Ind 8 Appendix

### APPENDIX

The material contained in this appendix is for clarification only. The notes, illustrations, forms, etc., are numbered to correspond to the number of the rule as it appears in the text of the chapter.

### A 8.006 Nonadopted Standard

36

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The following standards are not incorporated by reference into this chapter; however, they do contain information which may be of use in answering questions concerning flammable and combustible liquids.

### ANSI References

| B31          | American National Standard Code for Pressuring Piping  |
|--------------|--|
| B31.3        | Petroleum Refinery Piping  |
| B31.4        | Liquid Petroleum Transportation Piping Systems   |
|              | A.P.I. References  |
| 620          | Recommended Rules for the Design and Construction of<br>Large, Welded, Low pressure Storage Tanks, plus<br>Appendix—Fifth Edition 1973 |
| 650          | Specifications for Welded Steel Tanks for Oil Storage, plus<br>Appendix Fifth Edition—1973   |
| 2000         | Venting Atmospheric and Low Pressure Storage Tanks—1973  |
| 12B          | Specifications for Bolted Production Tanks—Eleventh Edition May 1958 and Supplement I, April 1962                                      |
| 12D          | Specifications for Large Welded Production Tanks, Seventh<br>Edition August 1957 and Supplement I, March 1965                          |
| 12F          | Specifications for Small Welded Production Tanks, Sixth<br>Edition March 1968  |
|              | ASTM References  |
| A-395-<br>74 | Ferritic Ductile Iron Pressure Retaining Castings for Use at<br>Elevated Temperatures  |
|              | NFPA References  |
| 11           | Standard for Foam Extinguishing Systems  |
| 11A          | Standard for High Expansion Foam Systems   |
| 12           | Standard on Carbon Dioxide Extinguishing Systems   |
| 12A          | Standard on Halogenated Fire Extinguishing Agent<br>Systems—Halon 1301   |
| 13           | Standard for the Installation of Sprinkler Systems   |
| 14           | Standard for the Installation of Standpipe and Hose Systems  |
| 15           | Standard for Water Supply Fixed Systems for Fire<br>Protection   |
| 17           | Standard for Dry Chemical Extinguishing Systems  |
| 24           | Standard for Outside Protection  |
| 27           | Recommendations for the Organization, Training and Equipment of Private Fire Brigades  |
| 33           | Standard for Spray Finishing   |

Standard for Solvent Extraction Plants

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|------|--|
| 51   | Standard for the Installation and Operation of Oxygen-Fuel<br>Gas Systems for Welding and Cutting  |
| 68   | Guide for Explosion Venting  |
| 69   | Standard on Explosion Prevention Systems   |
| 71   | Standard for the Installation Maintenance and Use of<br>Central Systems for Guard, Fire Alarm and<br>Supervisory Service   |
| 72A  | Standard for the Installation Maintenance and Use of Local<br>Protective Signaling Systems for Watchman, Fire<br>Alarm and Supervisory Service   |
| 72B  | Standard for the Installation and Use of Auxiliary Protective<br>Signaling Systems for Fire Alarm Service  |
| 72C  | Standard for the Installation Maintenance and Use of<br>Remote Station protective Signaling Systems  |
| 72D  | Standard for the Installation Maintenance and Use of<br>Proprietary Protective Signaling Systems for<br>Watchman, Fire Alarm and Supervisory Service   |
| 73   | Standard for the Installation Maintenance and Use of<br>Municipal Fire Alarm Systems   |
| 77   | Recommended Practice on Static Electricity   |
| 78   | Lightning Protection Code  |
| 86A  | Standard for Ovens and Furnaces  |
| 87   | Standard for the Construction and Protection of Piers and Wharves  |
| 90A  | Standard for the Installation of Air Conditioning and<br>Ventilating Systems   |
| 91   | Standard for the Installation of Blower and Exhaust Systems for Dust, Stock and Vapor Removal or Conveying   |
| 204  | Guide for Smoke and Heat Ventilating   |
| 231  | Indoor General Storage   |
| 231C | Rack Storage of Materials  |
| 327  | Standard Procedures for the Standard for Cleaning or<br>Safeguarding Small Tanks and Containers  |
| 386  | Standard for Portable Shipping Tanks   |
| 407  | Aircraft Fueling Servicing   |
| 496  | Standard for Purged Enclosures for Electrical Equipment in<br>Hazardous Locations  |
| 505  | Standard for Powered Industrial Trucks   |
| 704  | Identification of the Fire Hazards of Materials  |
|      | THE THE TAX AND TH |

