

CHAPTER 222
ELECTRICAL AND ELEVATOR CODES

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SUBCHAPTER 1
ELECTRICAL INSTALLATIONS

222-01. Adoption of State Code. Except as otherwise provided in this chapter, the city of Milwaukee adopts chs. SPS 305, SPS 316 and SPS 318, Wis. Adm. Code, as amended, as part of this code.

222-02. Scope. The object and purpose of this chapter is to safeguard persons and property from hazards arising from the use of electrical energy by establishing minimum standards for the installation and maintenance of electrical systems. The standards do not constitute a specification for electrical installations and electrical equipment generally.

222-03. Definitions. In this chapter:

1. STATE-LICENSED ELECTRICIAN means a holder of a license issued by the state of Wisconsin as a licensed electrician.

2. STATE-LICENSED ELECTRICAL CONTRACTOR means a holder of a license issued by the state of Wisconsin as a licensed electrical contractor.

3. STATE-LICENSED ELEVATOR CONTRACTOR means a holder of a license issued by the state of Wisconsin as a licensed elevator contractor.

4. STATE-LICENSED ELEVATOR MECHANIC means a holder of a license issued by the state of Wisconsin as a licensed elevator mechanic.

222-1. Regulations. 1. WHEN APPLICABLE.

a. Except as regulated in sub. 2, the regulations of this chapter shall apply to the supply of electricity and to all sales, rentals, leases, uses, installations, alterations, repairs, removals, renewals, replacements, disturbances, connections, disconnections and maintenance of all electrical materials, wiring, conductors, fittings, devices, appliances, fixtures, signs, and apparatus, or parts thereof, or attachments therefor, hereafter referred to as electrical equipment, which are intended to be, or are, within, on, under, over, or near all buildings, structures, equipment and premises.

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b. No person other than a state-licensed electrical contractor or person who is exempt from licensing under s. 101.862(4)(am) to (q), Wis. Stats., may install, alter, renew, replace or connect equipment regulated by his or her respective license.

c. The exemption for licensing under s. 101.862(4)(a) shall be limited to the replacement for an existing switch, receptacle or luminaire if the replacement switch, receptacle or luminaire has a rating of not more than 20 amperes.

2. EXCEPTIONS. The electrical license and permit regulations of this chapter shall not apply to the following:

a. Any work associated with:

a-1. The repair of plug-connected electrical appliances or devices.

a-2. Permanently connected electrical appliances or devices which have been electrically and mechanically disconnected and separated from all sources of electrical supply by an electrical licensee. The opening of switches or the blowing or removal of fuses shall not be considered as electrical or mechanical disconnection or separation.

b. The installation or replacement of approved fuses which are not oversize for the circuit involved.

222-2. Enforcement. 1. The commissioner or his duly authorized representative shall enforce this chapter.

2. The commissioner in special cases may waive any of the regulations of this chapter, the enforcement of which in the commissioner's judgment would create an unsafe or dangerous condition.

3. The police and fire departments shall assist the commissioner or any of his duly authorized representatives in the enforcement of this chapter, and permit and allow the commissioner or his representatives inside fire and police lines.

4. No person may impersonate the commissioner or his duly authorized representative to enforce or try to enforce any of the regulations in this chapter.

5. Every person who furnishes electrical current to, or who owns, sells, leases, or lets for hire, uses, designs, installs, repairs, operates, maintains, or grants possession of any electrical equipment or materials, wiring, or apparatus in the city shall comply with the regulations of this chapter.

222-3. Interpretation. Pursuant to s. 200-33 the commissioner shall have the authority to render interpretations of the regulations of this chapter.

222-4. Right of Entry. 1. Pursuant to s. 200-12, the commissioner or his duly authorized representative may enter all buildings and premises and all parts thereof, except occupied dwellings, in order to make an inspection, reinspection, observation, examination, or test of the electrical equipment or wiring contained therein or thereon to enforce the regulations of this chapter.

2. No person may refuse lawful entry to the commissioner or his duly authorized representative, or interfere with, harass, abuse, obstruct or cause delay in the performance of their duties. The commissioner or his duly authorized representatives may order the removal of any and all obstructions including lath, plaster, lumber, boards and partitions.

222-5. Inspections. Upon the completion of any installation, alteration or replacement of electrical equipment which requires a permit, it shall be the duty of the licensee making the installation, alteration or replacement to notify the commissioner, who may inspect the installation, alteration or replacement as soon thereafter as practicable. When any electrical equipment requiring a permit is to be concealed by the permanent placement of parts of the building, the licensee installing the electrical equipment shall notify the commissioner to that effect, and such equipment shall not be concealed by the person installing such parts of the building until after it has been inspected and approved by the commissioner. On installations where the concealment of electrical equipment proceeds continuously, the licensee installing the electrical equipment shall give the commissioner due notice and inspection shall be made periodically during the progress of the work.

