# ILLINOIS POLLUTION CONTROL BOARD March 17, 2005

| IN THE MATTER OF:              | ) |                      |
|--------------------------------|---|----------------------|
|                                | ) |                      |
| PROPOSED NEW AND UPDATED RULES | ) | R03-9                |
| FOR MEASUREMENT AND NUMERICAL  | ) | (Rulemaking - Noise) |
| SOUND EMISSIONS STANDARDS      | ) |                      |
| AMENDMENTS TO 35 ILL. ADM CODE | ) |                      |
| 901 and 910                    | ) |                      |

Proposed Rule. Second First Notice.

OPINION AND ORDER OF THE BOARD (by G.T. Girard):

Pursuant to Sections 27 and 28 of the Illinois Environmental Protection Act (Act), (415 ILCS 5/27-5/28 (2002)) and 35 Ill. Adm. Code 102.Subpart B, on February 20, 2003, the Board opened this rulemaking to propose updated regulations governing noise found in 35 Ill. Adm. Code Subtitle H. Many of the sound measurement definitions and techniques in the Board's current rules do not reflect present scientific standards. The instant proposal revises outdated numerical sound emission standards for property line noise sources found at 35 Ill. Adm. Code 901. In addition, the proposal adds Part 910 to the Board's rules that incorporates noise measurement techniques currently contained only in Illinois Environmental Protection Agency (Agency) rules at 35 Ill. Adm. Code 951.

#### **BACKGROUND**

The Board's noise rules were updated in 1983 and again in 1987. In 1990, the Department of Energy and Natural Resource<sup>1</sup> (DENR) contracted Dr. Paul Schomer of the University of Illinois to examine the adequacy of Illinois noise regulations, and, particularly whether the existing rules were adequate to regulate discontinuous noise. Dr. Schomer's report, "Impulse Noise Study," (ILENR/RE-EA-90-16, printed November 1990, Springfield, IL) suggested some adjustments in the Board's noise regulations. In 1991, DENR contracted for an additional report by Dr. Schomer, entitled, "Proposed Revisions to Property Line Noise Source: Measurement Procedures", (ILENR/RE-EA-91/10, printed June 1991, Springfield, IL), describing and developing a systematic set of procedures for noise measurements.

During the summer of 1991, the Board prepared a proposal that attempted to translate the Schomer reports into regulatory language (<u>Amendments to 35 Ill. Adm. Code Subtitle H Noise-Pertaining to Definitions, Measurement Procedures, and Sound Emission Standards Relating to Certain Noise Sources, R91-25 (Oct. 24, 1991)). An inquiry hearing based on the document was held on November 25, 1991, in Chicago. The Board's proposal was based on revising the noise measurement procedures at Section 900.103(b) and the impulsive sound standards at Section 901.104. In addition, the Board proposed incorporating Agency noise measurement procedures</u>

<sup>&</sup>lt;sup>1</sup> In 1995, P.A. 89-50 (eff. July 1, 1995) (20 ILCS 5/801 *et seq*. (2002)) merged DENR into the Department of Natural Resources.

found at 35 III. Adm. Code 951 into Board regulations at 35 III. Adm. Code 910, by modifying the Part 951 language to incorporate the recommendations contained within the Schomer reports. In 1992, the Board closed the R91-25 docket before proceeding to first notice with proposed changes to the Board's noise rules.

The need to update the Board's noise rules to conform to current scientific procedures has become more apparent during the past ten years. The Board has identified necessary improvements in several areas. In the instant rulemaking, the Board proposes changes in Part 901 and the addition of Part 910. In Part 901, the Board proposes to replace the references to the Standard Land Use Coding System (SLUCM) codes with the more appropriate Land-Use Based Classification System. New rules in Part 910 are proposed to incorporate Agency noise measurement procedures found at 35 Ill. Adm. Code 951.

#### **PROCEDURAL HISTORY**

The Board opened this rulemaking by issuing a draft for public comment on February 20, 2003. The Board elicited comments on the draft prior to first notice publication from the public and those involved in prior rulemakings involving noise regulation. Individuals who were on the notice list were sent drafts and the hearing dates. In addition, the proposed rule and the notice of hearings were posted on the Board's website. The Board held two hearings in this matter after the proposal for public comment was distributed, before Hearing Officer William F. Murphy. The first was held in Springfield on May 1, 2003; no members of the public attended that hearing. The second hearing (Tr.2) was held in Chicago on May 15, 2003. Joel Sternstein and Howard Chinn of the Illinois Attorney General's Office (AGO) attended the second hearing and Mr. Chinn presented testimony. During the time that the proposal was offered for public comment, the Board received two public comments, one from the AGO (PC 2) and one from Dr. Paul Schomer (PC 1).

On July 10, 2003, the Board proposed the rule for first notice. On July 25, 2003, the first notice was published in the *Illinois Register* (27 Ill. Reg. 11908). The Board received five public comments. The comments were from Scot Forge (PC 3), Vaughan and Bushnell Manufacturing (PC 4), Illinois Association of Aggregate Producers (IAAP) (PC 5), Boughton Trucking and Materials Inc. (Boughton Trucking) (PC 6) and Intermet Decatur Foundry (Intermet) (PC 7). In general, the comments requested a site-specific rule modification or requested another hearing to discuss concerns with the proposed rule.

On October 18, 2003, the Board determined that additional hearings should be held. After holding an additional hearing, the Board determined on March 4, 2004, that administrative economy supported including site-specific changes in a new first notice. Because of these decision, the Board withdrew the first notice (*See* 28 Ill. Reg. 7341, 7342 (May 21, 2004)).

The Board held two additional hearings before Board Hearing Officer Marie Tipsord. The third hearing (Tr.3) was held February 10, 2004, in Chicago. At that hearing, Mr. John P. McGillivray testified on behalf of Scot-Forge Company and Howard Chinn testified on behalf of the AGO. The fourth hearing (Tr.4) was held November 4, 2004, in Springfield. Mr. John Henriksen and Dane Tittman testified on behalf of the IAAP.

The Board received an additional six comments during the second phase of hearings. The comments were from Moline Forge (PC 8), Intermet (PC 9, IAAP (PC 10), the AGO (PC 11), Village of Bridgeview (Bridgeview) (PC 12), and the Illinois Department of Natural Resources (IDNR) (PC 13).

#### PRE-FIRST NOTICE COMMENTS

Dr. Paul Schomer filed a comment questioning the Board's language in Sections 910.106 and 910.107. Dr. Schomer indicated that the language was nearly identical to the language contained in ANSI S12.9 Part 3-1998 (R2003) (ANSI standard). Dr. Schomer stated that the material in ANSI standard was copyrighted material and asked that the language be removed. In response to the comment, the Chairman of the Board (by a letter dated March 21, 2003 and included in the record of this proceeding) notified Dr. Schomer that the language as used in Section 910.106 and 910.107 was based on language included in an Illinois Department of Energy and Natural Resource's study *Proposed Revisions to Property Line Noise Source:*Measurement Procedures (ILENR/RE-ES-91/10). The Chairman's letter pointed out that the study was published in 1991 and that the materials were included in a prior public record. The Board therefore declined to remove the language.

The AGO filed a comment and provided testimony. In the comment, the AGO applauded the Board's decision to update the amendments to the noise rules. PC 1 at 1. The AGO indicated that the updating of the noise rules is a significant regulatory update that will provide a statewide uniform program for noise pollution enforcement by state and local governments. *Id.* The AGO suggests adopting a five-minute measurement period rather than the current one-hour measurement period. PC 1 at 2.

Mr. Chinn, chief engineer for the Environmental Bureau of the AGO, made two points. First, he testified that the regulations should explicitly state that one-hour averaging and an integrating meter are not required. Tr.2 at 9. Second, Mr. Chinn suggested that the Board set statewide regulations to limit the hours of operations for all types of lawn care equipment and set limits on the sound levels for the equipment. Tr.2 at 9, 13.

## **FIRST NOTICE**

The participants in this rulemaking raised a number issues concerning the proposed amendments after the publication of the first notice opinion and order on July 10, 2003 (Proposed New and Updated Rules for Measurement and Numerical Sound Emissions Standards; Amendments to 35 Ill. Adm. Code 901 and 910, R03-9 (July 10, 1003)). These issues concerned the qualification of sound monitoring personnel, sound measurement procedures for establishing nuisance noise violation, numerical noise standard for highly impulsive sound from blasting operations as it applies to aggregate industry, and forging industry site-specific regulations. The testimony and comments presented by the participants are summarized below along with the Board findings.

## **Sound Monitoring Personnel Qualifications**

The IAAP, Bridgeview and Boughton Trucking expressed concerns regarding the lack of qualification requirements for personnel conducting sound measurements to show compliance with the standards of 35 Ill. Adm. Code 900 and 901. IAAP, the trade association representing companies that produce crushed stone, sand, gravel, silica sand, etc. filed comments and testified before the Board on the issue of qualification requirements. Tr.4 at 5. IAAP states that although 35 Ill. Adm. Code 951.101 sets forth qualifications for Agency personnel who conduct sound measurements, the new Part 910 does not include similar requirements for non-Agency personnel. PC 5 at 2. IAAP contends that although there is no State approved licensing or certification process for personnel who conduct sound measurements, the Board should incorporate requirements similar to the Agency rules under Part 910. *Id.* IAAP recommends that the Board add a new section 910.101 as follows:

Personnel who conduct sound measurements in order to show compliance with the Board's noise standards in Part 900 and 901 must be trained and experienced in the current techniques and principles of sound measurement and in the selection and operation of sound measuring instrumentation.

Bridgeview and Boughton Trucking share IAAP's concerns regarding the qualifications requirements for personnel who conduct sound measurements. PC 6 and PC 12 at 1-2. Bridgeview states that it concurs with IAAP's position "that sound measurements gathered by anyone without some basic level of training and experience are of questionable validity and should not be considered as valid evidence of noise levels by this Board or by a court of competent jurisdiction." PC 12 at 2. Further, Bridgeview agrees with IAAP that sound measurements used a corroborating evidence in nuisance cases must be collected in accordance with the detailed sound measurement procedures set forth at 35 Ill. Adm. Code 910.105 or 951.104. *Id.* Both Bridgeview and Boughton Trucking support the alternative language submitted by IAAP.

## **Discussion**

The commenters raise a valid concern regarding the qualifications of personnel conducting sound monitoring to show compliance with the noise standards set forth at 35 Ill. Adm. Code 900 and 901. The Board recognizes that based on the complexity of the instrumentation used and the nature of the sound source, the validity of sound measurement data depends on the training and experience of the personnel in current techniques and principles of sound measurement. In this regard, the Board routinely determines the validity of sound measurement data in noise enforcement cases based on the qualifications of the person conducting sound measurement. In making such determinations, the Board relies on sworn expert testimony and a comprehensive record developed through a public hearing process.

The Board finds that the present regulatory structure, where the Board determines the validity of sound data on a case-by-case basis in noise enforcement cases, is a more prudent approach than prescribing vague qualification requirements. The Board believes this is especially true absent a State approved licensing or certification process. Although the qualification requirements proposed by IAAP is derived from an Agency regulation under Part

951, the proposed language lacks specificity and does not provide any additional guidance to the Board in making its determination. In light of this, the Board declines to add the qualification requirement proposed by IAAP.

# **Sound Measurement Procedures for Establishing Nuisance Noise Violation**

IAAP and the Bridgeview assert that techniques for sound measurements used as corroborating evidence in establishing nuisance noise violation must be done in accordance with procedures of Section 910.105. PC 5 at 2; PC 12 at 2. IAAP notes that the proposed measurement techniques applicable to nuisance noise at Section 910.104 do not require sound measurements used for establishing nuisance violation to be gathered in accordance with the procedures of Section 910.105, but allows such procedures to be used as guidance. Thus, IAAP maintains that the proposal at Section 910.104 compounds the problems created by lack of qualification requirements for personnel who conduct sound measurements. PC5 at 3. Bridgeview agrees with IAAP's position and supports the following amendments proposed by IAAP to Section 910.104 (PC 12 at 2-3):

Sound pressure level measurements are not required to establish a violation of 35 Ill. Adm. Code 900.102 (nuisance noise). However, sound pressure level measurements may be introduced as corroborating evidence when alleging a violation of 35 III. Adm. Code 900.102. If sound pressure level measurements are collected, manufacturer's instructions must be followed for the equipment used and 35 Ill. Adm. Code 910.105 may be used as guidance in gathering data. In addition, sound measurements used to establish a violation of 35 Ill. Adm. Code 900.102 must be obtained in accordance with either:

- a) 35 Ill. Adm. Code 910.105; or
- b) 35 Ill. Adm. Code 951.104.

# **Discussion**

Section 910.104 clarifies that sound pressure level measurements are not required to establish a violation of the Board's nuisance noise standard at Section 900.102, although such measurements may be used as corroborating evidence. In light of this, the Board finds that compliance with the detailed sound measurement procedures set forth in Part 951 or the proposed Part 910 are not required for sound measurements used as corroborating evidence in a nuisance noise proceeding. The Board will assign appropriate weight to sound measurement data submitted in any nuisance noise complaint based on the information in the hearing record and in accordance with the provisions of the Act. As noted in the first first-notice opinion (Proposed New and Updated Rules for Measurement and Numerical Sound Emissions Standards; Amendments to 35 Ill. Adm. Code 901 and 910, R03-9 (July 10, 1003)), the Board believes that this approach is consistent with the Board's precedence and case law concerning nuisance noise complaints. The Board declines to make the changes suggested by IAAP.

Numerical Noise Standard for Highly Impulsive Sound from Blasting Operations

IAAP expressed concerns regarding the existing standards for highly-impulsive sound from explosive blasting at Section 901.109. Mr. John Henriksen, Executive Director of IAAP, testified that blasting operations at aggregate production sites are regulated by the IDNR in accordance with Section 6.5 of the Surface Mined-Land Conservation and Reclamation Act (215 ILCS 715/6.5). Tr.4 at 5 and PC 10 at 1. Mr. Henriksen stated that the industry and IDNR "employ highly trained personnel to conduct air and . . . air blast and ground vibration monitoring as required by the State law." Tr.4 at 6. He noted that although blasting operations are regulated by IDNR, IAAP members are also subject to the Board's noise regulations. *Id*.

