minimum sound level output requirements of subpart 8, may be considered in lieu of a sample.
- Subp. 6. Fee. A check payable to the commissioner of public safety in the amount of \$25 shall be submitted for each siren to be tested.
- Subp. 7. Supplements. Supplements to Table 1 and Table 2, parts 7420.9910 and 7420.9920, respectively, will be issued periodically listing sirens approved under this subpart.
- Subp. 8. Test requirements. Sound level measuring equipment conforming to standards of the American Standards Association will be used to determine the sound level output of the siren. The siren will be mounted in the open, away from large reflecting objects, with due regard given to wind and background noises. The minimum sound level output measured at 100 feet from the siren shall be as follows:

A. Type I

(1) In the axis (2) At 45 degrees from the axis (3) At 90 degrees from the axis	95 Decibels 90 Decibels 85 Decibels
B. Type II	
(1) In the onic	95 Daoibala

(1)	In the axis	85 Decibels
(2)	At 45 degrees from the axis	80 Decibels
(3)	At 90 degrees from the axis	80 Decibels

The fundamental frequency should be in the range of 800 to 1000 cycles per second.

Statutory Authority: MS s 169.68

TABLES, FORMS, AND EXHIBITS

7420.9910 TABLE 1: MECHANICAL SIRENS.

Manufacturer	Model-Markings	Туре
American Fire Equipment Co.	DICTATOR	
11 Mission Street	D8	I
San Francisco 5, California	D8B	I
,	D8BH	I
	D8H	I
B & M Siren Manufacturing Co.	B & M	
763 East Pico Boulevard	C-B & M-8	I
Los Angeles 21, California	CS8	I
	CS8B	I
(Motor numbers M-1	E-B & M-8 Highway Special	I
through M-9 may be	Motorcycle Rear Wheel	
included with	Drive	H
model number on B & M	SC8	I
sirens, depending on	SC8B	I

171111111	WHITEBOTH ROLLS 1703		
6399	EMERGENCY VEHICLE SIRENS 7420.9910		
type of motor used and year of manufacture.)	S8 I S8B I Friction Drive 8FA (8" diameter only) I		
Cam Manufacturing Co. Ross, California	CAM 3 I 3B I 4 I 70 I 104 I		
W.S. Darley & Company 2810 Washington Boulevard Chicago 12, Illinois	CHAMPION C389 II F591 II		
Federal Laboratories, Inc. 185 - 41st Street Pittsburgh, Pennsylvania	FEDERAL LABORATORIES 35A II 35B III 53A I I 53B III 53D I I 54 III 85A III 85B III 85C III 85C III 85E III 85E III 86A III 86B III 100A I I 100B III 100C I I 100D III 100E I I 101A III 101B III 102A I I 102B I I 103A I I 103B I I		
Federal Sign & Signal Corp. or Federal Enterprises, Inc. 8700 South State Street	FEDERAL SIGN AND SIGNAL 28 I 28H I 57FD I		
Chicago, Illinois (Federal sirens equipped with a red light on the rear of the housing or having the suffix "	57FS I 5876A II 5876B II 58C4A I R" 58C4B I		

housing or having the suffix "R"

added to the approved model

number are also approved.)

58CD

58CS

58FD

I I

7420.9910 EMERGENCY VEHICLE SIRENS		6400
	58FS 59FS	I I
	60FS	Ţ
	66G 66GH	I
	66L	ΪΙ
	67	ΪΪ
	76	II
	76A	II
	76B 77GA	II -
	77GA 77GB	II
	77L	II
	77LA	II
	77LB	II
	78A	II
	78B C4	II I
	C4A	Ī
	C4B	Ī
	C4BB	I
	C5	Ī
	C5B C5GA	I I
	C5GB	Ī
	C5GBB	Ī
	C5LA	II
	C5LB C6A	II II
	C6A C6B	II
	EG	II
	EGH	II
	EP	II
	EPH	II I
	Q1A Q1B	I
	Q2A	Î
	Q2B	I
	WG	II
	WGH WL	II II
	WLH	ΪΪ
	XG	II
	XL	II
	Y YH	II II
	In	11
Harley-Davidson Motorcycle Co.	HARLEY-DAVIDSON	
Milwaukee 1, Wisconsin	58	II
	Motorcycle Rear Wheel	11
	Drive	II
Hedberg Manufacturing Co.	HEDBERG	
321 West Reed Street	1WSLR	II
San Jose, California	2WSLR	II
	8RLR	I

EMERGENCY VEHICLE SIRENS 7420.9920

	Engine Drive Motorcycle Rear Wheel Drive	I II
Mars Signal Light Co. 4322 West Chicago Avenue Chicago 51, Illinois	MARS G-1G G-1GB	I I
North American Signal Co. P.O. Box 216 Wilmette, Illinois	SIREN-MASTER 1136	I
(Formerly Manufactured By The Pyle-National Co.)	PYLE 710 720	II II
The Seagrave Corporation Columbus 7, Ohio	SEAGRAVE Twin Blast	I
The Sireno Company, Inc. 214 William Street New York 38, New York	SIRENO 7 10 C-52 ED-1 ED-10 F-52 J-1-8 M-1 R-5 R-5-R R-6 R-6-R RJ-1-8 RV-9 SJ-8 SV-9 V-9	I I I I I I I I I I I I I I I I I I I
Sterling Siren Fire Alarm Co., Inc. Rochester 8, New York	STERLING 20 Freerolling 20 Jr. Sirenlite 30 Freerolling 30 Sirenlite	II II I