222-6. City Not Liable. This chapter shall not be construed to relieve from or lessen the responsibility or liability of any person supplying electricity to, or selling, or renting, or leasing, owning, using, operating, controlling, installing, altering, repairing, removing, replacing, disturbing, connecting, disconnecting, or maintaining any electrical equipment, for damages to persons or property caused by any defect therein or

therefrom; nor shall the city be held as assuming any such responsibility or liability by reason of the issuance or revocation of any license or permit, or the inspection or reinspection authorized by this chapter, or by reason of the approval or disapproval of any electrical equipment, sales, rentals, drawings, plans, specifications, materials, samples, test reports, literature, information or schedules authorized in this chapter. Nor shall the city be held liable for any damages resulting from the enforcement of this chapter.

222-7. Commissioner Not Liable. In all cases where any action is taken by the commissioner to enforce the regulations of this chapter, such action shall be considered as done in the name of and on behalf of the city. The commissioner, in so acting for the city, shall not be judged as liable for any damage that may accrue to persons or property as a result of any such action committed in the discharge of the commissioner's duties. Any lawsuit or action brought against the commissioner relating to the commissioner's enforcement of the regulations of this chapter shall be defended by the city attorney until final termination of the proceedings contained therein.

222-8. Complaints. Complaints on improper or defective electrical equipment shall be investigated and action shall be taken as regulated in ss. 222-19 and 222-20. Where complaints disclose inadequacy of electrical equipment, the commissioner shall notify the owner of the premises, in writing, to that effect.

222-9. Information. 1. All requests for information pertaining to and involving an interpretation of this chapter shall be submitted in detail to the commissioner.

2. The commissioner shall not design or lay out any electrical installation or act in the capacity of a consulting electrical engineer.

222-10. Records. The commissioner shall keep a record of all electrical permits and other electrical matters as regulated in s. 222-13.

222-13. Permits. 1. PERMIT REQUIRED. Except as regulated in s. 222-1-2 or exempted in s. 200-24-1.5, no electrical equipment shall be installed, altered, renewed, replaced or connected without first procuring a permit.

2. APPLICATIONS FOR PERMIT.

a. Any state-licensed electrical contractor, state-licensed elevator contractor or person who is exempt from licensing under s. 101.862(4)(am) to (q), Wis. Stats., desiring a permit as required by this chapter shall file with the commissioner an application for a permit in writing on a form furnished for this purpose. In addition:

a-1. The department may allow any state-licensed electrical contractor to obtain a permit from within the scope of the contractor's license class. A state-licensed electrical contractor shall provide a copy of his or her state electrical contractor license and a copy of the license of the master electrician who is taking full responsibility for all work to be carried out under the permit. The applicant shall provide all necessary contact information on a form that is provided by the department. The permit application shall be signed by the supervising master electrician of the applicant's business.

a-2. The department may allow any state-licensed elevator contractor to obtain a permit from within the scope of the contractor's license class. A state-licensed elevator contractor shall provide a copy of his or her state elevator contractor license and a copy of the license of the elevator mechanic who is taking full responsibility for all work to be carried out under the permit. The applicant shall provide all necessary contact information on a form that is provided by the department. The permit application shall be signed by the supervising elevator mechanic of the applicant's business.

a-3. The following shall be exempt from licensing under s. 101.862(4), Wis. Stats.

a-3-a. Low-voltage Fire Alarm Permit. The commissioner shall review and approve or disapprove the permit application. If the permit application is approved, the commissioner shall issue a Type LF low-voltage (100 volts or less) fire alarm permit, permitting the applicant to install, alter, repair, remove, renew, replace, disturb, connect, disconnect or maintain any low-voltage electrical equipment associated with a fire alarm system and accept payment for any of these activities. The applicant shall provide all necessary contact information on a form that is provided by the department of neighborhood services.

a-3-b. Low-voltage Burglar and Security Alarm Permit. The commissioner shall review and approve or disapprove the permit application. If the permit application is approved, the

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commissioner shall issue a Type LB low-voltage (100 volts or less) burglar and security alarm permit, permitting the applicant to install, alter, repair, remove, renew, replace, disturb, connect, disconnect or maintain any low-voltage electrical equipment associated with a burglar and security alarm system and accept payment for any of these activities. The applicant shall provide all necessary contact information on a form that is provided by the department.

a-3-c. Other Low-voltage Permit. The commissioner shall review and approve or disapprove the permit application. If the permit application is approved, the commissioner shall issue a Type LV low-voltage (100 volts or less) permit, permitting the applicant to install, alter, repair, remove, renew, replace, disturb, connect, disconnect or maintain any low-voltage electrical equipment associated with any system other than those described in subpars. a and b and accept payment for any of these activities. The applicant shall provide all necessary contact information on a form that is provided by the department.

