

1 Board of Electricity

2

3 Adopted Permanent Rules Relating to Approval of Electrical  
4 Equipment

5

6 Rules as Adopted

7 3800.3619 DEFINITIONS.

8 Subpart 1. **Scope.** For the purposes of part 3800.3620, the  
9 terms defined in this part have the meanings given them.

10 Subp. 2. **Labeled.** "Labeled" has the meaning given in  
11 Article 100 of the National Electrical Code.

12 Subp. 3. **Listed.** "Listed" has the meaning given in  
13 Article 100 of the National Electrical Code.

14 Subp. 4. **National Electrical Code.** "National Electrical  
15 Code" means the National Electrical Code as incorporated by  
16 reference in part 1315.0200.

17 Subp. 5. **Testing laboratory.** "Testing laboratory" means  
18 an electrical testing laboratory that has provided a written  
19 report to the board showing that it has the facilities listed in  
20 Section 90-6 of the National Electrical Code or that is  
21 accredited under the federal Occupational Safety and Health  
22 Administration Nationally Recognized Testing Laboratory program.

23 3800.3620 APPROVAL OF ELECTRICAL EQUIPMENT.

24 Subpart 1. **National standards.** Except as otherwise  
25 provided in subpart 2 or 3, as a condition for approval under  
26 Minnesota Statutes, section 326.243, and Section 110-2 of the  
27 National Electrical Code, all electrical equipment, including  
28 material, fittings, devices, apparatus, fixtures, appliances,  
29 and utilization equipment, used as part of, or in connection  
30 with, an electrical installation shall be listed and labeled by  
31 a testing laboratory.

32 Subp. 2. **Alternatives to listing and labeling.** With the  
33 exception of electrical equipment of types specifically required  
34 to be listed by the National Electrical Code, the board shall  
35 accept one of the applicable methods described in item A or B as

1 an alternative to listing and labeling.

2           A. Evaluation by a testing laboratory or by a  
3 registered or licensed electrical engineer who has no financial  
4 or other interest in the manufacture or sale of the equipment,  
5 provided that any deficiencies identified by the evaluation are  
6 corrected and the equipment complies with the listed  
7 requirements. A written report of the evaluation shall be  
8 submitted directly to the board, and shall state the standards  
9 that were applied in the evaluation. Evaluation reports by an  
10 electrical engineer acting independently of a testing laboratory  
11 shall also include an item-by-item comparison of the equipment  
12 with the requirements to be listed. If the board finds that the  
13 evaluation or evaluation report is incomplete or inaccurate, it  
14 retains the right to require further evidence of compliance or  
15 to reject the equipment.

16           Evaluations conducted according to the procedures in this  
17 item shall be considered evidence of compliance of all identical  
18 equipment produced by that manufacturer for a period of one year  
19 from the time the evaluation was completed, or until the  
20 equipment has been listed, whichever is less, provided that the  
21 manufacturer has applied for listing of the equipment, or  
22 produces fewer than 100 such units per year. Where additional  
23 identical equipment will be produced, the manufacturer shall  
24 provide the board with a written statement giving the equipment  
25 model number and agreeing that all subsequent equipment will be  
26 identical to that which was evaluated and, where the equipment  
27 has not been submitted for listing, shall also provide a written  
28 report to the board 12 months from the date of the evaluation  
29 report which lists the serial numbers of the equipment installed  
30 in Minnesota over the preceding 12 months.

31           Where deficiencies are identified by the initial evaluation  
32 report, those deficiencies shall be corrected for all subsequent  
33 units, the changes shall be verified by the person who performed  
34 the initial evaluation, and an amended report shall be submitted  
35 to the board. If the manufacturer deviates from the  
36 construction established by the evaluation report, the equipment

1 shall be reevaluated and any noncomplying equipment that was  
2 sold brought into compliance.

3       Where the evidence of compliance is an evaluation according  
4 to this item, the manufacturer shall affix a durable permanent  
5 label to the equipment in a readily visible location, which  
6 states: "This equipment is identical to equipment that was  
7 evaluated by (name), and found to be in compliance with the  
8 requirements to be listed. A copy of the evaluation report was  
9 filed with the Minnesota State Board of Electricity on (date)."

10       B. Where procedures acceptable to the testing  
11 laboratory are followed, a manufacturer of unlisted equipment  
12 shall be permitted to submit the equipment to another  
13 manufacturer of similar listed equipment for evaluation,  
14 correction of noncomplying construction, and labeling.

15       Subp. 3. **Equipment exempt from listing requirements.**

16 Equipment described in items A to C is exempt from the  
17 requirements in subparts 1 and 2.

18       A. Industrial machinery as defined by Section 670-2  
19 of the National Electrical Code is not required to be listed  
20 where all electrical components of the equipment, including  
21 electrical control panels and solid-state motor controls, are in  
22 compliance with subpart 1 or 2, and all of the machine  
23 electrical wiring is in compliance with the National Electrical  
24 Code.

25       B. Electrical control equipment constructed according  
26 to the listed requirements, enclosed in a listed cabinet or box  
27 suitable for the environment in which it is installed, and  
28 electrically connected only to circuits supplied from listed  
29 Class 2, logic level, communications, or other circuits with  
30 maximum open circuit voltage of 30 volts rms AC, or DC, and  
31 overcurrent protection of two amperes or less, or to any  
32 combination of such circuits, is not required to be listed,  
33 provided that any printed wiring boards shall be of listed  
34 material.

35       C. Electrical control equipment constructed according  
36 to the listed requirements and enclosed in a listed cabinet or

1 box suitable for the environment in which it is located, where  
2 the enclosed equipment consists of four or fewer listed  
3 components, other than wires, cables, cords, terminal  
4 assemblies, nonelectrical components, and those covered under  
5 item B, provided that the devices are not electrically connected  
6 to circuits on a printed wiring board other than those circuits  
7 covered under item B, is not required to be listed.