### Underwriters' Laboratories, Inc. References

Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids, UL 142-1972

Standard for Steel Underground Tanks for Flammable and Combustible Liquids, UL 58-1971

Standard for Steel Inside Tanks for Oil Burner Fuel, UL 80-1974 Register, February, 1982, No. 314

- A 8.11 (6) Forms. The following form (SBD-9) is referred to in this section. Copies of this form are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707.
- A 8.125 (2) Forms. The following form (SBD-6294) is referred to in this section. Copies of this form are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707.
- A 8.14 Forms. The following forms (SB-8 and SB-8A) are referred to in this section. Copies of these forms are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707.

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| DITHIT \$80.2 (F. 12.50)  | L.,                                       |   |                                 |                |                  |                  |           |  | 1 .  |

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## FIRE DEPARTMENT INSPECTION CHECKLIST FOR UNDERGROUND TANK INSTALLATION

| PAT | E      |         | NAME   |
|-----|--------|---------|--|
| ADD | RESS   |         | ·  |
|     |        | Α:      | IN COMPLIANCE B = NOT IN COMPLIANCE  |
|     | A      | В       |  |
| PLA | N APPE | A LAVO  | ND LOCATION  |
| ١.  |        |         | Plans have been submitted and approval obtained before install-<br>ation, (Tanks 5000 gallons or larger individual capacity<br>require approval by state). (Tanks under 5000 gallon capacity<br>require approval by chief of local fire department). |
| 2.  |        |         | Tanks located a minimum of 1 foot from buildings and 3 feet from property line that can be built upon.   |
| IAT | K CONS | TRUCTI  | ON   |
| 3.  |        |         | Tanks are new and carry UL Label. (UL label required for Fiberglass Tanks).  |
| 4.  |        |         | Tanks do not have a UL label; owner has certified statement that tanks are constructed in accordance with UL specifications.   |
| 5.  |        |         | Tanks are used, but have been tested and certified to be of sound construction. (Certification from Boiler Section).   |
| COL | ROSION | 1 PROTE | CTION  |
| 6.  |        |         | Cathodic protection (anodes) are in place, if required.  |
| 7.  |        |         | Steel tanks have been coated for corrosion protection, (Fiber-<br>glass tanks do not require corrosion protection).  |
| DE  | TH ANI | COVER   | •  |
| 8.  |        |         | Tanks locations, subject to vehicle traffic, will have 3 feet of earth cover or 18 inches of earth plus 6 inches of reinforced concrete or 8 inches of asphalt.  |
| 9.  |        |         | Tank location, not subject to vehicle traffic, will have a minimum of 2 feet of earth or 1 foot of earth plus 4 inches of reinforced concrete.   |
| BAG | K FIL  | L       |  |
| 0.  |        |         | Back fill will be clean sand or pea gravel well tamped in place, 6" around tanks.  |
| SW  | 116 JO | ints    |  |
| 1.  |        |         | Swing joints are installed above tank and below dispenser.   |
| VE  | STING  |         |  |
| 2.  |        |         | Vents from gasoline storage tanks are located so that the discharge point is at least 12 feet above adjacent ground level. Vents from gasoline tanks shall discharge only upward. Vents shall not terminate under eaves or near a building opening.  |
| 3.  |        |         | Vents from fuel oil or diesel fuel storage tanks shall be 3 to 4 feet above adjacent ground level. Elbows or "T" vents   |