a-3-d. Other Exemptions. The commissioner shall review and approve or disapprove the permit application. If the permit application is approved, the commissioner shall issue a permit, permitting the applicant to install, alter, repair, remove, renew, replace, disturb, connect, disconnect or maintain any low-voltage electrical equipment as regulated in s. 101.862(4), Wis. Stats. The applicant shall provide all necessary contact information on a form that is provided by the department.

b. A permit application shall describe and enumerate the electrical equipment to be installed and shall give other reasonable information as may be required by the commissioner.

c. At the time of an issuance of a permit, the commissioner may require the manufacturer, owner, installer or user of electrical equipment to submit plans (drawings), data, and specifications, schedules or literature, information, materials, samples or tests as may be necessary to determine the fitness of equipment for safe installation and use.

d. The approval of general building plans and specifications by the commissioner shall not be considered as including electrical plans or specifications or electrical equipment.

3. ISSUANCE OF PERMIT. a. If upon examination it is found that the information on the application is complete, the commissioner shall issue a permit; provided that the licensee, or

applicant exempt from licensing under s. 222-13-2-a-3, agrees and expressly states that he or she is fully capable, and in possession of knowledge and ability to design, lay out, install, alter or replace the work designated in the application in accordance with this chapter, and with all other laws and ordinances pertinent thereto, and will install electrical equipment as described in the application for permit in a safe, legal and workmanlike manner.

b. The issuance of any permit or the serving of any notice or order shall not preclude compliance with all ordinances or other laws relating to occupancy and use, construction (s. 200-26) or zoning (ch. 295).

c. No other electrical work shall be done except work as described in the application for permit.

6. WORK WITHOUT PERMIT. When any work is begun on the installation, alteration, or replacement of any electrical equipment without first obtaining a permit therefor, except as provided in s. 222-1-2 or exempted in s. 200-24-1.5, the commissioner shall have the power and authority to disconnect or order the disconnection immediately of any such equipment and to stop such work until a permit has been procured.

7. NO PERMITS TO VIOLATORS.

a. Whenever any electrical installation occurs contrary to the regulations of this chapter, the commissioner shall issue a notice to remedy the defective work to the violator at his or her last known address. Failure to comply with the notice shall be deemed sufficient reason for withholding future permits, in addition to other penalties provided in this code.

b. The following shall also be deemed sufficient reasons for withholding future permits:

b-1. An unreasonable delay in the performance of electrical work occurs after issuance of a permit.

b-2. An electrical contractor fails to promptly respond to official communication from the commissioner.

b-3. Information provided on a contractor's contact form, state license or certification is no longer valid and the contractor failed to notify the department by providing an updated copy of state license or certification or updated contact form.

8. EXPIRATION OF PERMITS. If any electrical work for which a permit has been issued is not started within 6 months from the date of issuance of the permit, or if any electrical work for which a permit has been issued ceases for more

than 6 months, such permit shall lapse and be void, and all permit fees shall remain the property of the city. No electrical work shall begin or be resumed until a new electrical permit is obtained and the fees prescribed in s. 200-33 are paid therefor.

222-15. Installation Standards. 1. The commissioner of neighborhood services may grant special permission, for a limited period of time, for the installation or use of temporary electrical wiring and equipment which do not conform with the regulations of this chapter. The electrical contractor installing such wiring or equipment shall be directly and legally responsible and accountable for the safe condition of the installation at all times, and its complete removal at the end of the fixed temporary period, as set forth by the commissioner of neighborhood services or any time sooner when ordered by the commissioner of neighborhood services. Carnivals, circuses, theatrical acts, and exhibitions and all places of temporary outdoor assembly are included in the provisions of this subsection, and all electrical wiring and equipment associated therewith shall be installed, maintained, and operated in a safe and workmanlike manner. All such electric wiring and equipment shall be isolated from the public by proper elevation and guarding and all electric fuses and switches shall be installed in approved enclosures. Cable laid on the ground in areas traversed by the public shall be buried in trenches or protected by approved covers.

2. Existing electrical equipment which does not conform to the regulations of this chapter, but which was lawfully installed prior to the passage of this chapter, may be continued in use if maintained in a safe condition.

3. When any additions, alterations, or renewals of existing electrical equipment lawfully installed prior to the adoption of this chapter are made, such portion of the installation which is added, altered or renewed shall conform to the regulations of this chapter.

4. Any change in the occupancy or use of an existing building, structure or premises shall not require a change in the existing electric equipment, provided such change does not create an electric hazard.