Mr. Henriksen noted that the numerical noise standard for highly impulsive sound from blasting operations at Section 901.109 should be revised to reflect the IDNR standard. While the IDNR regulation specifies a standard of 133 decibels at 2 Hertz instrument limit, the current Board regulations at Section 901.109 sets forth a standard of 132 decibels for Class A land and 137 decibels for Class B land. Mr. Tittman with Vibra-Tech Engineers testified that most modern seismographs used for monitoring blasting operations have low frequency response of 2.0 Hertz. Tr.4 at 16. Further he noted that the limit established by IDNR at this frequency is 133 decibels, which is based on a study by U.S. Bureau of Mines. Id. Mr. Tittman stated that the 133 decibels limit is employed nationally to regulate explosive blasting. He also suggested that the Board delete the standards set forth at Section 901.109 for frequency limit less than 01. Hertz and less than 6.0 Hertz. Tr.4 at 41. Mr. Tittman stated that instruments with 0.1 Hertz limit are laboratory grade instruments and the instruments with frequency limit of 6 Hertz are outdated. Tr.4 at 40. As an alternative to making the suggested changes, IAAP recommends that the Board amend the noise regulations to defer to IDNR's enforcement of Illinois' aggregate industry in accordance with Section 6.5 of the Surface Mined-Land Conservation and Reclamation Act. PC 10.

IDNR submitted comments supporting IAAP's position regarding the regulation of blasting operations. PC 13. IDNR states that it regulates blasting operations at all surface aggregate and coal mines in the State. IDNR employs conservative limits of 1 inch per second ground vibration and 133 decibels maximum air over pressure. *Id.* IDNR states that regulatory compliance at all of the State's 172 active aggregate and coal blasting sites is determined by routine inspection and monitoring by highly trained field staff. In light of this, IDNR requests that the Board take into consideration IAAP's recommendations and avoid any duplicity between the State agency regulations. In addition, IDNR recommends that air over pressure limit be established at the commonly accepted industry standard of 133 decibels at 2.0 Hertz.

# **Discussion**

The Board appreciates the testimony and comments presented by IAAP and IDNR regarding the blasting noise standards. While the Board recognizes that the State's aggregate mining industry is regulated by IDNR pursuant to the Surface Mined-Land Conservation and Reclamation Act (215 ILCS 715/6.5 (2002)), any noise emissions from the activities at the aggregate production sites are also subject to the Board's noise regulations under Section 24 of the Act (415 ILCS 5/24 (2002)). Given the broad applicability of the noise prohibition set forth at Section 24 of the Act (415 ILCS 5/24 (2002)), any exemption from the Board's noise

regulations would require a statutory amendment. The statute specifically excludes "any organized amateur or professional sporting activity" with certain exceptions from the nuisance noise provisions of Section 24 of the Act (415 ILCS 5/24 (2002)). 415 ILCS 5/25 (2002). However, the statute is silent concerning the aggregate mining industry. Therefore absent a statutory exclusion, the provisions of Section 24 of the Act (415 ILCS 5/24 (2002)) apply.

Based on the plain language of the Act, the Board declines to defer the regulation of noise emissions from the aggregate industry to IDNR. However, the Board will amend Section 901.109 as suggested by IAAP and IDNR to ensure that the aggregate industry is subjected to a consistent statewide regulatory standard.

The Board changes the equivalent maximum sound pressure level limit for a sound measuring instrument with lower frequency limit of 2.0 Hertz at Section 901.109(b) from: 132 decibels to 133 decibels for receiving Class A land; and 137 decibels to 133 decibels for receiving Class B land. The limit of 133 decibels reflects the IDNR standard set forth at 35 Ill. Adm. Code. In addition, the Board eliminates the equivalent maximum sound pressure level limits for receiving Class A and Class B land for instruments with lower frequency limits of 0.1 Hertz and 6.0 Hertz. As noted by Mr. Tittman, the 0.1 Hertz instruments are laboratory grade instruments, which are not used in the field and the 6.0 Hertz devices are no longer manufactured.

# Site-Specific Noise Regulations Concerning Forging Industry

The Board has adopted a number of site-specific noise regulations pertaining to forging industry under Part 901. On March 4, 2004, the Board determined that "administrative economy supports including the site-specific changes" in this rulemaking proposal. In response to that order, the Board received comments from four companies that are subject to a site-specific rules. Moline Forge commented on the proposal noting that the site-specific rule is "still required and critical for Moline Forge to operate" and does not seek a change to the rule. PC 8 at 1. Three of the companies that are subject to the site-specific rules have filed comments seeking changes to those rules. These companies include Scot Forge, Vaughan and Bushnell Manufacturing Company, and Intermet Decatur Foundry. The following discussion explains the site-specific changes suggested by the three companies.

## **Scot Forge**

Scot Forge's divisions, Atlas Forge located in Cicero, Illinois. Scot Forge states that it purchased another drop hammer forging company located in Franklin Park, Illinois in 1992 and consolidated the Cicero Plant operations described in Section 901.118 with the Franklin Park facility. PC 3. Scot Forge notes that the Cicero Plant was shut down and the property was sold upon completion of the consolidation. Scot Forge now requests that the Board amend the site-specific rule at Section 901.118 to: (1) reflect the change in location of Scot Forge's operation from Cicero to Franklin Park; (2) increase the number of hammers allowed to operate at any given time from six to seven; and (3) change the operating hours from 6 a.m. to 6 p.m. to 6 a.m. to 11 p.m.

Mr. John McGillivray, Manager of Safety and Environmental Affairs, testified on behalf of Scot Forge regarding the consolidated operation and the requested relief. Mr. McGillivray stated that the Franklin Park facility is bordered on the east by Wisconsin Central Railroad line, on the west by Nelson Steel, and on the south across the street by a bakery. Tr.3 at 9-10, 14. Further, he noted that residential homes are located to the east of the facility and also on the side streets behind the businesses along Belmont avenue (north). Tr.3 at 20. Mr. McGillivray noted that the nearest residence is located west of Nelson Steel at a distance of approximately 100 yards from Scot Forge's facility. Tr.3 at 11, 14.

Regarding the forging operation, Mr. McGillivray stated that while the facility purchased from Hellstrom Corporation had eight steam drop hammers, currently Scot Forge operates only six hammers at the facility. Tr.3 at 8. He noted that the hammers are 30 to 50 years old. Although the initial request for relief was based on six hammers operating at any one time, Mr. McGillivray requested that the Board grant relief for the operation of seven hammers at any given time. *Id.* He noted that the addition of the seventh hammer would provide operational flexibility to accommodate growth in the business. *Id.* Scot Forge's annual sales are expected to increase from \$145 million to \$154 million in 2004. Tr.2 at 6. Scot Forge employs approximately 60 people at the Franklin Park facility. Tr.3 at 15.

With regard to operating hours, Mr. McGillivray explained that while currently the hammers are operated only during the first shift, Scot Forge might run them during second shift if business continues to grow. Tr.3 at 15. At present he noted "second shift personnel only run the machine side and heat treat operations, and then third shift is a . . . one maintenance person and one heat treat operator. So those, generally speaking, are noiseless operations." Tr.3 at 16. Mr. McGillivray stated that the majority of noise from the operations comes between 6 a.m. and approximately 3:30 to 4:00 p.m. *Id*.

Mr. McGillivray also provided testimony on the ambient noise and the noise levels emanating from the forging operations. Mr. McGillivray maintained that noise levels in the area are exceptionally high because of the train traffic on Wisconsin Central Rail Road, which is one of the largest and busiest railroads in the area. Tr.3 at 9. Regarding the noise from the facility, he noted that while the noise levels inside the building range from 110 to 114 dB, the noise levels outside at the facility perimeter is typically down 92 to 93 dB. Tr.3 at 9-10. Mr. McGillivray stated that he measured the noise levels by using a noise dosimeter. Tr.3 at 13. He also clarified that the facility does not utilize any specific acoustic baffling material. Tr.3 at 20-21. Mr. McGillivray stated Scot Forge works with the Franklin Park community to resolve any issues that may come up, and during his six-year tenure, he has not received a single noise complaint. Tr.3 at 10.

Scot Forge proposes the following changes to Section 901.118:

Section 901.118 Atlas Forgings Division of Scot Forge Company – Franklin Park Division Operational Level

Atlas Forge Division of Scot Forge and future owners of the forging facility located at 9394 W. Belmont Avenue, Franklin Park 1501 South 55th Court, Cicero, Illinois, shall comply with the following site-specific operational level:

- a) Operate no more than <u>seven</u> three forging hammers at any one time; and
- b) Operate its forging hammers only between the hours of 6:00 a.m. and 116:00 p.m. Monday through Saturday.

<u>Discussion.</u> The Board adopted the site-specific rule for Scot Forge's Cicero forging operation in <u>Atlas Forging Division of Scot Forge Petition for Site-Specific Operational Level Pursuant to Chapter 8: Noise Pollution</u>, R83-34 (Dec. 20, 1984) (R83-34) pursuant to Section 901.105(d), which allows an existing impact forging operation (pre-1982) to seek site-specific relief if the facility is unable to comply with numeric standards for forging operations set forth at Section 901.105. Section 901.105(d) prescribes detailed informational requirements for filing site-specific petitions, including a filing deadline of December 31, 1983. Although, the current request from Scot Forge is not filed pursuant to Section 901.105(d), the Board considers the informational requirements as a guide in making its determination on Scot Forge's request. These requirements include the following:

- A) The location of the petitioner, a description of the surrounding community, and a map locating the petitioner within the community;
- B) A description of the petitioner's operations, the number and size of the petitioner's forging hammers, the current hours of hammer operation, the approximate number of forgings manufactured during each of the three prior calendar years and the approximate number of hammer blows used to manufacture the forgings.
- C) A description of any existing sound abatement measure.
- D) The sound levels in excess of those permitted by subparagraph (c) emitted by the petitioner into the community, in 5-decibel increments measured in Leq, shown on the map of the community.
- E) The number of residences exposed to sound levels in excess of those permitted by subparagraph (c);
- F) A description of other significant sources of noise (mobile and stationary) and their location shown on the map of the community. 35 Ill. Adm. Code 901.105(d).

Scot Forge's Franklin Park facility is located at 9394 W. Belmont Avenue, which is a mixed land use location with commercial, industrial and residential properties. While Scot Forge did not provide a map locating the facility and surrounding area, the record indicates that a major railroad line on one side and a steel company on the other border the facility. The nearest

residence is located 100 yards from the facility. Although Scot Forge did not provide a detailed noise survey based on Leq measurements, Mr. McGillivray testified that A-weighted noise levels near the perimeter of the facility range from 92 to 93 decibels and the ambient noise is exceptionally high mainly because of the train traffic. Further, Scot Forge has not received any noise complaints from its neighbors.

Scot Forge was asked to inform the Board if any of the factors considered by the Board in granting site-specific relief to its Cicero plant had changed over the years. So far, Scot Forge has not submitted any new information regarding economic reasonableness and technical feasibility of complying with the rule of general applicability.

At this time, the Board proposes to grant the requested site-specific relief based upon the information in the record, and the Board's prior site-specific rulemakings concerning existing forging industry. Particularly, the Board relies on its prior decisions regarding economic reasonableness and technical feasibility. The records in a number of site-specific regulations concerning forging industry, including Scot Forge's Cicero operation clearly, indicate that while compliance is technically feasible, the extremely high cost of compliance makes it economically unreasonable. *See* R83-34.

Given that Scot Forge has been operating the Franklin Park facility over 10 years without any complaints, the Board believes that allowing the operation of seven hammers would not result in significant noise impact on the area residents. In this regard, the Board notes that prior rulemaking records indicate that noise from forging hammers does not endanger the hearing of area residents. Although Scot Forge requests that the hammers be allowed to operate from 6 a.m. to 11 p.m., the Board proposes to limit the operation of the hammers from 6 a.m. to 6 p.m. since the record indicates that noise from the operations comes between 6.00 a.m. and approximately 3:30 to 4 p.m. The Board invites Scot Forge to provide additional information for the record during the first-notice period, if Scot Forge believes that the change in the hours of operation should be until 11 p.m.

# **Vaughan and Bushnell Manufacturing Company**

Vaughan and Bushnell filed comments seeking revision of the site-specific rule at Section 901.121, which applies to its facility located at the intersection of Davis and Main Streets, Bushnell, Illinois. Vaughan and Bushnell requests that the Board revise Section 901.121 to allow the facility to operate 11 hammers at any one time instead of 10 hammers allowed under the current rule. PC 4. Vaughan and Bushnell also seek a correction in the hours of operation from "6 a.m. to 1:30 p.m." to "6 a.m. to 1:30 a.m." in the site-specific rule.

**Discussion.** In reviewing the Board's opinion and order in Vaughan and Bushnell's site-specific rule (R83-32, May 2, 1985), a misprint was found. The misprint inadvertently changed the allowed hours of operation from "6 a.m. to 1:30 a.m." to "6 a.m. to 1:30 p.m." in the rule text. The Board will therefore make that change. However, the Board notes that other than requesting that the number of hammers be changed from ten to eleven at Section 901.121(b), Vaughan and Bushnell's comments do not provide any information regarding the use of an additional hammer or the impact on noise emissions. In light of this, the Board declines to make

the requested change, as the record does not support the changes. The Board invites Vaughan and Bushnell to provide additional information for the record during the first-notice period, if Vaughan and Bushnell believes that the additional hammer is necessary.

#### **Intermet Decatur Foundry**

Intermet Foundry, which is also known as Wagner Casting, filed comments requesting that the Board repeal the site-specific rule applicable to Wagner Casting at Section 901.113. Intermet Foundry's comments note that forging operation at the facility ceased prior to 1984 and all equipment associated with the forging operations has since been dismantled and either sold or discarded. PC 7 and 9. Further, Intermet Foundry states that it has no intention of reestablishing forging operation at the Decatur facility.