Statutory Authority: MS s 169.68

7420.9920 TABLE 2: ELECTRONIC SIRENS.

Manufacturer	Model-Markings	Speaker Markings	Туре
Associated	SIROVOX		
Designers	452A	Not marked	II
223 West	453	MODEL 1 B 8	II
Second Street	MK II 657	SIROVOX MK II 657	II
Los Angeles 12,	MK IV 659	SIROVOX RE-30	I

6402

7420,9920 EMERGENCY VEHICLE SIRENS

California	MK IV 659	SIROVOX RE-50	I
Dazl-Lite Products or Dominator Corp. Kansas City, Missouri	DOMINATOR ES50	DOMINATOR S-50F	I
Federal Sign & Signal Corp. or Federal Enterprises Inc. 8700 South State Street Chicago, Illinois	FEDERAL PA-1 PA-1 PA-1 PA-1 PA-1 PA-2 PA-2 PA-2 PA-2 PA-2 PA-2	FEDERAL PDCJ FEDERAL SA-24 FEDERAL CP24 FEDERAL CJ-24 UNIVERSAL MM-2L FEDERAL PDCJ FEDERAL SA-24 FEDERAL CP-24 FEDERAL CJ-24 UNIVERSAL MM-2L	III III III III III III III III III II
Fyr-Fyter Co. 132-140 Hawthorne St. San Francisco, California or Electronic Engineering Ent.	PENETRATOR 12PT30 12PT30 12PT30 12PT50	12SP30 A9SP30 A14SP30 A9SP30	II I I
General Electric Co. Nela Park Cleveland 12, Ohio	G. E. 4EZ6A1	UNIVERSITY MM2L	II
Selectronics, Inc. 1600 Adams St. St. Helena, California	SELECTRONIC 17A 17B 25S 625S	SELECTRONIC 17A SELECTRONIC 17B UNIVERSITY MA-25 UNIVERSITY MA-25	II II I
Winsby- Fleming Co. 4802 East 14th St. Oakland 1, California	WINSBY-FLEMING 17A 17B	WINSBY-FLEMING 17A WINSBT-FLEMING 17B	

Statutory Authority: MS s 169.68

EMERGENCY VEHICLE SIRENS 7420.9930

7420.9930 TABLE 3: CONDITIONALLY APPROVED SIRENS.

Manufacturer	Model-Markings
Art Burnside Company	ABCO B
Bell Machinery & Industrial Supplies	BELL-EVANS Freewheeling
B&M Siren & Manufacturing	B&M 6-F-A Friction Drive
Cam Manufacturing Co.	CAM 2 F Freewheeling
C.A.M. Siren & Mfg. Co.	CAM 2 3 4 DICTATOR D8P DICTATOR JUNIOR JD6B JD6BH JD6P Automobile Friction Motorcycle Friction
Capital Signal Co.	CAP 2 3
Dozier Manufacturing	DYNO-O-SIREN U.L. Friction Drive
Duncan Siren Co.	DUNCAN 1 2 3 4
E.D. Bullard Co.	BULLARD 1/4 F.W. 1/2 F.W. 1/4 H.A. 1/2 H.A. 1/4 H.D. Motorcycle Friction SIRACODE D8A
Federal Electric Co.	FEDERAL

7420.9930 EMERGENCY VEHICLE SIRENS

	66 77 78 C2 C3 C6 E W
Federal Laboratories, Inc.	FEDERAL LABORATORIES 35 45 48 53 85 100 101
Glen W. Nagle	NAGLE N-5
H.O.R. Company, Inc.	H.O.R. A-1 Belt Driven A-2 Belt Driven Si-Rex Commander, Senior
J.N. Hedberg	HEDBERG I Long Roll 2 Long Roll 3 Long Roll 3R Long Roll 3 1/2R Long Roll 1 Semi-Long Roll 2 Semi-Long Roll 1 Friction 2 Friction B1 Motorcycle Friction Rear B2 Motorcycle Friction Front F1 Motorcycle Friction Front F2 Motorcycle Friction Front F3 Motorcycle Friction Front
The Seagrave Corporation	SEAGRAVE D Rite-O-Way
The Sireno Company, Inc. (Letter "A" with Models M, R and ED indicates Freerolling.)	SIRENO 11 51 ED, Municipal Only ED-1, Municipal Only F-1 Motorcycle Friction FH Motorcycle Friction M M-1 M-4

6405

EMERGENCY VEHICLE SIRENS 7420.9930

M-5 R2A

Sterling Siren Fire Alarm Co., Inc.

STERLING

12

B Motorcycle Electric

J Motorcycle Front Wheel

Drive

S Freerolling

Statutory Authority: MS s 169.68