222-16. Connections to Installations. It shall be unlawful for any person to make any connection from any source or supply of electricity, or to supply electricity to any electrical equipment for

which a permit is required, or which has been disconnected or ordered disconnected by the commissioner, until a certificate of authorization has been issued by the commissioner authorizing the connection and use of such equipment.

222-17. Approval of Electrical Equipment. 1. It shall be unlawful for any person to sell, install or use any type or kind of electrical equipment which has not been approved.

2. The sale, rental, installation or repair of electrical equipment shall by implication warrant that the manufacturer, seller, installer, repairer or person receiving payment for rental therefor, guarantees that such electrical equipment is of merchantable quality and not defective to the extent that it will be dangerous to persons or property when put to the use for which it was designed.

3. It shall be the policy of the commissioner of neighborhood services to approve, subject to the regulations of this chapter, any type or kind of electrical equipment which has been approved by the National Bureau of Standards or any nationally recognized testing laboratory or the state of Wisconsin.

222-18. Installation of Electrical Equipment. Except as otherwise regulated in this chapter, all electrical equipment which has been expressly made for electrical purposes shall be installed or used in the exact manner and for the exact purpose indicated by the manufacturer's instruction, markings or labels. Old or secondhand electrical equipment shall not be installed unless such equipment is in a safe condition and approved. Approved electrical equipment and the original manufacturer's ratings, markings or labels thereon shall not be changed or altered in any manner, except that normal replacements and repairs may be made to such equipment if the replacements and repairs do not change the original characteristics or design.

222-19. Unsafe or Illegal Electrical Equipment.

1. When the commissioner finds any electrical equipment to be unsafe or dangerous to persons or property, the person owning or using such electrical equipment may be issued an order in writing by the commissioner to remove or cause to be removed or to make any changes or repairs as determined by the commissioner so as to restore the electrical equipment to a safe condition. Failure to comply with the order within

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the time specified in such notice shall be sufficient cause for the commissioner to disconnect or order the removal of, or order the discontinuance of electrical service to the electrical equipment, or to cause the arrest of such person owning or using such electrical equipment.

2. In any case of emergency affecting the safety of persons or property, or where electrical equipment interferes with the work of the fire department, or where electrical equipment is not installed in conformity with this chapter, the commissioner may disconnect immediately or cause the removal or disconnection of any such electrical equipment.

3. When the commissioner disconnects or causes to be disconnected electrical current from electrical equipment, he shall attach an official notice, tag, lock or seal to such electrical equipment to prevent the use of electricity. No unauthorized person may attach such official notice, tag, lock or seal, or break open, change, remove, destroy, tear, alter, mutilate, cover or otherwise deface or injure any such official notice, tag, lock or seal.

222-20. Seizure of Electrical Equipment. The commissioner shall have the power and authority and is authorized to seize and take possession of any electrical equipment or materials or parts thereof or attachments therefor which in his opinion are dangerous to life or property or which are suspected or found by him to have been the cause of any fire, accident, injury or fatality, and to retain possession of the same for the purpose of making an investigation, examination or for official evidence. After such electrical equipment or material in the possession of the commissioner have served their purposes, and an official report and record thereof has been made, such electrical equipment or materials shall be returned to the owner, provided said owner requests in writing their return within 90 days from the date of their seizure. If no such request is made, such equipment or materials may be destroyed or disposed of.

SUBCHAPTER 2
ELEVATORS, DUMBWAITERS, ETC.

222-50. Scope. 1. Regulations contained in this subchapter with respect to elevators, power dumbwaiters, material handling elevators, moving walks and ramps, personnel hoists, and escalators are deemed supplemental to ch. SPS 318, Wis. Adm. Code. Plans required in subch III, ch. SPS 318, Wis. Adm. Code, shall be submitted to the commissioner instead of the Wisconsin department of safety and professional services together with 3 copies of the permit application.

222-51. Enforcement. 1. The commissioner or his duly authorized representative shall enforce the regulations of this subchapter.

2. It shall be the duty of the police and fire departments to assist the commissioner or any of his duly authorized representatives in the enforcement of this subchapter, and to permit and allow the commissioner or his representatives inside fire and police lines.

3. The commissioner or his duly authorized representative shall have the right and authority to start legal action to enforce the penalties of this code against any person who has violated any of the regulations of this subchapter.

4. The elevator inspector or inspectors and others duly authorized by the commissioner shall have the power and are authorized to enter any building or premises in the city except occupied dwellings without hindrance from anyone for the purpose of examining elevators or other devices regulated in this chapter and for the enforcement of this subchapter. The engineer or operator having charge of such equipment shall assist the commissioner or other duly authorized person or persons to such extent that he or they may be able to make careful and thorough investigation of every portion of the operating machinery, supports and enclosures connected with such equipment.

5. It shall be unlawful for any person to refuse lawful entry to the commissioner or his duly authorized representative, or to interfere with, harass, abuse, obstruct or cause delay in the performance of their duties.