**<u>Discussion.</u>** The Board appreciates Intermet Foundry's comments and proposes to repeal the site-specific rule applicable to Wagner castings at Section 901.113.

#### **Other Issues**

Mr. Chinn's comments on behalf of the AGO presented two issues for the Board. First, Mr. Chinn requested that the Board reconsider its decision not to adopt a state-wide rule to limit the hours of operation for lawn care equipment and set sound limits for such equipment. PC 11. Mr. Chinn submitted an ordinance from the Village of Morton Grove's municipal code that regulates the noise levels, and hours of operation of lawn equipment to support the AGO's position. Second, Mr. Chinn also suggested that the Board adopt a five-minute measurement period rather than the current one-hour measurement period. PC 1 at 2.

#### **Discussion**

The Board appreciates Mr. Chinn's comments; however, the Board declines to limit the hours of operation for lawn care equipment since such a limitation is beyond the scope of this rulemaking. As to Mr. Chinn's second suggestion, the Board addressed that issue in a previous rulemaking docket. *See* Noise Rule Update: Amendments to 35 Ill. Adm. Code 900 and 903, R03-8 (June 5, 2003). In that rulemaking the Board adopted a ten-minute interval measurement period and replaced the Board's prior rule requiring a one-hour averaging for sound pressure measurements.

#### PROPOSAL OVERVIEW

The Board will explain each section of the rule in the following discussion.

# 35 Ill. Adm. Code 910: Measurement Procedures for the Enforcement of 35 Ill. Adm. Code 900 and 901

The proposed new Part 910 sets forth the measurement procedures for enforcing the Board's noise standards in Parts 900 and 901. These procedures are essentially based upon the Agency's noise measurement protocols at 35 Ill. Adm. Code 951. The Board has made a number

of substantive changes to the Agency's measurement protocols to reflect the recommendations of the IDNR's noise reports. A brief description of the proposed procedures is provided below.

## Section 910.100 General

This Section sets forth the scope of the proposed noise measurement procedures and techniques. The Board has deleted references to "Agency personnel," since the measurement procedures are applicable to any person conducting noise measurements to demonstrate compliance with Parts 900 and 901.

## **Section 910.101 Personnel Qualification**

The Board decided not to incorporate the Agency's personnel qualification requirements in the instant proposal since they are specific to Agency personnel, and also because the requirements are not based on any State approved licensing or certification. (*See infra* @)

## **Section 910.102 Instrumentation**

This section sets forth the requirements for sound measuring equipment, sound indicating devices such as magnetic tape recorder or graphic level recorder, and weather measuring instruments. These requirements are the same as those in Part 951, except for the updated references to the American National Standards Institute (ANSI), and the International Electrotechnical Commission (IEC) standards. *See* changes at Section 910.102(a).

## Section 910.103 Definitions

The Board has moved all pertinent definitions found in the Agency's regulations to 35 Ill. Adm. Code 900.103, which contains the definitions applicable to the Board's noise regulations.

#### Section 910.104 Measurement Techniques for 35 Ill. Adm. Code 900

This section clarifies that while sound pressure level measurements are not required to establish a violation of the Board's nuisance noise standard at 35 Ill. Adm. Code 900.102, such measurements may be used as corroborating evidence. In this regard, the proposal requires a person conducting sound measurements to comply with the instructions of the sound measurement equipment manufacturer. Further, Section 910.104 sets forth that the measurement techniques proposed at Section 910.105 may be used as guidance. While the proposed approach deviates from the detailed sound measurement requirements specified in Part 951, the Board believes that the proposed approach is consistent with the Board's precedence and case law concerning nuisance noise complaints. (See infra @)

# Section 910.105 Measurement Techniques for 35 Ill. Adm. Code 901

The measurement techniques for obtaining sound pressure levels to demonstrate compliance with Part 901 standards are essentially the same as the Agency's regulations, except for the deletion of measurement procedures for steady sound, fluctuating sound, intermittent

sound, impulsive sound, and quasi steady sound set forth at Sections 910.105 (d)(3) through (d)(7), respectively. The Board notes that these measurement procedures are addressed by the measurement techniques for highly-impulsive sound set forth at Section 910.107.

#### **Section 910.106 Protocols for Determination of Sound Levels**

This section sets forth a systematic set of procedures for determination of equivalent sound level ( $L_{eq}$ ) using as an example the determination of a 1-hour  $L_{eq}$  corrected for background ambient sound. The proposed protocols are based on the recommendations of the Department's noise study entitled "Proposed Revisions to Property Line Noise Source: Measurement Procedures." These protocols prescribe detailed data collection requirements, and equations for averaging sound data on an energy basis. In addition, Section 910.106 prescribes procedures correcting the raw equivalent sound level for background ambient sound. The proposal also prescribes detailed procedures for measuring background ambient sound that include both direct measurement methods and the use of Tables of long-term background ambient.

# Section 910.107 Measurement Techniques for Highly-Impulsive Sound under 35 Ill. Adm. Code 901.104

Two equally valid methods are proposed for measuring highly-impulsive sound. The first method, termed the "General Method" at Section 901.107(b), provides for A-weighted  $L_{eq}$  measurement using the procedures set forth in Sections 910.105 and 910.106. The second method, which is referred to as the "Controlled Test Method" at Section 910.107(c), involves the determination of total sound exposure per hour. Again, the Board notes that the proposed protocols are based on the Department's noise study.

# 35 Ill. Adm. Code 901: Sound Emission Standards and Limitations for Property Line-Noise-Sources

The proposed changes to Part 901 replace the existing Standard Land Use Coding Manual (SLUCM) based land classification, and revise the impulsive sound standards. A brief description of the proposed changes is provided below.

#### Section 901.101 Classification of Land According to Use

The changes proposed to this section update the existing land use classification, which is based on SLUCM codes, with the Land-Based Classification Standards (LBCS) codes. The Board notes that the LBCS, which replaced the 1965 SLUCM, provides a consistent model for classifying land uses based on a multi-dimensional land use classification model. While the LBCS provides for classification of land use based on activity, function, structure type, site development character, and ownership, the Board is proposing to update the SLUCM codes with the LBCS function codes. In this regard, the Board believes that the LBCS functional categories are very similar to the SLUCM categories listed in the existing regulations at Part 901, Appendix B.

Consistent with the changes proposed to Section 901.101, the instant proposal also replaces the SLUCM Codes Table in Part 901, Appendix B with the LBCS function codes. For more detailed information concerning the LBCS, the Board directs interested persons to review the LBCS executive summary or visit the LBCS web page (<a href="www.planning.org/LBCS">www.planning.org/LBCS</a>).

## **Section 901.104 Highly-Impulsive Sound**

The proposed changes to Section 901.104 clarify that the impulsive sound standards are based on 1-hour A-weighted equivalent sound levels, and revise the numeric standards. The revisions to the numeric limits for highly-impulsive sound are based on the recommendations of the Department's Impulse Noise Study. These revisions are intended to bring highly impulsive noise standards into conformity with the standards set forth in Sections 901.102 and 901.103 in terms of the effective community response. A more detailed discussion of the proposed revisions may be found in proposal.

## **CONCLUSION**

Based on the record developed to date in this matter, the Board finds that adoption of the following rulemaking for the purposes of first notice is warranted. As four hearings have been held on the proposal, the Board does not presently plan to hold an additional hearing unless one is requested during the first-notice period under Section 5-40 of the Administrative Procedure Act.

#### **ORDER**

The Board directs the Clerk to cause the filing of the following with the Secretary of State for first-notice publication in the *Illinois Register*.

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE H: NOISE CHAPTER I: POLLUTION CONTROL BOARD

# PART 901 SOUND EMISSION STANDARDS AND LIMITATIONS FOR PROPERTY LINE-NOISE-SOURCES

| Classification of Land According to Use |
|---|
| Sound Emitted to Class A Land           |
| Sound Emitted to Class B Land           |
| <u>Highly - Impulsive Sound</u>         |
| Impact Forging Operations               |
| Prominent Discrete Tones                |
| Exceptions                              |
| Compliance Dates for Part 901           |
|   |

| 901.109    | <u>Highly -</u> Impulsive Sound from Explosive Blasting                        |
|------------|--|
| 901.110    | Amforge Operational Level  |
| 901.111    | Modern Drop Forge Operational Level  |
| 901.112    | Wyman-Gordon Operational Level   |
| 901.113    | Wagner Casting Site-Specific Operational Level                                 |
| 901.114    | Moline Forge Operational Level   |
| 901.115    | Cornell Forge Hampshire Division Site-Specific Operational Level               |
| 901.116    | Forgings and Stampings, Inc. Operational Level                                 |
| 901.117    | Rockford Drop Forge Company Operational Level                                  |
| 901.118    | Atlas Forgings Division of Scot Forge Operational Level                        |
| 901.119    | Clifford-Jacobs Operational Level  |
| 901.120    | C.S. Norcross Operational Level  |
| 901.121    | Vaughan & Bushnell Operational Level   |
|            |  |
| APPENDIX A | Old Rule Numbers Referenced  |
| APPENDIX B | <u>Land-Based Classification System</u> <u>Standard Land Use Coding System</u> |

AUTHORITY: Implementing Section 25 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/25 and 27] (III. Rev. Stat. 1985, ch. 111 1/2 pars. 1025 and 1027).

# Section 901.101 Classification of Land According to Use

- The land use classification system used for the purposes of applying numeric sound standards for this Part is based on the Land-Based Classification Standards (LBCS) (Jeer, Sanjay. 2001. Land-Based Classification Standards. Online, <a href="http://www.planning.org/LBCS">http://www.planning.org/LBCS</a>. American Planning Association: Chicago, <a href="Illinois">Illinois</a>). The LBCS applicable to this Part is set forth in Appendix B.
- b) a) Class A land <u>includes shall include</u> all land used as specified by <u>LBCS Codes</u> 1000 through 1340, 2410 through 2455, 5200 through 5230, 5500, 6100 through 6145, 6222, 6510 through 6530, 6568 through 6600. SLUCM Codes 110 through 190 inclusive, 651, 674, 681 through 683 inclusive, 691, 711, 762, 7121, 7122, 7123 and 921.

- c) b) Class B land includes shall include all land used as specified by LBCS Codes 2100 through 2336, 2500 through 2720, 3500 through 3600, 4220 through 4243, 5100 through 5160, 5300 through 5390, 5400, 6147, 6210 through 6221, 6300 through 6320, 6400 through 6430, 6560 through 6567, 6700 through 6830, 7100 through 7360. SLUCM Codes 397, 471 through 479 inclusive, 511 through 599 inclusive, 611 through 649 inclusive, 652 through 673 inclusive, 675, 692, 699, 7124, 7129, 719, 721, 722 except 7223, 723 through 761 inclusive except 7311, 769 through 790 inclusive, and 922.
- d) e) Class C land includes shall include all land used as specified by LBCS Codes 3100 through 3440, 4120 through 4180, 4210 through 4212, 4300 through 4347, 7400 through 7450, 8000 through 8500, and 9100 through 9520. SLUCM Codes 211 through 299 inclusive, 311 through 396 inclusive, 399, 411 except 4111, 412 except 4121, 421, 422, 429, 441, 449, 460, 481 through 499 inclusive, 7223 and 7311 used for automobile and motorcycle racing, and 811 through 890 inclusive.
- e) d) A parcel or tract of land used as specified by <u>LBCS SLUCM</u> Code <u>9100</u>, 9400, or <u>5500</u> 81, 83, 91, or 922, when adjacent to Class B or C land may be classified similarly by action of a municipal government having zoning jurisdiction over such land. Notwithstanding any subsequent changes in actual land use, land so classified <u>retains shall retain</u> such B or C classification until the municipal government removes the classification adopted by it.

| (Source: Amended  | at 29 Ill. Reg   | , effective  | ) |
|-------------------|------------------|--------------|---|
| g 001 10 <b>2</b> | 0 15 10 10       |              |   |
| Section 901.102   | Sound Emitted to | Class A Land |   |

a) Except as elsewhere <u>provided</u> in this Part <del>provided</del>, no person shall cause or allow the emission of sound during daytime hours from any property-line-noise-source located on any Class A, B or C land to any receiving Class A land which exceeds any allowable octave band sound pressure level specified in the following table, when measured at any point within such receiving Class A land, provided, however, that no measurement of sound pressure levels shall be made less than 25 feet from such property-line-noise-source.

Octave Band Center
Frequency (Hertz)

Allowable Octave Band Sound Pressure Levels (dB) of Sound
Emitted to any Receiving Class A Land from

|      | Class C Land | Class B Land | Class A Land |
|------|--------------|--------------|--------------|
| 31.5 | 75           | 72           | 72           |
| 63   | 74           | 71           | 71           |
| 125  | 69           | 65           | 65           |
| 250  | 64           | 57           | 57           |
| 500  | 58           | 51           | 51           |
| 1000 | 52           | 45           | 45           |

| 2000 | 47 | 39 | 39 |
|------|----|----|----|
| 4000 | 43 | 34 | 34 |
| 8000 | 40 | 32 | 32 |

b) Except as <u>provided</u> elsewhere in this Part <u>provided</u>, no person shall cause or allow the emission of sound during nighttime hours from any property-line-noise-source located on any Class A, B or C land to any receiving Class A land which exceeds any allowable octave band sound pressure level specified in the following table, when measured at any point within such receiving Class A land, provided, however, that no measurement of sound pressure levels shall be made less than 25 feet from such property-line-noise-source.