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| may be subjected to f  | area with high water table or area<br>looding and tanks are effectively an<br>been tested for tightness and found |      |
|--|---|------|
| may be subjected to f FESTING  Tanks and piping have be free from any leak | looding and tanks are effectively and been tested for tightness and found   |      |
| Tanks and piping have be free from any leak                                | been tested for tightness and found   | chor |
| Tanks and piping have<br>be free from any leak                             |   |      |
|  | SS -  | to   |
| CHILD I TON DOM D  |   |      |
| 7. Collection sumps have   | been properly installed.  |      |
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|  |   |      |
| Signature of Owner or Operator   | Signature of Fire Inspector   |      |
|  | Fire Department   |      |

Register, February, 1982, No. 314

Mailing address

PETITION FOR MODIFICATION OF A HULE IN THE WISCONSIN ADMINISTRATIVE CODE

### WISCONSIN DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS DIVISION OF SAFETY & BUILDINGS P.O. BOX 7969, MADISON, WI 63707

| one of Owner                        |                         | Building Occupancy                      | or Use                           | Agent, Architect or Engineering Firm |                       |  |
|-------------------------------------|-------------------------|---|----------------------------------|--------------------------------------|-----------------------|--|
| ordeny.                             |                         | Tenant Name, if any                     |                                  | Speci & No.                          |                       |  |
| moonly .                            |                         |   |                                  |                                      |                       |  |
| rt & No                             | "                       | Building Location, S                    | irreet & No.                     | City                                 | Sum 8 Zop             |  |
|                                     | State & Zo              | City                                    | County                           | Phone                                |                       |  |
| Rule Ind.                           |                         | of the Wisconsin Ada                    | nirstrative code cannot          | be entirely satisfied be             | xause:                |  |
| 10.0 1110.                          |                         | 211112111111111111111111111111111111111 |                                  |                                      |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
| -                                   |                         | <del></del>                             |                                  | <b></b>                              |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
| n. Leu of compl<br>Ingree of safety |                         | eule, the following alt                 | ernative is proposed as a        | a means of providing a               | n equivarent          |  |
| ,                                   |                         |   |                                  |                                      |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
|                                     | 1.00                    |   |                                  |                                      |                       |  |
|                                     |                         |   | ·                                |                                      |                       |  |
| ipporting argur                     | Test, are:              | · · · · · ·                             |                                  |                                      |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
|                                     |                         | · · ·                                   |                                  |                                      |                       |  |
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|                                     |                         |   |                                  |                                      |                       |  |
|                                     |                         |   |                                  |                                      |                       |  |
| -<br>Vernication by                 | A OARéi                 |   | ****                             |                                      |                       |  |
|                                     | •                       |   |                                  |                                      |                       |  |
| que g petition a                    | and that the same is to |   | ly sworn, says he is the ;<br>s. | petitioner herein, thus              | he has read the fore- |  |
|                                     |                         |   |                                  |                                      |                       |  |
|                                     |                         |   |                                  | signature of owner                   |                       |  |
| subscribed and                      | sworn to me this        | day of                                  | inCo                             | unty, Wisconsin.                     |                       |  |
|                                     |                         |   |                                  | Notary Pr                            | ablic                 |  |
| Corres sees. Act                    |                         |   | Hven                             | nmission expires:                    |                       |  |
|                                     |                         |   |                                  | annualist express                    |                       |  |
| Secretary                           |                         | Da's                                    |                                  | TITION IS VALID OF                   | ILY IF NOTARIZED      |  |
|                                     |                         |   |                                  | on Fee: \$200.00, see                |                       |  |

Ind 8 Appendix

POSITION STATEMENT: To be compiled by Chief of Fire Department SB 8-A (1-77)