222-52. Construction Permits. 1. PERMIT REQUIRED. Except as regulated in pars. a and b, no person shall install, alter, repair or replace any elevator or other device regulated in s. SPS 318.1002, Wis. Adm. Code, without first obtaining

a permit therefor and paying the fees as prescribed in s. 200-33.

a. In cases of emergency the permit may be obtained within 72 hours from the time the work is started.

b. Where the extent and cost of the alteration, repair or replacement work is not known in advance, a minimum permit fee must be obtained and a supplemental fee paid after such cost has been determined.

2. APPLICATION FOR PERMIT. An application for permit shall be filed with the commissioner on a form furnished for such purpose for each elevator, moving stairway (escalator), dumbwaiter or other device regulated in this subchapter. Such application shall describe the installation, alteration, repair or replacement work to be done and shall give the separate cost for each elevator, moving stairway (escalator), dumbwaiter or other device.

3. ISSUANCE OF PERMIT. The issuance of a permit for an elevator or other device regulated in this chapter shall not preclude compliance with all ordinances or other laws referring to occupancy and use or construction. No other work on the elevator or other device regulated in this chapter shall be done except work authorized by the permit and as shown on the approved plans (s. 222-53).

4. WORK WITHOUT PERMIT. Where any work is begun on the installation, alteration, repair or replacement of any elevator or other device regulated in s. SPS 318.1002, Wis. Adm. Code, without obtaining a permit as regulated in sub. 1, the commissioner shall have the power and authority to stop such work until a permit has been procured and quadruple fees paid as regulated in s. 200-32-3.

5. WITHHOLDING OF PERMITS.

a. Whenever any elevator installation occurs contrary to the regulations of this chapter, the commissioner shall issue an order to remedy the defective work to the violator at his or her last known address. Failure to comply with the order shall be deemed sufficient reason for withholding future permits, in addition to other penalties provided in this code.

b. The commissioner may also withhold future permits whenever an elevator contractor fails to:

b-1. Perform elevator work within a reasonable period of time after the issuance of a permit.

b-2. Promptly respond to official communication from the commissioner.

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222-53. Plans and Specifications. 1. At the time of a filing of an application for a construction permit the commissioner shall require the manufacturer, owner, installer or user of any elevator or other device regulated in this subchapter to submit plans (drawings) in triplicate, data and specifications, schedules, or literature, information or tests as may be necessary to determine the fitness of equipment for the safe installation and use.

2. The approval of general building plans and specifications by the commissioner shall not be considered as including approval of the installation of any elevator or other device regulated in this subchapter.

222-54. Safety Tests and Tags. A tag shall be fastened to the governor releasing carrier upon completion of a satisfactory test of the car safety device and speed governor. Reports of tests as specified in ch. SPS 318, Wis. Adm. Code, shall also be submitted to the department.

222-55. Protection of Openings in Floors. 1. All openings in floors for the installation, enlargement, extension, alteration, repair or replacement of elevators or other equipment regulated by this chapter shall be protected as provided in ch. 252.

2. It shall be the responsibility of the person making such floor opening to provide and maintain the required protection until the work of installing, enlarging, extending, altering, repairing or replacing such elevator or other equipment is started.

3. Thereafter the person installing, enlarging, extending, altering, repairing or replacing such elevator or other equipment shall be responsible for maintaining the required protection until all of the work on the elevator or other equipment is completed.

222-56. Elevator-Electrical Installation by Licensed Contractor. 1. No person shall engage in electrical work in connection with elevators unless the person is a state-licensed elevator mechanic doing work for a state-licensed elevator contractor or a state-licensed electrician working for a state-licensed electrical contractor.

2. All elevator electrical work shall be regulated by the provisions of this code.

222-57. Mechanical Brakes. Every existing drum type elevator machine equipped with a mechanical brake shall be provided with an electrical brake and direction stop and final limit switches at each terminal of travel.

222-58. Drains in Elevator Pits. In all elevator shaftways located on or below grade, a floor drain or sump pump shall be installed in accordance with ch. SPS 382, Wis. Adm. Code.

222-59. Door Interlock or Contact and Lock. All existing passenger elevators, except roped hydraulic elevators, shall be provided with an approved interlock or contact and lock on each hoistway entrance door or gate in the same manner as required by ch. SPS 318, Wis. Adm. Code, as amended, for new elevators. All necessary requirements of emergency keys and keyways shall also be provided.

222-60. Gates and Doors. Every new or existing passenger elevator, except roped hydraulic elevators, shall be provided with a car gate or car door at each entrance to the car used for loading and unloading. Such gate or door shall be equipped with an approved electric contact which will prevent the car from running unless the car gate or door is in the closed position. Such electric contact shall be so located that it is not readily accessible from the inside of the car.