Octave Band Center Allowable Octave Band Sound Pressure Levels (dB) of Sound Frequency (Hertz) Emitted to any Receiving Class A Land from

|      | Class C Land | Class B Land | Class A Land |
|------|--------------|--------------|--------------|
| 31.5 | 69           | 63           | 63           |
| 63   | 67           | 61           | 61           |
| 125  | 62           | 55           | 55           |
| 250  | 54           | 47           | 47           |
| 500  | 47           | 40           | 40           |
| 1000 | 41           | 35           | 35           |
| 2000 | 36           | 30           | 30           |
| 4000 | 32           | 25           | 25           |
| 8000 | 32           | 25           | 25           |

(Source: Amended at 27 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.103 Sound Emitted to Class B Land

Except as <u>provided</u> elsewhere in this Part <del>provided</del>, no person shall cause or allow the emission of sound from any property-line-noise-source located on any Class A, B or C land to any receiving Class B land which exceeds any allowable octave band sound pressure level specified in the following table, when measured at any point within such receiving Class B land, provided, however, that no measurement of sound pressure levels shall be made less than 25 feet from such property-line-noise-source.

| Octave Band Center<br>Frequency (Hertz) |              | Band Sound Pressure Leany Receiving Class B | ` '          |
|---|--------------|---|--------------|
|   | Class C Land | Class B Land                                | Class A Land |
| 31.5                                    | 80           | 79  | 72           |
| 63                                      | 79           | 78  | 71           |
| 125                                     | 74           | 72  | 65           |

| 250  | 69 | 64 | 57 |
|------|----|----|----|
| 500  | 63 | 58 | 51 |
| 1000 | 57 | 52 | 45 |
| 2000 | 52 | 46 | 39 |
| 4000 | 48 | 41 | 34 |
| 8000 | 45 | 39 | 32 |

(Source: Amended at 27 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 901.104 <u>Highly-Impulsive Sound</u>

Except as <u>provided</u> elsewhere in this Part <del>provided</del>, no person shall cause or allow the emission of <u>highly-impulsive</u> sound from any property-line-noise-source located on any Class A, B, or C land to any receiving Class A or B land which exceeds the allowable A-weighted sound levels, measured with fast dynamic characteristic, specified in the following table when measured <u>in</u> accordance with the procedure of 35 Ill. Adm. Code 900.103 at any point within such receiving Class A or B land, provided, however, that no measurement of sound levels shall be made less than 25 feet from such property-line-noise-source.

| Classification o | f  |
|------------------|----|
| Land on which    | ı  |
| Property-Line    |    |
| Noise-Source:    | is |
| Located          |    |

Allowable A-weighted Sound Levels in Decibels of <u>Highly-</u> Impulsive Sound Emitted to Receiving Class A or B Land

|              | Class B Land | Daytime | Class A Land<br>Nighttime |
|--------------|--------------|---------|---------------------------|
| Class A Land | 50 47        | 50 47   | 45— <u>37</u>             |
| Class B Land | 57 54        | 50 47   | 45— <u>37</u>             |
| Class C Land | 61 58        | 56 53   | 46—43                     |

(Source: Amended at 29 Ill. Reg. \_\_\_\_\_\_, effective \_\_\_\_\_)

Section 901.105 Impact Forging Operations

- a) For purposes of this <u>Section</u> rule only the following are applicable:
  - 1) Daytime hours <u>means shall mean</u> any continuous 16-hour period between 6:00 a.m. and 11:00 p.m. local time; and
  - Nighttime hours means shall mean those 8 hours between 10:00 p.m. and 7:00 a.m. which are not part of the 16 continuous daytime hours.
  - 3) The reference time for  $L_{eq}$ , as defined in 35 III. Adm. Code 900.101 is one hour.

- 4) New Impacting Forging Operation is that property-line-noise-source comprised of impact forging operation on which construction began after September 1, 1982.
- 5) Existing Impact Forging Operation is that property-line-noise-source comprised of impact forging operations which are in existence on September 1, 1982,
- b) Emission Limitations for New Impact Forging Operation. No impact forging operation shall cause or allow the emission of impulsive sound to any receiving Class A or B land which exceeds the allowable sound levels specified in the following table when measured at any point within such receiving land, provided however, that no measurement of sound levels shall be made less than 25 feet from such new impact forging operation's property-line.

Allowable <u>Highly-</u> Impulsive Sound Levels ( $\underline{L_{eq}}$ ) in <u>Decibels</u> Emitted To Class A or B Land from New Impact Forging Operation

Class B Land Class A Land

Daytime Nighttime 59.5 Leq 53.5 Leq 48.5 Leq

c) Limitations for Existing Impact Forging Operation

No existing impact forging operation shall cause or allow the emission of <u>highly</u>-impulsive sound to any receiving Class A or B land which exceeds the allowable sound levels specified in the following table, when measured at any point within such receiving land, provided however, that no measurement of sound levels shall be made less than 25 feet from such existing impact forging operation's property-line, unless such forging operation is granted a permanent site specific allowable operational level pursuant to subparagraph (d).

Allowable <u>Highly-</u> Impulsive Sound Levels ( $\underline{L_{eq}}$ ) in <u>Decibels</u> Emitted To Class A or B Land from Existing Impact Forging Operation

Class B Land Class A Land

Daytime Nighttime 64.5 Leq 58.5 Leq 53.5 Leq

d) Site Specific Allowable Operational Level for Existing Impact Forging Operation

- 1) An existing impact forging operation which does not comply with subparagraph (c) may seek a permanent site specific allowable operational level from the Board. A permanent site specific level is that level of operation allowed petitioner after review and approval by the Board and after implementation of <u>abatement abated</u> measures, if any, approved by the Board.
- 2) Any existing impact forging operation seeking a permanent site specific operational level must submit as its petition the following:
  - A) The location of the petitioner, a description of the surrounding community, and a map locating the petitioner within the community;
  - B) A description of the petitioner's operations, the number and size of the petitioner's forging hammers, the current hours of hammer operation, the approximate number of forgings manufactured during each of the three prior calendar years and the approximate number of hammer blows used to manufacture the forgings.
  - C) A description of any existing sound abatement measure.
  - D) The sound levels in excess of those permitted by subparagraph (c) emitted by the petitioner into the community, in 5 decibel increments measured in  $\underline{L}_{eq}$  Leq, shown on the map of the community.
  - E) The number of residences exposed to sound levels in excess of those permitted by subparagraph (c);
  - F) A description of other significant sources of noise (mobile and stationary) and their location shown on the map of the community;
  - G) A description of the proposed operational level and proposed physical abatement measures, if any, a schedule for their implementation and their costs;
  - H) The predicted improvement in community sound levels as a result of implementation of the proposed abatement measures; and
  - A description of the economic and technical considerations which justify the permanent site specific allowable operational level sought by petitioner.

- 3) An existing impact forging operation seeking a permanent site specific operational level shall prepare and file its petition with the Board and Agency as applicable no later than December 1, 1983.
- 4) The Agency shall prepare a written evaluation regarding each petition seeking a permanent site specific operational level and shall file said evaluation within ninety (90) days following receipt of the petition with both the Board and the petitioner.
- e) Land Use Classifications Preserved

The land use classifications in effect within a one-mile radius of an existing impact forging operation on September 1, 1982 <u>remains shall remain</u> the applicable land use classification for enforcement of these rules against an existing forging operation and any future modification thereof, regardless of actual subsequent changes in land use unless such actual changes would impose less restrictive limitations on the impact forging operations.

f) Site-Specific Operational Levels. Each individual existing forging operation identified in Sections 901.110, 901.111 and 901.112 must comply with the site-specific operational level defined, or is otherwise subject to Section 901.105(c).

| (Source: Amended at | 27 Ill. Reg      | , effective | ) |
|---------------------|------------------|-------------|---|
| Section 901.106     | Prominent Discre | ete Tones   |   |

- a) No person shall cause or allow the emission of any prominent discrete tone from any property-line-noise-source located on any Class A, B or C land to any receiving Class A, B or C land, provided, however, that no measurement of one-third octave band sound pressure levels shall be made less than 25 feet from such property-line source.
- b) This rule shall not apply to prominent discrete tones having a one-third octave band sound pressure level 10 or more dB below the allowable octave band sound pressure level specified in the applicable tables in Sections 901.102 through 901.104 for the octave band which contains such one-third octave band. In the application of this sub-section, the applicable numeric standard table for sound emitted from any existing property-line-noise-source to receiving Class A land, for both daytime and nighttime operations, is shall be found in Section 901.102(a).

| (Source: Amended at | 29 Ill. Reg. | , effective) |
|---------------------|--------------|--------------|
| Section 901.107     | Exceptions   |              |

- a) Sections 901.102 through 901.106 inclusive <u>does shall</u> not apply to sound emitted from land used as specified by <u>LBCS Codes 1100, 6600 and 5500 SLUCM Codes 110, 140, 190, 691, and 742 except 7424 and 7425.</u>
- b) Sections 901.102 through 901.106 inclusive <u>does shall</u> not apply to sound emitted from emergency warning devices and unregulated safety relief valves.
- c) Sections 901.102 through 901.106 inclusive <u>does shall</u> not apply to sound emitted from lawn care maintenance equipment and agricultural field machinery used during daytime hours. For the purposes of this sub-section, grain dryers operated off the farm <u>are shall</u> not <u>be</u> considered agricultural field machinery.
- d) Sections 901.102 through 901.106 inclusive <u>do shall</u> not apply to sound emitted from equipment being used for construction.
- e) Section 901.102(b) <u>do shall</u> not apply to sound emitted from existing property-line-noise-sources during nighttime hours, provided, however, that sound emitted from such existing property-line-noise-sources <u>are shall</u> be governed during nighttime hours by the limits specified in Section 901.102.
- f) Sections 901.102 through 901.106 inclusive <u>do shall</u> not apply to the operation of any vehicle registered for highway use while such vehicle is being operated within any land used as specified by Section 901.101 in the course of ingress to or egress from a highway.
- g) Sections 901.102 through 901.106 inclusive <u>do shall</u> not apply to sound emitted from land used as specified by <u>LBCS Codes 5130 and 5140 SLUCM Codes 7223 and 7311</u> when used for automobile and motorcycle racing; and, any land used for contests, rallies, time trials, test runs or similar operations of any self-propelled device, and upon or by which any person is or may be transported or drawn, when such self-propelled device is actually being used for sport or recreation and is actually participating in an activity or event organized, regulated, and supervised under the sponsorship and sanction of a club, organization or corporation having national or statewide recognition; provided, however, that the exceptions granted in this subparagraph <u>do shall</u> not apply to any automobile and motorcycle race, contest, rally, time trial, test run or similar operation of any self-propelled device if such event is started between the hours of 10:30 p.m. to 7:00 a.m., local time weekdays, or between the hours of 11:00 p.m. and 7:00 a.m., local time, weekend days.
- h) Section 901.104 shall not apply to impulsive sound produced by explosive blasting activities conducted on any Class C land used as specified by <u>LBCS</u>

  <u>Codes 8300 and 8500 SLUCN codes 852 and 854</u>, but such operations shall be governed by Section 901.109.

| i) | Sections 901.102 through 901.106 inclusive, do shall not apply to sound emitted |
|----|---|
|    | from snowmobiles.   |
|    |   |

| (Source: | Amended at 27 Ill. | Reg. | , effective) |
|----------|--------------------|------|--------------|
|          |                    |      |              |

Section 901.108 Compliance Dates for Part 901

- a) Except as provided in subparagraphs (g), (i), and (j), every owner or operator of a new property-line-noise-source <u>must shall</u> comply with the standards and limitations of this Part on and after August 10, 1973.
- b) Except as otherwise provided in this rule, every owner or operator of an existing property-line-noise-source <u>must shall</u> comply with the standards and limitations of this Part on and August 10, 1974.
- c) Every owner or operator of an existing property-line-noise-source who emits sound which exceeds any allowable octave band sound pressure level of Section 901.102 or 901.103 by 10 dB or more in any octave band with a center frequency of 31.5 Hertz, 63 Hertz or 125 Hertz must shall comply with the standards and limitations of this Part on and after February 10, 1975.
- d) Except as provided in subparagraphs (g) and (h), every owner or operator of an existing property-line-noise-source required to comply with Section 901.104 <u>must shall</u> comply with the standards and limitations of this Part on and after February 10, 1975.
- e) Every owner or operator of an existing property-line-noise-source required to comply with Section 901.106 <u>must shall</u> comply with the standards and limitations of this Part on and after February 10, 1975.

# f) Repealed

- <u>f)g</u>) Every owner or operator of Class C land now and hereafter used as specified by <u>LBCS Code 4120 SLUCM Code 4112</u> shall have until August 10, 1976 to bring the sound from railroad car coupling in compliance with Section 901.104.
- g)h) Existing impact forging operations as defined in Section 901.105 which do not seek permanent site specific allowable operational levels <u>must shall</u> comply with Section 901.105 by December 1, 1983. Those seeking permanent site specific allowable operational levels pursuant to Section 901.105(d) <u>must shall</u> comply as of the effective date of the site specific rule granted or denied.
- <u>h)i)</u> Every owner or operator of Class C land now or hereafter used as specified by <u>LBCS Code 3310 SLUCM Code 291 must shall</u> comply with the standards and limitations of this Part on August 10, 1975.

Highly-Impulsive Sound From Explosive Blasting

<u>i)</u>;) Every owner or operator of Class C land now or hereafter used as specified by <u>LBCS Code 5130 and 5140</u> <u>SLUCM Code 7223 and 7311</u> when used for automobile and motorcycle racing shall comply with the standards and limitations of this Part on February 10, 1976.

| (Source: | Amended at 27 Ill. | Reg | : | , effective |  |
|----------|--------------------|-----|---|-------------|--|
|          |                    |     |   |             |  |

a) During the daytime hours, that cover the period after sunrise and before sunset, no person shall cause or allow any explosive blasting conducted on any Class C land used as specified by LBCS Codes 8300 and 8520 SLUCM Codes 852 and 854 so as to allow the emission of sound to any receiving Class A or B land which exceeds the allowable outdoor C-weighted sound levels, measured with the slow dynamic characteristic, specified in the following table, when measured at any point, of reasonable interference with the use of such receiving Class A or B land.

Allowable Outdoor C-Weighted
Sound Exposure Levels in Decibels of Explosive
Blasting Sounds Emitted to Receiving
Class A or B Land from Any Class C Land
Used as Specified by LBCS Code 8300 or 8500 SLUCM Code 852 or 854

Receiving Class A Land 109–107

Section 901.109

Receiving Class B Land 114–112

The allowable sound exposure level limits in the above table must be lowered by three decibels (3 dB) for each doubling of the number of blasts during the day or night.

b) Compliance with outdoor peak sound pressure level limits in the following table shall constitute prima facie level limits of this rule when measured on such receiving Class A or B land.