### WISCONSIN DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS DIVISION OF SAFETY & BUILDINGS P.O. BOX 7989 MADISON WI 53707

| Name of Owner                     | ·== <del></del>  | Building Oc                     | eupancy or Use      |                   | Agent, Archite     | of Engineering Firm           |  |
|-----------------------------------|--|---------------------------------|---------------------|-------------------|--------------------|-------------------------------|--|
| Сетрату                           |  | Tenant Name, if any             |                     |                   | Street & No.       |                               |  |
| Street & No.                      |  | Building Location, Street & No. |                     |                   | City               | Sun & Zio                     |  |
| Oly                               | State & Zip  | City                            |                     | County            | Phone              |                               |  |
|                                   | petition for modification                                |                                 |                     |                   |                    |                               |  |
| 2. I recommend<br>(Check appropri |  | Denial                          | Approval            | Conditions        | I Approval         | No Comment*                   |  |
| 3. Explanation for                | Recommendation:  |                                 |                     |                   |                    |                               |  |
|                                   |  |                                 |                     |                   |                    |                               |  |
| !                                 |  |                                 |                     |                   |                    |                               |  |
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| ·<br>I                            |  |                                 |                     |                   |                    |                               |  |
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| 1                                 |  |                                 |                     |                   |                    |                               |  |
|                                   |  |                                 |                     |                   |                    | '                             |  |
| barrier free envir                | ronmants, etc.   | ite "Na Com                     | ment" on non-fire s | afety issues such | h as sanitery, ene | rgy conservation, structural, |  |
|                                   | onflict with local rules a<br>the patition is in conflic |                                 |                     | \$                |                    |                               |  |
| Explanation                       |  | — . <u>-</u>                    |                     |                   | <del></del>        |                               |  |
| :                                 |  |                                 |                     |                   |                    |                               |  |
|                                   |  |                                 |                     |                   |                    |                               |  |
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| !                                 |  |                                 |                     |                   |                    |                               |  |
|                                   | _,,  |                                 |                     |                   |                    | · · · · · · ·                 |  |
| Signature of Fire C               |  |                                 | ·                   |                   |                    | Date                          |  |
| r · · ·                           | •  |                                 |                     |                   |                    |                               |  |
| •                                 |  |                                 | <u>.</u>            |                   |                    |                               |  |

PLEASE COMPLETE AND SUBMIT PROMPTLY TO DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS AT THE ADDRESS SHOWN ABOVE.

Register, February, 1982, No. 314

# SHEAT.

### STATE OF WISCONSIN/DILHR/FIRE PREVENTION SECTION

### PROGRAM CHECK LIST



In regards to training of persons who will operate the key, card or code dispensing devices in accordance with Chapter Ind 8 of the Flammable and Combustible Liquids Code - Ind 8.11 (4) (h) 1.

#### CARDTROL OPERATING INSTRUCTIONS

- Turn off engine and extingish all smoking materials.
- Insert key, card or code into reader unit.
- 3. When "Select Pump" light comes on push button to select desired pump.
- Remove key or card from reader. You now have 80 seconds to start fueling before unit "times out".
- 5. Remove mozzel from selected pump and turn lever on.
- 6. After fueling turn pump lever off and replace nozzle on pump.

#### SAFETY INSTRUCTIONS AGREEMENT

- Always' turn off engine before fueling.
- 2. Never smoke or use open flame devices in vicinity of pumps.
- Never dispense gasoline into a glass container. Use only red metal containers or UL listed or classified containers for gasoline.
- 4. Never dispense diesel fuel into a red container.
- Familiarize yourself with the locations of the fire extinguisher and emergency electrical cutoff switch.
- 6. To use fire extinguisher, break glass to gain access.
- 7. Follow instructions on the use of the fire extinguisher.
- To disconnect electric power to pumps, break glass and pull switch on emergency shutoff located on the building.
- The emergency telephone number is conspiciously posted at the site and customer agrees to call this number in case of a spill or if any other hazardous condition is found to exist.

| agreements: (special provisions between owner ar | id membert                               |                               |
|--|--|-------------------------------|
|  | Agency State (Section)                   |                               |
| RESPONSIBILITY OF CUSTOMER: luse, payment, key-  | ard control, etc.)                       |                               |
|  |  | 1 14                          |
| I certify that I received the instructions and   | training necessary<br>_key, card or code | the state of the state of the |
| Customers signature                              | date                                     |                               |
| Company representative signature                 | date                                     |                               |