222-61. Freight Elevators. 1. Freight elevators shall not be permitted to carry passengers.

2. Each freight elevator shall contain a sign which reads: "THIS IS NOT A PASSENGER ELEVATOR. NO PERSON OTHER THAN A FREIGHT HANDLER IS PERMITTED TO RIDE ON THIS ELEVATOR." The sign shall be permanently and securely fastened in a conspicuous location within the car enclosure. The sign shall be of such material and construction that the letters stamped, etched, cast or otherwise applied to the face shall remain permanently and readily legible. The letters shall not be less than 1/2 inch (13 mm.) high.

Electrical And Elevator Codes 222--(History)

**LEGISLATIVE HISTORY
CHAPTER 222**

Abbreviations:

am = amended
cr = created

ra = renumbered and amended
rc = repealed and recreated

rn = renumbered
rp = repealed

<u>Section</u>	<u>Action</u>	<u>File</u>	<u>Passed</u>	<u>Effective</u>
ch. 22	rn ch. 222	85-1396	12/20/85	1/1/86
222-01	cr	891008	10/10/89	10/28/89
222-01	am	961523	2/11/97	2/28/97
222-01	am	020467	8/1/2002	8/20/2002
222-01	am	151597	3/1/2016	3/18/2016
222-02	rn from 222-01	891008	10/10/89	10/28/89
222-03	cr	151597	3/1/2016	3/18/2016
222-1-1	am	85-1396	12/20/85	1/1/86
222-1-1	am	170467	9/26/2017	10/13/2017
222-1-1-b	cr	170467	9/26/2017	10/13/2017
222-1-1-c	cr	170467	9/26/2017	10/13/2017
222-1-2-a	rp	151597	3/1/2016	3/18/2016
222-1-2-b	rp	151597	3/1/2016	3/18/2016
222-1-2-c	am	951346	1/23/96	2/9/96
222-1-2-c	rp	151597	3/1/2016	3/18/2016
222-1-2-d	rp	151597	3/1/2016	3/18/2016
222-1-2-e	rp	151597	3/1/2016	3/18/2016
222-1-2-f	rn to 222-1-2-a	151597	3/1/2016	3/18/2016
222-1-2-g	rn to 222-1-2-b	151597	3/1/2016	3/18/2016
222-2	am	85-1396	12/20/85	1/1/86
222-3	am	85-1396	12/20/85	1/1/86
222-3	am	020593	11/8/2002	1/1/2003
222-4	am	85-1396	12/20/85	1/1/86
222-5	am	910636	8/2/91	8/21/91
222-6	am	020593	11/8/2002	1/1/2003
222-7	am	980963	12/18/98	1/1/99
222-7	am	020593	11/8/2002	1/1/2003
222-8	am	85-1396	12/20/85	1/1/86
222-8	am	980963	12/18/98	1/1/99
222-8	am	151597	3/1/2016	3/18/2016
222-9	am	85-1396	12/20/85	1/1/86
222-10	am	85-1396	12/20/85	1/1/86
222-10	am	980963	12/18/98	1/1/99
222-10	am	151597	3/1/2016	3/18/2016
222-11	rc	020593	11/8/2002	1/1/2003
222-11	rp	151597	3/1/2016	3/18/2016
222-11-1-0	am	101025	4/12/2011	6/1/2011
222-11-1	rc	960203	6/4/96	6/21/96
222-11-1-d	cr	101025	4/12/2011	6/1/2011
222-11-1-e	cr	101025	4/12/2011	6/1/2011
222-11-1-f	cr	101025	4/12/2011	6/1/2011
222-11-1-g	cr	101025	4/12/2011	6/1/2011
222-11-1-g	am	110042	5/24/2011	6/14/2011
222-11-2	rc	960203	6/4/96	6/21/96
222-11-2	rn to 222-11-2-a	060491	9/26/2006	10/13/2006
222-11-2-a	rn to 222-11-2	061 052	2/6/2007	2/23/2007
222-11-2-b	cr	060491	9/26/2006	10/13/2006
222-11-2-b	rp	061052	2/6/2007	2/23/2007
222-11-2-c	am	85-1396	12/20/85	1/1/86