Equivalent Maximum Sound Pressure Level (Peak) Limits in Decibels

| Lower Frequency Limit of        | Receiving Class A Land | Receiving Class B Land |
|---------------------------------|------------------------|------------------------|
| Measuring System for Flat       | (dB)                   | (dB)                   |
| Response, a Variation from      |                        |                        |
| Linear Response of + or -       |                        |                        |
| 3dB (Hz)                        |                        |                        |
| <del>&lt;00.1</del>             | <del>135</del>         | <del>140</del>         |
| < 2.0 but greater than 0.1      | 133 <del>2</del>       | <u>133</u> 7           |
| $\leq$ 6.0 but greater than 2.0 | <del>130</del>         | 135<br>135             |

The allowable equivalent maximun sound pressure level limits in the above table

shall be lowered by two decibels (2 dB) for each doubling of the number of blasts during the day or night.

- During the period defined by (1) the beginning of the nighttime hours (10:00 pm) or sunset, whichever occurs earlier and (2) ending of the nighttime hours (7:00 am) or, after sunset and before sunrise, whichever occurs later, the allowable sound level limits in subsections subparagraphs (a) and (b) must shall be reduced by 10 decibels decibles except in emergency situations where rain, lightning, other atmospheric conditions, or operator or public safety requires unscheduled nighttime hour explosive blasting.
- d) Persons causing or allowing explosive blasting to be conducted on any Class C land used as specified by <u>LBCS code 8300 or 8500 SLUCM code 852 or 854 must shall</u> notify the local public of such blasting prior to its occurrence, except when emergency situations require unscheduled blasting, by publication of a blasting schedule, identifying the work days or dates and time periods when explosives are expected to be detonated, at least every three months in a newspaper of general circulation in the locality of the blast site.

effective

(Source: Amended at 27 III Reg

Island, Illinois must shall:

| (2001001 11111 | ,   |
|----------------|---|
| Section 901.1  | 10 Amforge Operational Level  |
| Amforge Divi   | sion of Rockwell International located at 119th Street, Chicago, Illinois must shall:   |
| a)             | Operate only ten forging hammers at any one time; and   |
| b)             | Operation of its forging hammers is limited to the hours of 7:00 a.m. through 11:00 p.m., with occasional operations beginning at 6:00 a.m. and ending at midnight, Monday through Saturdays; and |
| c)             | <u>Install sound</u> Sound absorptive materials shall be installed on each of the forging hammer structures as each is routinely overhauled, but no later than January 1, 1987.                   |
| (Source: Ame   | ended at 27 Ill. Reg, effective)  |
| Section 901.1  | 11 Modern Drop Forge Operational Level  |
| Modern Drop    | Forge Company located at 139th Street and Western Avenue in Blue  |

a) Operate only twenty-one forging hammers at any one time; and

| b) Operate its forging hammers only during the hours of 6:00 a.m. through midnight Mondays through Fridays, and 6:30 a.m. until 7:30 p.m. on Saturdays.  |
|--|
| (Source: Amended at 27 Ill. Reg, effective)  |
| Section 901.113 Wagner Casting Site Specific Operational Level   |
| Wagner Casting Company and future owners of the forging facility located at the southeast corner of Sangamon and Jasper Streets in Decatur, Illinois, must comply with the following site specific operational level or are otherwise subject to Section 901.105(c): |
| a) Shall operate no more than nine forging hammers at any one time; and  |
| b) Shall operate its forging hammers only between the hours of 5:00 a.m. Monday through 9:00 p.m. Saturday.  |
| (Source: Repealed at 27 Ill. Reg, effective)   |
| Section 901.118 Atlas Forgings Division of Scot Forge Company – Franklin Park Division Operational Level   |
| Atlas Forge Division of Scot Forge and future owners of the forging facility located at <u>9394 W. Belmont Avenue</u> , Franklin Park <u>1501 South 55th Court</u> , Cicero, Illinois, <u>must shall</u> comply with the following site-specific operational level:  |
| a) Operate no more than <u>seven three</u> forging hammers at any one time; and  |
| b) Operate its forging hammers only between the hours of 6:00 a.m. and 6:00 p.m. Monday through Saturday.  |
| (Source: Amended at 27 Ill. Reg, effective)  |
| Section 901.121 Vaughan & Bushnell Operational Level   |
| Vaughan & Bushnell Manufacturing Company and the future owners of the forging facility located at the intersection of Davis and Main Streets, Bushnell, Illinois, <u>must shall</u> comply with the following site-specific operational level:                       |
| a) Operate no more than ten hammers at any one time; and   |
| b) Operate its forging hammers only between the hours of 6:00 a.m. and 1:30 <u>a.m.</u> p.m. Monday through Saturday.  |
| (Source: Amended at 27 Ill. Reg, effective)  |

Section 901.APPENDIX B <u>Land-Based Classification Standards</u> Standard Land Use Coding System

| <u>LBCS</u>                          |                     |  |                             |
|--------------------------------------|---------------------|--|-----------------------------|
| Main<br>Category                     | Function<br>Code    | <u>Description</u>                                     | 35 IAC<br>901 Land<br>Class |
|                                      | 1000                | Decidence or accommodation functions                   |                             |
| <u>15</u>                            | 1000<br>1100        | Residence or accommodation functions Private household | <u>A</u>                    |
| tion                                 | 1100<br>1200        | Housing services for the elderly                       | 1                           |
| nuc                                  | 1200<br>1210        | Retirement housing services                            |                             |
| J uc                                 | $\frac{1210}{1220}$ | Congregate living services                             | †                           |
| atic                                 | $\frac{1220}{1230}$ | Assisted-living services                               | †                           |
| pou                                  | 1240                | Life care or continuing care services                  | †                           |
|                                      | $\frac{1210}{1250}$ | Skilled-nursing services                               | †                           |
| Residence or accommodation functions | 1300                | Hotels, motels, or other accommodation services        | † †                         |
| or 8                                 | 1310                | Bed and breakfast inn                                  | †                           |
| uce                                  | 1320                | Rooming and boarding                                   | $\frac{1}{2}$               |
| ide                                  | 1330                | Hotel, motel, or tourist court                         | <u>*</u>                    |
| Res                                  | 1340                | Casino hotel   | <u>A</u>                    |
|                                      |                     |  |                             |
|                                      | <u>2000</u>         | General sales or services                              |                             |
|                                      | <u>2100</u>         | Retail sales or service                                | <u>B</u>                    |
|                                      | <u>2110</u>         | Automobile sales or service establishment              |                             |
|                                      | 2111                | <u>Car dealer</u>                                      | 1                           |
| δl                                   | <u>2112</u>         | Bus, truck, mobile homes, or large vehicles            | ļ <u>†</u>                  |
| ice /                                | <u>2113</u>         | Bicycle, motorcycle, ATV, etc.                         | ļ <u>†</u>                  |
| or services                          | <u>2114</u>         | Boat or marine craft dealer                            | <u> </u>                    |
| _                                    | <u>2115</u>         | Parts, accessories, or tires                           | ļ <u>†</u>                  |
| lles                                 | <u>2116</u>         | Gasoline service                                       | ļ <u>†</u>                  |
| ol Se                                | <u>2120</u>         | Heavy consumer goods sales or service                  | ļ <u>†</u>                  |
| ner                                  | <u>2121</u>         | Furniture or home furnishings                          | ļ <u>†</u>                  |
| General sales                        | <u>2122</u>         | Hardware, home centers, etc.                           |                             |
|                                      | <u>2123</u>         | Lawn and garden supplies                               |                             |
|                                      | <u>2124</u>         | Department store, warehouse club or superstore         |                             |
|                                      | <u>2125</u>         | Electronics and Appliances                             |                             |
|                                      | <u>2126</u>         | Lumber yard and building materials                     |                             |
|                                      | <u>2127</u>         | Heating and plumbing equipment                         |                             |

| LBCS             |                  |  |              |
|------------------|------------------|--|--------------|
|                  |                  | <u>Description</u>                                     | 35 IAC       |
| Main<br>Category | Function<br>Code |  | 901 Land     |
|                  |                  |  | <u>Class</u> |
|                  | , \ <u>.</u>     |  |              |
|                  | <u>2130</u>      | Durable consumer goods sales and service               | <u> </u>     |
|                  | <u>2131</u>      | Computer and software                                  | <u> </u>     |
|                  | <u>2132</u>      | Camera and photographic supplies                       | ļ <u></u>    |
|                  | <u>2133</u>      | Clothing, jewelry, luggage, shoes, etc.                | ļ <u></u>    |
|                  | <u>2134</u>      | Sporting goods, toy and hobby, and musical instruments | <u> </u>     |
|                  | <u>2135</u>      | Books, magazines, music, stationery                    | <u> </u>     |
|                  | <u>2140</u>      | Consumer goods, other                                  | <u> </u>     |
|                  | <u>2141</u>      | <u>Florist</u>   | <u> </u>     |
|                  | <u>2142</u>      | Art dealers, supplies, sales and service               | <u> </u>     |
|                  | <u>2143</u>      | <u>Tobacco or tobacconist establishment</u>            | <u> </u>     |
|                  | <u>2144</u>      | Mail order or direct selling establishment             | <u> </u>     |
|                  | <u>2145</u>      | Antique shops, flea markets, etc.                      |              |
|                  | <u>2150</u>      | Grocery, food, beverage, dairy, etc.                   |              |
|                  | <u>2151</u>      | Grocery store, supermarket, or bakery                  | <u> </u>     |
|                  | <u>2152</u>      | Convenience store                                      |              |
|                  | <u>2153</u>      | Specialty food store                                   | <u></u>      |
|                  | <u>2154</u>      | Fruit and vegetable store                              |              |
|                  | <u>2155</u>      | Beer, wine, and liquor store                           | <u></u>      |
|                  | <u>2160</u>      | Health and personal care                               |              |
|                  | <u>2161</u>      | Pharmacy or drug store                                 |              |
|                  | <u>2162</u>      | Cosmetic and beauty supplies                           |              |
|                  | <u>2163</u>      | <u>Optical</u>   |              |
|                  | 2200             | Finance and Insurance                                  | ]            |
|                  | <u>2210</u>      | Bank, credit union, or savings institution             |              |
|                  | 2220             | Credit and finance establishment                       |              |
|                  | 2230             | Investment banking, securities, and brokerages         |              |
|                  | <u>2240</u>      | Insurance-related establishment                        |              |
|                  | <u>2250</u>      | Fund, trust, or other financial establishment          |              |
|                  | 2300             | Real estate, and rental and leasing                    | $\bar{1}$    |
|                  | 2310             | Real estate services                                   |              |
|                  | 2320             | Property management services                           |              |
|                  | 2321             | Commercial property-related                            | ]            |
|                  | 2322             | Rental housing-related                                 |              |
|                  | 2330             | Rental and leasing                                     | <u> </u>     |
| <u> </u>         | · ——             | ·  |              |

| LBCS                         |              |   |                   |
|------------------------------|--------------|---|-------------------|
|                              |              | <u>Description</u>  | 35 IAC            |
| Main<br>Category<br>Function | Code         |   | 901 Land<br>Class |
|                              |              |   | Class             |
| 2                            | 221          | Cour  |                   |
|                              | 2331<br>2332 | <u>Cars</u> <u>Leasing trucks, trailers, RVs, etc.</u>      | <u> </u>          |
|                              | 2333         | Recreational goods rental                                   |                   |
|                              | 2334         | Leasing commercial, industrial machinery, and equipment     | $\frac{1}{2}$     |
|                              | 2335         | Consumer goods rental                                       | <u> *</u>         |
| _                            | 2336         | Intellectual property rental (video, music, software, etc.) | В                 |
| 240                          |              | Business, professional, scientific, and technical services  | <u> </u>          |
|                              | 2410         | Professional services                                       | A                 |
| _                            | 2411         | Legal services  | _                 |
|                              | 2412         | Accounting, tax, bookkeeping, payroll services              |                   |
|                              | 2413         | Architectural, engineering, and related services            | 1                 |
| 2                            | 2414         | Graphic, industrial, interior design services               |                   |
| 2                            | 2415         | Consulting services (management, environmental, etc.)       |                   |
| 2                            | 2416         | Research and development services (scientific, etc.)        |                   |
| 2                            | 2417         | Advertising, media, and photography services                |                   |
| 2                            | 2418         | Veterinary services   | Ī                 |
| 2                            | 2420         | Administrative services                                     |                   |
| 2                            | 2421         | Office and administrative services                          |                   |
| 2                            | 2422         | Facilities support services                                 |                   |
| 2                            | 2423         | Employment agency   |                   |
| 2                            | 2424         | Business support services                                   |                   |
| 2                            | 2425         | Collection agency   |                   |
| 2                            | 2430         | Travel arrangement and reservation services                 | Ī                 |
|                              | 2440         | Investigation and security services                         |                   |
| 2                            | 2450         | Services to buildings and dwellings                         |                   |
| 2                            | 2451         | Extermination and pest control                              |                   |
| 2                            | 2452         | <u>Janitorial</u>   |                   |
|                              | 2453         | Landscaping   | $\frac{1}{2}$     |
|                              | 2454         | Carpet and upholstery cleaning                              | _                 |
|                              | 2455         | Packing, crating, and convention and trade show services    | <u>A</u>          |
| 250                          | 00           | Food services   | <u>B</u>          |
| 2                            | <u>2510</u>  | <u>Full-service restaurant</u>                              |                   |
| 2                            | 2520         | Cafeteria or limited service restaurant                     |                   |
| 2                            | <u>2530</u>  | Snack or nonalcoholic bar                                   | <u> </u>          |
| <u>2</u>                     | 2540         | Bar or drinking place                                       |                   |

| <u>LBCS</u>         |                  |   |                             |
|---------------------|------------------|---|-----------------------------|
| Main<br>Category    | Function<br>Code | <u>Description</u>  | 35 IAC<br>901 Land<br>Class |
|                     | <u>2550</u>      | Mobile food services  |                             |
|                     | <u>2560</u>      | <u>Caterer</u>  | 1 1                         |
|                     | <u>2570</u>      | Food service contractor   | <u></u>                     |
|                     | <u>2580</u>      | Vending machine operator  |                             |
|                     | <u> 2600</u>     | Personal services   | $\exists$                   |
|                     | 2700             | Pet and animal sales or service (except veterinary)             | $\overline{\downarrow}$     |
|                     | 2710             | Pet or pet supply store   | _                           |
|                     | <u>2720</u>      | Animal and pet services   | <u>B</u>                    |
|                     | 3000             | Manufacturing and wholesale trade                               |                             |
|                     | 3100             | Food, textiles, and related products                            | <u>C</u>                    |
|                     | 3110             | Food and beverages  |                             |
|                     | 3120             | Tobacco manufacturing establishment                             |                             |
|                     | 3130             | Textiles  |                             |
|                     | 3140             | Leather and allied products                                     | Ī                           |
|                     | 3200             | Wood, paper, and printing products                              | 1 <u>I</u>                  |
| (1)                 | 3210             | Wood products establishment                                     |                             |
| rade                | 3220             | Paper and printing materials                                    |                             |
| le ti               | <u>3230</u>      | Furniture and related products                                  |                             |
| and wholesale trade | 3300             | Chemicals, and metals, machinery, and electronics manufacturing | $\overline{1}$              |
| [ <u>w</u>          | 3310             | Petroleum and coal products                                     | <u> </u>                    |
|                     | 3320             | Chemicals, plastics, and rubber products                        | Ī                           |
| ing                 | 3330             | Nonmetallic mineral products                                    | <u> </u>                    |
| stur                | 3340             | Primary metal manufacturing                                     | Ī                           |
| nfaα                | 3350             | Machinery manufacturing   | l Ī                         |
| Manufacturing       | <u>3360</u>      | Electrical equipment, appliance, and components manufacturing   |                             |
|                     | 3370             | Transportation equipment, automobiles, etc.                     |                             |
|                     | 3400             | Miscellaneous manufacturing                                     | † †                         |
|                     | 3410             | Jewelry and silverware  |                             |
|                     | 3420             | Dolls, toys, games, and musical instruments                     | $\downarrow$                |
|                     | 3430             | Office supplies, inks, etc.                                     | _                           |
|                     | 3440             | Signs   | C                           |
|                     | 3500             | Wholesale trade establishment                                   | <u>B</u>                    |

| <u>LBCS</u>   |                  |   |                             |
|---|------------------|---|-----------------------------|
| Main<br>Category  | Function<br>Code | <u>Description</u>  | 35 IAC<br>901 Land<br>Class |
|   | <u>3510</u>      | <u>Durable goods</u>  |                             |
|   | <u>3520</u>      | Nondurable goods  | $\underline{\downarrow}$    |
|   | 3600             | Warehouse and storage services                                    | <u>*</u><br><u>B</u>        |
|   | <u>4000</u>      | Transportation, communication, information, and utilities         |                             |
|   | 4100             | <u>Transportation services</u>                                    |                             |
|   | <u>4110</u>      | Air transportation  | <u>U</u>                    |
|   | <u>4111</u>      | Air passenger transportation                                      |                             |
|   | <u>4112</u>      | Air freight transportation  |                             |
|   | <u>4113</u>      | Airport and support establishment                                 | $\underline{\downarrow}$    |
| rol.  | <u>4114</u>      | Aircraft and accessories  |                             |
| ties  | <u>4115</u>      | Other air transportation (including scenic, balloon, etc.)        | <u>U</u>                    |
| Till:   | <u>4120</u>      | Rail transportation   | <u>C</u>                    |
| l pu  | <u>4121</u>      | Rail passenger transportation                                     |                             |
| ), a  | <u>4122</u>      | Rail freight transportation                                       |                             |
| tior  | <u>4123</u>      | Rail transportation support establishment                         | <u> </u>                    |
| ma  | <u>4130</u>      | Road, ground passenger, and transit transportation                | <u></u>                     |
| lfor  | <u>4131</u>      | Local transit systemsmixed mode                                   | <u> </u>                    |
| i, i  | <u>4132</u>      | Local transit systemscommuter rail                                | <u> </u>                    |
| Transportation, communication, information, and utilities | 4133             | Local transit systemsbus, special needs, and other motor vehicles |                             |
|   | <u>4134</u>      | Interurban, charter bus, and other similar establishments         | 1 1                         |
|   | <u>4135</u>      | School and employee bus transportation                            |                             |
| 25  | <u>4136</u>      | Special purpose transit transportation (including scenic,         | 1                           |
| ion   |                  | sightseeing, etc.)  | <u> </u>                    |
| rtat  | <u>4137</u>      | Taxi and limousine service  |                             |
| ods   | <u>4138</u>      | Towing and other road and ground services                         |                             |
| ran   | <u>4140</u>      | Truck and freight transportation services                         |                             |
|   | 4141             | General freight trucking, local                                   |                             |
|   | 4142             | General freight trucking, long-distance                           |                             |
|   | 4143             | Freight trucking, specialized (used household and office goods)   |                             |
|   | 4144             | Freight trucking, specialized (except used goods)                 |                             |
|   | 4150             | Marine and water transportation                                   |                             |
|   | 4151             | Marine passenger transportation                                   |                             |

| LBCS            |                  |   |                                 |
|-----------------|------------------|---|---------------------------------|
|                 |                  | <b>Description</b>  | <u>35 IAC</u>                   |
| Main<br>ategory | Function<br>Code |   | 901 Land                        |
| Cate            |                  |   | Class                           |
|                 | · ·-             |   |                                 |
|                 | 4152             | Marine freight transportation                                     | <del> </del>                    |
|                 | 4153             | Marine port and harbor operations                                 | <del> </del>                    |
|                 | 4154             | Marine cargo handling and dry dock services                       | <u> </u>                        |
|                 | 4155             | Marine navigational and other services                            | ļ <u>Ļ</u>                      |
|                 | 4160             | Courier and messenger services                                    |                                 |
|                 | 4170             | <u>Postal services</u>  |                                 |
|                 | 4180             | Pipeline transportation   | <u>C</u>                        |
|                 | 4200             | Communications and information                                    |                                 |
|                 | 4210             | Publishing  | $\frac{\mathbf{C}}{\mathbf{C}}$ |
|                 | 4211             | Newspapers, books, periodicals, etc.                              | <u>C</u> <u>C</u> <u>C</u>      |
|                 | 4212             | Software publisher  |                                 |
|                 | 4220             | Motion pictures and sound recording                               | <u>B</u>                        |
|                 | 4221             | Motion Picture and video production, publishing, and distribution |                                 |
|                 | <u>4222</u>      | Motion picture viewing and exhibition services                    | 1 1                             |
|                 | 4223             | Sound recording, production, publishing, and distribution         |                                 |
|                 | 4230             | Telecommunications and broadcasting                               | 1 T                             |
|                 | <u>4231</u>      | Radio and television broadcasting                                 | 1 T                             |
|                 | 4232             | Cable networks and distribution                                   | 1 T                             |
|                 | 4233             | Wireless telecommunications                                       | Ī                               |
|                 | 4234             | Telephone and other wired telecommunications                      | 1 T                             |
|                 | 4240             | Information services and data processing industries               | T T                             |
|                 | 4241             | Online information services                                       | $\downarrow$                    |
|                 | 4242             | Libraries and archives  | _                               |
|                 | 4243             | News syndicate  | <u>B</u>                        |
|                 | 4300             | Utilities and utility services                                    | <u>C</u>                        |
|                 | 4310             | Electric power  |                                 |
|                 | 4311             | Hydroelectric   |                                 |
|                 | 4312             | Fossil  |                                 |
|                 | <u>4313</u>      | Nuclear   |                                 |
|                 | 4314             | Alternative energy sources  |                                 |
|                 | 4320             | Natural gas, petroleum, fuels, etc.                               |                                 |
|                 | 4330             | Water, steam, air conditioning supply                             |                                 |
|                 | 4331             | Drinking water  |                                 |
|                 | 4332             | Irrigation and industrial water supply                            |                                 |
|                 |                  |   |                                 |

| <u>LBCS</u>                         |                            |  |  |
|-------------------------------------|----------------------------|--|--|
| Main<br>Category                    | Function<br>Code           | <u>Description</u>   | 35 IAC<br>901 Land<br>Class            |
|                                     | 4333                       | Air conditioning and steam supply  | <u></u>                                |
|                                     | <u>4340</u>                | Sewer, solid waste, and related services   | <u> </u>                               |
|                                     | <u>4341</u>                | Hazardous waste collection   | 1                                      |
|                                     | <u>4342</u>                | Hazardous waste treatment and disposal   | 1                                      |
|                                     | <u>4343</u>                | Solid waste collection   | <u>↓</u> ↓ ↓ ↓ ↓ <u>↓</u>              |
|                                     | 4344                       | Solid waste combustor or incinerator   | Ī                                      |
|                                     | 4345                       | Solid waste landfill   | Ī                                      |
|                                     | 4346                       | Waste treatment and disposal   | $\downarrow$                           |
|                                     | 4347                       | Septic tank and related services   | _                                      |
|                                     |                            |  | <u>C</u>                               |
|                                     | <u>5000</u>                | Arts, entertainment, and recreation  |  |
|                                     | <u>5100</u>                | Performing arts or supporting establishment  | <u>B</u>                               |
|                                     | <u>5110</u>                | Theater, dance, or music establishment   |  |
|                                     | <u>5120</u>                | Sports team or club  |  |
|                                     | <u>5130</u>                | Racetrack establishment  | <u> </u>                               |
|                                     | <u>5140</u>                | Promoter of performing arts, sports, and similar events  | $\frac{1}{\sqrt{2}}$                   |
|                                     | <u>5150</u>                | Agent for management services  |  |
| ion                                 | <u>5160</u>                | <u>Independent artist, writer, or performer</u>  | <u>B</u>                               |
| reat                                | <u>5200</u>                | Museums and other special purpose recreational institutions                                      | <u>A</u>                               |
| rec                                 | <u>5210</u>                | Museum   |  |
| pur                                 | <u>5220</u>                | Historical or archeological institution  | <u>↓</u>                               |
| ıt, a                               | <u>5230</u>                | Zoos, botanical gardens, arboreta, etc.  | <u>A</u>                               |
| mer                                 | <u>5300</u>                | Amusement, sports, or recreation establishment   | <u>B</u>                               |
| ain                                 | <u>5310</u>                | Amusement or theme park establishment  |  |
| tert                                | <u>5320</u>                | Games arcade establishment Casino or gambling establishment                                      | ı                                      |
| Arts, entertainment, and recreation | <u>5330</u>                | Miniature golf establishment   | <u> </u>                               |
| Arts                                | <u>5340</u>                |  | <u>+</u>                               |
| <b>√</b> I                          | <u>5350</u><br><u>5360</u> | Skiing  Marina or vachting club facility operators   | <u> </u>                               |
|                                     |                            | Marina or yachting club facility operators  Fitness, recreational sports, gym, or athletic club, | <u> </u>                               |
|                                     | 5370<br>5380               | 2 00   | $\frac{\perp}{\underline{\downarrow}}$ |
|                                     | <u> </u>                   | Bowling, billiards, pool, etc.  Sketing rinks, roller sketes, etc.                               |  |
|                                     | 5390<br><b>5400</b>        | Skating rinks, roller skates, etc.  Camps, camping, and related establishments                   | В                                      |
|                                     | <u>5500</u>                | Natural and other recreational parks   | <u>B</u> <u>A</u>                      |
|                                     | 2200                       | radurar and other recreational parks   | <u>A</u>                               |
| 回回日                                 | 600 <u>0</u>               | Education, public admin., health care, and other inst.   | _                                      |

| LBCS   |              |  |                   |
|--|--------------|--|-------------------|
| El El  |              | <u>Description</u>   | 35 IAC            |
| Main<br>Category<br>Function                             | Code         |  | 901 Land<br>Class |
| $\begin{bmatrix} \text{Cat} \\ \text{Fun} \end{bmatrix}$ | <b>၁</b>     |  | Class             |
| 61   | .00          | Educational services   |                   |
|  | 6110         | Nursery and preschool  | <u>A</u>          |
| _  | 6120         | Grade schools  | _                 |
| _  | 6121         | Elementary   |                   |
|  | 6122         | Middle   |                   |
|  | 6123         | Senior   | l T               |
|  | 6124         | Continuance  | Ī                 |
| T  | 6125         | Alternate education services   | Ī                 |
| T  | 6126         | Adult education services   | Ī                 |
| _  | 6130         | Colleges and Universities  | Ī                 |
| _  | 6140         | Technical, trade, and other specialty schools                                    | Ī                 |
| _  | 6141         | Beauty schools   | Ī                 |
| _  | 6142         | Business management  | Ī                 |
| _  | 6143         | Computer training  | $\downarrow$      |
| _  | 6144         | Driving education  |                   |
| _  | 6145         | Fine and performing arts education   | <u>A</u>          |
|  | 6146         | Flight training  | U                 |
| 9  | 6147         | Sports and recreation education  | <u>B</u>          |
| 62   | <u>200</u>   | Public administration  |                   |
| <u>(</u>   | <u>6210</u>  | <u>Legislative and executive functions</u>                                       | <u>B</u>          |
| <u>(</u>   | <u>6220</u>  | <u>Judicial functions</u>  | <u>B</u>          |
| _  | <u>6221</u>  | <u>Courts</u>  | <u>B</u>          |
| -  | 6222         | <u>Correctional institutions</u>   | <u>A</u>          |
|  | <u>800</u>   | Other government functions   | <u>B</u>          |
| _  | <u>6310</u>  | Military and national security   |                   |
| _  | 6320         | Space research and technology  |                   |
| _64  |              | Public Safety  | ļ Ļ               |
| T  | 6410         | Fire and rescue  |                   |
| _  | 6420         | Police   | _                 |
| _  | 6430         | Emergency response   | <u>B</u>          |
| 65   |              | Health and human services  |                   |
| _  | 6510         | Ambulatory or outpatient care services   | <u>A</u>          |
| _  | 6511<br>6512 | Clinics  Early planning and autrations agree contage                             |                   |
| <u> </u>   | 6512<br>6513 | Family planning and outpatient care centers  Madical and diagnostic laboratories | I                 |
| <u> </u>   | <u>6513</u>  | Medical and diagnostic laboratories  | 1                 |