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222-11-2-d	am	970910	10/14/97	10/31/97
222-11-2-g	rc	950061	5/16/95	6/3/95
222-11-2-h	am	950061	5/16/95	6/3/95
222-11-3-0	am	85-1396	12/20/85	1/1/86
222-11-3	rc	960203	6/4/96	6/21/96
222-11-3-c-1	am	86-675	7/29/86	8/16/86
222-11-3-c-1	am	961523	2/11/97	2/28/97
222-11-3-c-1	am	990863	10/19/99	11/5/99
222-11-3-c-3	am	85-1396	12/20/85	1/1/86
222-11-3-c-3	am	910636	8/2/91	8/21/91
222-11-3-d-1	am	86-675	7/29/86	8/16/86
222-11-3-d-1	am	961523	2/11/97	2/28/97
222-11-3-d-1	am	990863	10/19/99	11/5/99
222-11-3-d-2	am	851396	12/20/85	1/1/86
222-11-3-d-3	am	851396	12/20/85	1/1/86
222-11-3-e-1	am	86675	7/29/86	8/16/86
222-11-3-e-1	am	961523	2/11/97	2/28/97
222-11-3-e-1	am	990863	10/19/99	11/5/99
222-11-3-e-2	am	851396	12/20/85	1/1/86
222-11-3-f-1	am	961523	2/11/97	2/28/97
222-11-3-f-1	am	990863	10/19/99	11/5/99
222-11-3-h	am	941414	1/24/95	2/10/95
222-11-3-i	am	821396	12/20/85	1/1/86
222-11-4	am	851396	12/20/85	1/1/86
222-11-4	am	111233	1/18/2012	2/4/2012
222-11-4-d	cr	101025	4/12/2011	6/1/2011
222-11-4-d	am	121595	4/30/2013	5/17/2013
222-11-4-e	cr	101025	4/12/2011	6/1/2011
222-11-4-e	am	121595	4/30/2013	5/17/2013
222-11-4-f	cr	101025	4/12/2011	6/1/2011
222-11-5-e	cr	030080	6/3/2003	6/20/2003
222-11-5-e	rn to 222-11-5-i	101025	4/12/2011	6/1/2011
222-11-5-e	cr	101025	4/12/2011	6/1/2011
222-11-5-f	cr	101025	4/12/2011	6/1/2011
222-11-5-g	cr	101025	4/12/2011	6/1/2011
222-11-5-h	cr	101025	4/12/2011	6/1/2011
222-11-6	rc	900835	10/16/90	11/2/90
222-11-6-0	am	85-1396	12/20/85	1/1/86
222-11-6-c	am	941414	1/24/95	2/10/95
222-11-7	am	030080	6/3/2003	6/20/2003
222-11-9	rc	030080	6/3/2003	6/20/2003
222-11-9-e-1	am	111233	1/18/2012	2/4/2012
222-11-11-b	am	980848	1/17/2007	2/3/2007
222-12	rp	020593	11/8/2002	1/1/2003
222-12-2-a	am	85-1396	12/20/85	1/1/86
222-12-2-b	rp	85-1396	12/20/85	1/1/86
222-12-2-d	am	980963	12/18/98	1/1/99
222-12-4-b	am	980963	12/18/98	1/1/99
222-12-4-c	am	980963	12/18/98	1/1/99
222-12-4-d	am	980963	12/18/98	1/1/99
222-13-1	am	911943	3/3/92	3/20/92
222-13-1	am	960762	9/24/96	10/11/96
222-13-1	am	121804	12/17/2013	1/9/2014
222-13-1	am	151597	3/1/2016	3/18/2016
222-13-2	am	980963	12/18/98	1/1/99
222-13-2-a	am	020593	11/8/2002	1/1/2003