| LBCS                            |               |   |                             |
|---------------------------------|---------------|---|-----------------------------|
| Main<br>Category                | Function Code | <u>Description</u>  | 35 IAC<br>901 Land<br>Class |
|                                 | 6514          | Blood and organ banks   | $\downarrow$                |
|                                 | 6520          | Nursing, supervision, and other rehabilitative services         | _                           |
|                                 | 6530          | Hospital  | <u>A</u>                    |
|                                 | <u>6560</u>   | Social assistance, welfare, and charitable services             | <u>B</u>                    |
|                                 | <u>6561</u>   | Child and youth services  |                             |
|                                 | <u>6562</u>   | Child day care  |                             |
|                                 | <u>6563</u>   | Community food services   | $\perp$                     |
|                                 | <u>6564</u>   | Emergency and relief services                                   | 1                           |
|                                 | <u>6565</u>   | Other family services   | $\underline{\downarrow}$    |
|                                 | <u>6566</u>   | Services for elderly and disabled                               |                             |
|                                 | <u>6567</u>   | Veterans affairs  | <u>B</u>                    |
|                                 | <u>6568</u>   | Vocational rehabilitation                                       | <u>A</u>                    |
|                                 | <u>6600</u>   | Religious institutions  | <u>A</u>                    |
|                                 | <u>6700</u>   | <u>Death care services</u>                                      | <u>B</u>                    |
|                                 | <u>6710</u>   | <u>Funeral homes and services</u>                               |                             |
|                                 | <u>6720</u>   | <u>Cremation services and cemeteries</u>                        | 1                           |
|                                 | <u>6800</u>   | Associations, nonprofit organizations, etc.                     | Ļ                           |
|                                 | <u>6810</u>   | Labor and political organizations                               | 1                           |
|                                 | <u>6820</u>   | Business associations and professional membership organizations | $\underline{\downarrow}$    |
|                                 | <u>6830</u>   | Civic, social, and fraternal organizations                      | <u>B</u>                    |
|                                 | 7000          | Construction-related businesses                                 |                             |
|                                 | 7100          | Building, developing, and general contracting                   | <u>B</u>                    |
| es                              | 7110          | Residential construction  | _                           |
| less                            | <u>7120</u>   | Land development and subdivision                                |                             |
| Isin                            | <u>7130</u>   | Industrial, commercial and institutional building construction  | $\perp$                     |
| 1 br                            | <u>7200</u>   | Machinery related   | 1                           |
| atec                            | <u>7310</u>   | Building equipment and machinery installation contractors       | $\perp$                     |
| -rel                            | <u>7320</u>   | Excavation contractor   | $\bar{\perp}$               |
| ion                             | 7330          | Water well drilling contractor                                  | Ī                           |
| Construction-related businesses | 7340          | Wrecking and demolition establishment                           | Ī                           |
| <u>nstr</u>                     | 7350          | Structural steel erection contractor                            | Ī                           |
| Col                             | 7360          | Special trade contractor  | Ţ                           |
|                                 | 7370          | Carpentry, floor, and tile contractor                           | <u> </u>                    |
|                                 | 7380          | Concrete contractor   | †                           |
|                                 | <u> </u>      |   | <b>-</b>                    |

| LBCS                                 |                  |   |  |
|--------------------------------------|------------------|---|--|
| Main<br>Category                     | Function<br>Code | <u>Description</u>                                | 35 IAC<br>901 Land<br>Class            |
|                                      | <u>7310</u>      | Electrical contractor                             | <u></u>                                |
|                                      | <u>7320</u>      | Glass and glazing contractor                      |  |
|                                      | <u>7330</u>      | Masonry and drywall contractors                   |  |
|                                      | <u>7340</u>      | Painting and wall covering                        | $\frac{\perp}{\underline{\downarrow}}$ |
|                                      | <u>7350</u>      | Plumbing, heating, and air-conditioning           |  |
|                                      | <u>7360</u>      | Roofing, siding, and sheet metal contractors      | <u>B</u>                               |
|                                      | <u>7400</u>      | <u>Heavy construction</u>                         | <u>C</u>                               |
|                                      | <u>7410</u>      | Highway and street construction;                  |  |
|                                      | <u>7420</u>      | Bridge and tunnel construction                    |  |
|                                      | <u>7430</u>      | Water, sewer, and pipeline construction           | $\downarrow$                           |
|                                      | <u>7440</u>      | Power lines, communication and transmission lines |  |
|                                      | <u>7450</u>      | Industrial and other nonbuilding construction     | <u>C</u>                               |
|                                      | 8000             | Mining and extraction establishments              | <u>C</u>                               |
|                                      | 8100             | Oil and natural gas                               | <u> </u>                               |
| and<br>on<br>nen                     | 8200             | Metals (iron, copper, etc.)                       |  |
| Mining and extraction establishments | 8300             | Coal  | $\downarrow$                           |
| fini<br>xxtr<br>abli                 | 8400             | Nonmetallic mining                                |  |
| N est                                | 8500             | Quarrying and stone cutting establishment         | <u>C</u>                               |
|                                      | 9000             | Agriculture, forestry, fishing and hunting        |  |
|                                      | 9100             | Crop production                                   | <u>C</u>                               |
| ınting                               | 9110             | Grain and oilseed                                 | _                                      |
|                                      | <u>9111</u>      | Wheat   |  |
| and                                  | <u>9112</u>      | <u>Corn</u>                                       | <u> </u>                               |
| ng                                   | <u>9113</u>      | Rice  | <u> </u>                               |
| ishi                                 | <u>9114</u>      | Soybean and oilseed                               | <u></u>                                |
| y, fj                                | <u>9115</u>      | Dry pea and bean                                  | <u> </u>                               |
| Agriculture, forestry, fishing and h | <u>9120</u>      | Vegetable farming or growing services             |  |
| fore                                 | <u>9130</u>      | Fruits and trees                                  | $\bar{\perp}$                          |
| re,                                  | <u>9140</u>      | Greenhouse, nursery, and floriculture             |  |
| ultu                                 | <u>9141</u>      | Food crops grown under cover                      |  |
| rica                                 | 9142             | Nursery and tree production                       | Ī                                      |
| Ag                                   | 9143             | Floriculture production                           | Ī                                      |
|                                      | 9150             | All other crops                                   | l Ī                                    |

| LB               | BCS              |   |   |
|------------------|------------------|---|---|
| Main<br>Category | Function<br>Code | <u>Description</u>  | 35 IAC<br>901 Land<br>Class                 |
|                  | 9151             | Tobacco crop  |   |
|                  | <u>9152</u>      | Cotton crop   | <u> </u>                                    |
|                  | <u>9153</u>      | Sugarcane crop  | $\perp$                                     |
|                  | <u>9154</u>      | <u>Hay</u>  | $\perp$                                     |
|                  | <u>9155</u>      | Peanut crop   | $\perp$                                     |
|                  | <u>9200</u>      | Support functions for agriculture                           | $\perp$                                     |
|                  | <u>9210</u>      | Farm and farm labor management services                     | $\perp$                                     |
|                  | <u>9220</u>      | Spraying, dusting, and other related services               | $\perp$                                     |
|                  | <u>9230</u>      | Crop harvesting and post harvest crop activities (including | <u> </u>                                    |
|                  |                  | <u>drying, siloing, etc.)</u>                               | Ţ   |
|                  | <u>9240</u>      | Cotton ginning, grist milling, etc.                         | <u> </u>                                    |
|                  | 9300             | Animal production including slaughter                       | Ţ   |
|                  | <u>9310</u>      | Cattle ranch and crops                                      | Ţ   |
|                  | <u>9311</u>      | Beef cattle ranch establishments                            | Ţ   |
|                  | <u>9312</u>      | Cattle feedlot establishment                                | <u> </u>                                    |
|                  | <u>9320</u>      | Dairy cattle and milk production                            | Ţ   |
|                  | 9330             | Hog and pig farm  | Ţ   |
|                  | <u>9340</u>      | Poultry and egg production and hatcheries                   | Ţ   |
|                  | <u>9350</u>      | Sheep and goat farming establishments                       | Ţ   |
|                  | <u>9360</u>      | Fish hatcheries, fisheries, and aquaculture                 | <u> </u>                                    |
|                  | <u>9370</u>      | All other animal production                                 | <u> </u>                                    |
|                  | <u>9371</u>      | Apiculture (bees, wax, and related operations)              | <u> </u>                                    |
|                  | 9372             | Horse and equine production                                 | Ţ   |
|                  | 9373             | Fur-bearing animal production                               | Ţ   |
|                  | <u>9380</u>      | Support functions for animal production                     | <u> </u>                                    |
|                  | 9400             | Forestry and Logging  | <u> </u>                                    |
|                  | <u>9410</u>      | Logging   | <u> </u>                                    |
|                  | <u>9420</u>      | <u>Forest nurseries</u>                                     | <u> </u>                                    |
|                  | 9430             | Support functions for forestry                              |   |
|                  | <u>9500</u>      | Fishing, hunting and trapping, game preserves               |   |
|                  | <u>9510</u>      | <u>Fishing</u>  | $\frac{\downarrow}{\underline{\mathbf{C}}}$ |
|                  | <u>9520</u>      | Hunting and trapping, game retreats, game and fishing       | <u>C</u>                                    |
|                  | 0005             | preserves   |   |
|                  | 9900             | <u>Unclassifiable function</u>                              | <u>U</u>                                    |
|                  | 9910             | Not applicable to this dimension                            |   |

| Main<br>Category<br>Eurotion | Code Code    | <u>Description</u>                | 35 IAC<br>901 Land<br>Class |
|------------------------------|--------------|-----------------------------------|-----------------------------|
|                              | 9990<br>9999 | To be determined To be determined | <u>↓</u><br><u>U</u>        |

# **APPENDIX B**

# STANDARD LAND USE CODING SYSTEM

- U.S. Department of Transportation

Federal Highway Administration Reprinted 1969

# B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT

# **LEVELS**

|          |                       |      |                                     |      |                                       | SIC                    |
|----------|-----------------------|------|-------------------------------------|------|---------------------------------------|------------------------|
| Code     | Category              | Code | Category                            | Code | Category                              | Reference <sup>‡</sup> |
| -11      | Household units.      | 110  | Household units.                    | 1100 | Household units. <sup>2</sup>         |                        |
| 12       | Group quarters.       | 121  | Rooming and boarding houses.        | 1210 | Rooming and boarding houses.3         | 7021                   |
|          |                       | 122  | Membership lodgings.                | 1221 | Fraternity and sorority houses.       | 4Incl. 7041            |
|          |                       |      |                                     | 1229 | Other membership lodgings, NEC.5      | Incl. 7041             |
|          |                       | 123  | Residence halls or dormitories.     | 1231 | Nurses' homes.                        |                        |
|          |                       |      |                                     | 1232 | College dormitories.                  |                        |
|          |                       |      |                                     | 1239 | Other residence halls or dormitories, |                        |
|          |                       |      |                                     |      | NEC.                                  |                        |
|          |                       | 124  | Retirement homes and orphan         | 1241 | Retirement homes.                     |                        |
|          |                       |      | -ages.                              | 1242 | Orphanages.                           |                        |
|          |                       | 125  | Religious quarters.                 | 1251 | Convents.                             |                        |
|          |                       |      |                                     | 1252 | Monasteries.                          |                        |
|          |                       |      |                                     | 1253 | Rectories.                            |                        |
|          |                       |      |                                     | 1259 | Other religious quarters, NEC.        |                        |
|          |                       | 129  | Other group quarters, NEC.          | 1290 | Other group quarters, NEC.            |                        |
| 3 Reside | ential hotels.        | 130  | Residential hotels.                 | 1300 | Residential hotels. <sup>6</sup>      | Incl. 7011             |
| 4 Mobik  | home parks or courts. | 140  | Mobile home parks or courts.        | 1400 | Mobile home parks or courts.          | 7031                   |
| 5 Transi | ent lodgings.         | 151  | Hotels, tourist courts, and motels. | 1510 | Hotels, tourist courts, and motels.   | 7011                   |

|  | 159 Other transient lodgings, NEC. | 1590 Other transient lodgings, NEC.7  |
|--|------------------------------------|---|
| 19 Other residential, NEC.   | 190 Other residential, NEC.        | 1900 Other residential, NEC.  |
| FOOTNOTES  |                                    |   |
| - <sup>1</sup> The SIC codes are listed for purposes<br>those that have  | of reference. They are the         | <sup>3</sup> Code 1210 "Rooming and boarding houses" are  |
| codes in the SIC system that most nearly co  | orrespond to the 4 digit           | 5 or more persons renting rooms, with or without board,   |
| land use activity indicated. (See ch. III, Sec than 5  | c. A3, "The Use of Stand           | lated to the had or person in charge. Where there are less  |
| and Industrial Classification Nomenclature.  | .") A dash indicates that          | roomers, the total quarters are considered as one "Household unit"                                |
| there is no corresponding SIC code.  -2Code 1100 "Household units" are de  | afined as a house, and apart       | —and is coded 1100. — 4"Incl. 7041" is an abbreviation which indicates that the                   |
|  | _                                  | 4-digit   |
| ment, or other group of rooms, or a single reategories of establish  |                                    | land use activity category is only one of several   |
| occupancy as separate living quarters. Occunits" do not live and eat with other person   |                                    | ments that are included under SIC code 7041.  "NEC" is an abbreviation for "not elsewhere coded." |
| in a boarding house), and there is either (1)  | direct access from the             | — <sup>6</sup> Code 1300 "Residential hotels" are those that have 75                              |
| outside or through a common hall, or (2) the permanent guests  | ere is a kitchen or cooking        | more of the available accommodations occupied by  |
| equipment for the exclusive use of the occu  | upants of the unit. The            | (i.e., persons who reside more than 30 days). Hotels with   |
| occupants may be a family, a group of unre lodgings."  | elated persons, or a person        | 75 percent are included under code 15, "Transient   |
| living alone. Mobile homes not in "Mobile such estab-  | home parks or courts"              | <sup>2</sup> Code 1590—"Other transient lodgings, NEC" includes                                   |
| (code 14), but resting on a permanent type of percent or   | of foundation (e.g., a brick       | lishments as the YMCA, YWCA, and YMHA when 50   |
| or concrete block foundation) are included associated activities   | as well as units that are          | more of the floor area is devoted to lodging and  |
| vacant or that are used on a seasonal basis. occupied by   | Farm homes are also in             | and when less than 75 percent of the accommodations are   |
| cluded under "household units" and should  | be identified separately           | permanent guests. If 75 percent or more of the guests are permanent,                              |
| from the remainder of the farm which is coo  | ded under "Agriculture,"           | use code 1300. If 50 percent or more of the floor area is   |
| code 81.   |                                    | recreational activity, use code 7424, "Recreation centers   |
| (general)."  |                                    |   |
| *"Land Class" refers to Rule 201 Classified<br>Class A Land, "B" denotes a Class B Land<br>Class C Land. "U" denotes a Land unclass:<br>(Added by IEPA.) | and "C" denotes a                  |   |
| ,  | <del>B-1</del>                     |   |