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222-13-2-a	am	110042	5/24/2011	6/14/2011
222-13-2-a	rc	151597	3/1/2016	3/18/2016
222-13-2-a	am	170467	9/26/2017	10/13/2017
222-13-2-b	am	151597	3/1/2016	3/18/2016
222-13-2-c	am	151597	3/1/2016	3/18/2016
222-13-2-d	am	151597	3/1/2016	3/18/2016
222-13-3-a	am	980963	12/18/98	1/1/99
222-13-3-a	am	151597	3/1/2016	3/18/2016
222-13-3-b	am	85-1396	12/20/85	1/1/86
222-13-3-b	am	921114	11/20/92	12/11/92
222-13-4	ra	901086	11/8/90	11/27/90
222-13-4	cr	901086	11/8/90	11/27/90
222-13-4	rp	121804	12/17/2013	1/9/2014
222-13-4-0	rc	911943	3/3/92	3/20/92
222-13-4-a	rc	911943	3/3/92	3/20/92
222-13-4-a	am	980963	12/18/98	1/1/99
222-13-4-b-0	am	911943	3/3/92	3/20/92
222-13-4-b-0	am	941414	1/24/95	2/10/95
222-13-4-b-2	am	941414	1/24/95	2/10/95
222-13-4-b-3	rp	911943	3/3/92	3/20/92
222-13-5	rn to 222-13-6	960762	9/24/96	10/11/96
222-13-5	cr	960762	9/24/96	10/11/96
222-13-5	rc	110042	5/24/2011	6/14/2011
222-13-5	rp	151597	3/1/2016	3/18/2016
222-13-5-a	am	980963	12/18/98	1/1/99
222-13-6	am	151597	3/1/2016	3/18/2016
222-13-7	cr	960762	9/24/96	10/11/96
222-13-7-b-3	cr	110042	5/24/2011	6/14/2011
222-13-7-b-3	rc	151597	3/1/2016	3/18/2016
222-13-8	cr	960762	9/24/96	10/11/96
222-15-0	rp	891008	10/10/89	10/28/89
222-15-1	am	980963	12/18/98	1/1/99
222-15-1	am	110042	5/24/2011	6/14/2011
222-15-2	am	85-1396	12/20/85	1/1/86
222-15-2	am	980963	12/18/98	1/1/99
222-15-2	rp	151597	3/1/2016	3/18/2016
222-15-3	rn to 222-15-2	151597	3/1/2016	3/18/2016
222-15-4	rn to 222-15-3	151597	3/1/2016	3/18/2016
222-15-5	rn to 222-15-4	151597	3/1/2016	3/18/2016
222-16	am	980963	12/18/98	1/1/99
222-16	am	151597	3/1/2016	3/18/2016
222-17-1	am	85-1396	12/20/85	1/1/86
222-17-3	am	980963	12/18/98	1/1/99
222-17-3	am	110042	5/24/2011	6/14/2011
222-17-4	am	980963	12/18/98	1/1/99
222-17-4	am	110042	5/24/2011	6/14/2011
222-19	am	85-1396	12/20/85	1/1/86
222-19-1	am	910636	8/2/91	8/21/91
222-19-1	am	921114	11/20/92	12/11/92
222-20	am	980963	12/18/98	1/1/99
222-21	rp	110042	5/24/2011	6/14/2011
222-22	am	85-1396	12/20/85	1/1/86
222-22	am	991763	5/14/2002	10/1/2002
222-22	rp	110042	5/24/2011	6/14/2011
222-22-1	am	871091	11/17/87	12/10/87
222-23	rp	110042	5/24/2011	6/14/2011

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222-23-2-i	am	851396	12/20/85	1/1/86
222-23-2-i	am	961523	2/11/97	2/28/97
222-23-2-k	am	851396	12/20/85	1/1/86
222-23-2-k	am	961523	2/11/97	2/28/97
222-23-3	am	851396	12/20/85	1/1/86
222-50	am	851396	12/20/85	1/1/86
222-50	rc	891008	10/10/89	10/28/89
222-50	am	961523	2/11/97	2/28/97
222-50	am	980963	12/18/98	1/1/99
222-50	am	090332	7/28/2009	8/14/2009
222-50	am	111233	1/18/2012	2/4/2012
222-50-1	am	151597	3/1/2016	3/18/2016
222-51	am	980963	12/18/98	1/1/99
222-52-1-0	am	851396	12/20/85	1/1/86
222-52-1-0	am	111233	1/18/2012	2/4/2012
222-52-1-0	am	151597	3/1/2016	3/18/2016
222-52-1	am	990933	10/19/99	11/05/99
222-52-1	am	001458	2/27/2001	3/16/2001
222-52-1	am	040631	9/21/2004	10/8/2004
222-52-2	am	980963	12/18/98	1/1/99
222-52-2	am	151597	3/1/2016	3/18/2016
222-52-3	am	851396	12/20/85	1/1/86
222-52-4	am	851396	12/20/85	1/1/86
222-52-4	am	980963	12/18/98	1/1/99
222-52-4	am	990933	10/19/99	11/5/99
222-52-4	am	040631	9/21/2004	10/8/2004
222-52-4	am	111678	5/22/2012	6/12/2012
222-52-5	cr	980695	9/23/98	10/10/98
222-53	am	85-1396	12/20/85	1/1/86
222-53	am	980963	12/18/98	1/1/99
222-53	am	151597	3/1/2016	3/18/2016
222-54	am	980963	12/18/98	1/1/99
222-54	am	001458	2/27/2001	3/16/2001
222-54	am	111678	5/22/2012	6/12/2012
222-54	am	151597	3/1/2016	3/18/2016
222-55	am	851396	12/20/85	1/1/86
222-56-1	am	851396	12/20/85	1/1/86
222-56-1	am	980963	12/18/98	1/1/99
222-56-1	am	151597	3/1/2016	3/18/2016
222-58	am	851396	12/20/85	1/1/86
222-58	am	961523	2/11/97	2/28/97
222-58	am	970131	5/13/97	5/31/97
222-58	am	980695	9/23/98	10/10/98
222-58	am	111678	5/22/2012	6/12/2012
222-59	am	970623	7/25/97	8/13/97
222-59	am	111678	5/22/2012	6/12/2012
222-61	cr	930413	7/6/93	7/23/93

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