|      |                      |        |                              |              |  | SIC                    |
|------|----------------------|--------|------------------------------|--------------|--|------------------------|
| Code | Category             | Code   | Category                     | Code         | Category   | Reference <sup>1</sup> |
|      | ood and kindred prod | 211 M  | eat products manufacturing.  | 2111<br>2112 | Meat packing manufacturing. Sausages and other prepared meat               | 2011<br>2013           |
|      |                      |        |                              | 2113         | — products - manufacturing.  Poultry and small game dressing and  packing. | 2015                   |
|      |                      | 212 De | niry products manufacturing. | 2121<br>2122 | Creamery butter manufacturing.   | 2021<br>2022           |

|                                       | 2123   | Condensed and evaporated milk  | 2023                               |
|---------------------------------------|--|--|------------------------------------|
|                                       |  | manufacturing.   |                                    |
|                                       | 2124   | Ice cream and frozen desserts  | 2024                               |
|                                       | 2124   | manufacturing.   | 2024                               |
|                                       | 2125   | E  | 2026                               |
|                                       | 2125   | Fluid milk processing.   | 2026                               |
|                                       |  |  |                                    |
| 213 Canning and preserving of fruits, |  | Canning and curing seafoods.   | 2031                               |
| vegetables, and seafoods.             |  | Canning specialty foods.   | 2032                               |
|                                       | 2133   | Canning fruits, vegetables, preserves,   | 2033                               |
|                                       |  | jams, and jellies.   |                                    |
|                                       | 2134   | Drying and dehydrating fruits and  | 2034                               |
|                                       |  | vegetables.  |                                    |
|                                       | 2135   | Pickling fruits and vegetables; vege   | 2035                               |
|                                       | 2133   | table sauces and seasonings; salad   | 2033                               |
|                                       |  |  |                                    |
|                                       | 2126   | dressings manufacturing.   | 2026                               |
|                                       | 2136   | Fresh or frozen packaged fish and  | 2036                               |
|                                       |  | <del>seafoods.</del>   |                                    |
|                                       | 2137   | Frozen fruits, fruit juices, vegetables,   | 2037                               |
| -                                     |  | <del>and specialities.</del>   |                                    |
|                                       |  |  |                                    |
| 214 Grain mill products manufactur    | 2141   | Flour and other grain mill products.   | 2041                               |
| ing.                                  | 2142   | Preparing feeds for animals and fowls.   | 2042                               |
| шь.                                   | 2143   |  | 2043                               |
|                                       |  | Rice milling.  | 2043                               |
|                                       |  |  |                                    |
|                                       |  | Blending and preparing flour.  | 2045                               |
|                                       | 2146   | Wet corn milling.  | 2046                               |
|                                       |  |  |                                    |
| 215 Bakery products manufacturing.    | 2150   | Bakery products manufacturing.   | 205                                |
|                                       |  |  |                                    |
| 216 Sugar-manufacturing.              | 2160   | Sugarmanufacturing.  | 206                                |
|                                       |  | 6  |                                    |
| 217 Confectionery and related prod    | 2171   | Candy and other confectionery prod   | 2071                               |
| ucts manufacturing.                   | 21/1   | ucts manufacturing.  | 2011                               |
| ucts manufacturing.                   | 2172   |  | 2072                               |
|                                       | 2172   | Chocolate and cocoa products   | 2072                               |
|                                       |  | manufacturing.   |                                    |
|                                       | 2173   | Chewing gummanufacturing.  | 2073                               |
|                                       |  |  |                                    |
| 218 Beverage manufacturing.           | 2181   | Malt liquors manufacturing.  | 2082                               |
|                                       | 2182   | Malt manufacturing.  | 2083                               |
|                                       |  | Wine, brandy, and brandy spirits   | 2004                               |
|                                       |  |  | // 18/1                            |
|                                       |  |  | 2084                               |
|                                       |  | manufacturing.   |                                    |
|                                       | 2184   | manufacturing. Distilling, rectifying, and blending  | 2084                               |
|                                       | 2184   | — manufacturing.  — Distilling, rectifying, and blending  — liquors.   | 2085                               |
|                                       |  | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and  |                                    |
|                                       | 2184   | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters.   | 2085<br>2086                       |
|                                       | 2184   | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups  | 2085                               |
|                                       | 2184   | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters.   | 2085<br>2086                       |
|                                       | 2184   | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups  | 2085<br>2086                       |
| 219 Other food preparations and kin   | 2184   | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  | 2085<br>2086<br>2087               |
|                                       | 2184<br>2185<br>2186<br>2191                 | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling.   | 2085<br>2086<br>2087               |
| dred products manufacturing,          | 2184<br>2185<br>2186<br>2191<br>2192         | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling.  | 2085 2086 2087 2091 2092           |
|                                       | 2184<br>2185<br>2186<br>2191<br>2192         | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton   | 2085<br>2086<br>2087               |
| dred products manufacturing,          | 2184<br>2185<br>2186<br>2191<br>2192<br>2193 | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton seed and soybean).  | 2085 2086 2087 2091 2092 2093      |
| dred products manufacturing,          | 2184<br>2185<br>2186<br>2191<br>2192         | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton seed and soybean). Animal and marine fats and oils (in  | 2085 2086 2087 2091 2092           |
| dred products manufacturing,          | 2184<br>2185<br>2186<br>2191<br>2192<br>2193 | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton seed and soybean). Animal and marine fats and oils (in cluding grease and tallow) manu-   | 2085 2086 2087 2091 2092 2093      |
| dred products manufacturing,          | 2184<br>2185<br>2186<br>2191<br>2192<br>2193 | manufacturing.  Distilling, rectifying, and blending liquors.  Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton seed and soybean).  Animal and marine fats and oils (in cluding grease and tallow) manufacturing.   | 2085 2086 2087 2091 2092 2093      |
| dred products manufacturing,          | 2184<br>2185<br>2186<br>2191<br>2192<br>2193 | manufacturing.  Distilling, rectifying, and blending liquors.  Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton seed and soybean).  Animal and marine fats and oils (in cluding grease and tallow) manufacturing.   | 2085 2086 2087 2091 2092 2093      |
| dred products manufacturing,          | 2184 2185 2186 2191 2192 2193 2194           | manufacturing. Distilling, rectifying, and blending liquors. Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton seed and soybean). Animal and marine fats and oils (in cluding grease and tallow) manufacturing. Roasting coffee and coffee products  | 2085 2086 2087 2091 2092 2093 2094 |
| dred products manufacturing,          | 2184 2185 2186 2191 2192 2193 2194 2195      | manufacturing.  Distilling, rectifying, and blending liquors.  Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton seed and soybean).  Animal and marine fats and oils (in cluding grease and tallow) manufacturing.  Roasting coffee and coffee products manufacturing.                                     | 2085 2086 2087 2091 2092 2093 2094 |
| dred products manufacturing,          | 2184 2185 2186 2191 2192 2193 2194           | manufacturing.  Distilling, rectifying, and blending liquors.  Bottling and canning soft drinks and carbonated waters.  Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton seed and soybean).  Animal and marine fats and oils (in cluding grease and tallow) manufacturing.  Roasting coffee and coffee products manufacturing. Shortening, table oils, margarine, | 2085 2086 2087 2091 2092 2093 2094 |
| dred products manufacturing,          | 2184 2185 2186 2191 2192 2193 2194 2195      | manufacturing.  Distilling, rectifying, and blending liquors.  Bottling and canning soft drinks and carbonated waters. Flavor extracts and flavoring sirups manufacturing, NEC.  Cottonseed oil milling. Soybean oil milling. Vegetable oil milling (except cotton seed and soybean).  Animal and marine fats and oils (in cluding grease and tallow) manufacturing.  Roasting coffee and coffee products manufacturing.                                     | 2085 2086 2087 2091 2092 2093 2094 |

| 2197 | Ice manufacturing  | <del>2097</del> |
|------|--|-----------------|
| 2100 |  | 2000            |
| 2198 | Macaroni, spaghetti, vermicelli, and                       | <del>2098</del> |
| 2100 | noodles manufacturing. Other food preparations and kindred | 2000            |
| 217) | products manufacturing, NEC.                               | 20))            |

|                 |                            |                  |                                     |                 |   | SIC         |
|-----------------|----------------------------|------------------|-------------------------------------|-----------------|---|-------------|
| <del>Code</del> | Category                   | <del>Code-</del> | Category                            | <del>Code</del> | Category                                | Reference*- |
| 22              | Textile mill products manu | 221              | Broad and narrow woven fabrics      | 2210            | Broad and narrow woven fabrics and      | 221,222,223 |
|                 | facturing.                 |                  | and other small wares (cotton,      |                 | other small wares (cotton, manmade      | and 224     |
|                 |                            |                  | manmade fibers, silk, and wool)     |                 | fibers, silk, and wool) manufacturing.  |             |
|                 |                            |                  | manufacturing.                      |                 |   |             |
|                 |                            | 222              | Knit goods manufacturing.           | 2220            | Knit goods manufacturing.               | 225         |
|                 |                            | 223              | Dyeing and finishing of textiles    | 2230            | Dyeing and finishing of textiles (ex-   | 226         |
|                 |                            |                  | (except wool fabrics and knit       |                 | cept wool fabrics and knit goods).      |             |
|                 |                            |                  | <del>goods.</del>                   |                 |   |             |
|                 |                            | 224              | Floor coverings (rugs and carpets)  | 2240            | Floor coverings (rugs and carpets)      | 227         |
|                 |                            |                  | manufacturing.                      |                 | manufacturing.                          |             |
|                 |                            | 225              | Yarns and threads manufacturing.    | 2250            | Yarns and threads manufacturing.        | 228         |
|                 |                            | 229              | Other textile goods manufacturing,  | 2291            | Felt goods (except woven felts and      | 2291        |
|                 |                            |                  | NEC.                                |                 | hats) manufacturing.                    |             |
|                 |                            |                  |                                     | 2292            | Lace Goods manufacturing.               | 2292        |
|                 |                            |                  |                                     | 2293            | Padding and upholstery filling          | 2293        |
|                 |                            |                  |                                     |                 | manufacturing.                          |             |
|                 |                            |                  |                                     | 2294            | Processing waste and recovering fibers  | 2294        |
|                 |                            |                  |                                     |                 | and flock.                              |             |
|                 |                            |                  |                                     | 2295            | Artificial leather and oil cloth manu   | 2295        |
|                 |                            |                  |                                     |                 | facturing and other impregnating and    |             |
|                 |                            |                  |                                     |                 | coating fabrics (except rubberizing).   |             |
|                 |                            |                  |                                     | 2296            | Tire cording and fabric manufacturing.  | 2296        |
|                 |                            |                  |                                     | 2297            | Wool scouring, worsted combing, and     | 2297        |
|                 |                            |                  |                                     |                 | towing to top.                          |             |
|                 |                            |                  |                                     | 2299            | - · · · · · · · · · · · · · · · · · · · | 2299        |
|                 |                            |                  |                                     |                 | NEC.                                    |             |
| 23              | Apparel and other finished | 231              | Men's, youths' and boys' suits,     | 2310            | Men's, youth's, and boys' suits, coats, | 231         |
|                 | products made from fab     |                  | coats, and overcoats manufac        |                 | and overcoats manufacturing.            |             |
|                 | rics, leather, and similar |                  | <del>turing.</del>                  |                 |   |             |
|                 | materials manufacturing.   |                  |                                     |                 |   |             |
|                 |                            | 232              | Men's, youths', and boys' furnish-  | 2320            | Men's, youths', and boys' furnishings,  | 232         |
|                 |                            |                  | ings, work clothing, and allied     |                 | work clothing, and allied garments      |             |
|                 |                            |                  | garments manufacturing.             |                 | manufacturing.                          |             |
|                 |                            | 233              | Women's, misses', juniors', girls', | 2330            | Women's, misses', juniors', girls',     | 233 aı      |
|                 |                            |                  | children's, and infants' outerwear  |                 | children's, and infants' outerwear      | 236         |
|                 |                            |                  | manufacturing.                      |                 | manufacturing.                          |             |

|                | 234  | Women's, misses', children's, and infants' undergarments manufact | 2340  | Women's, misses', children's, and infants' undergarments | 234            |
|----------------|------|---|-------|--|----------------|
| manufacturing. |      |   |       | C  |                |
|                |      | uring.  |       |  |                |
|                | 235  | Hats, caps, and millinery manu                                    | 2350  | Hats, caps, and millinery manufac                        | 235            |
|                |      | facturing.  |       | <del>turing.</del>                                       |                |
|                | 236  | Leather and leather products                                      | 2361  | Leather tanning and finishing.                           | 3111           |
|                |      | manufacturing.  | 2362  | Industrial leather belting and packing manufacturing.    | 3121           |
|                |      |   | 2363  | Boot and shoe cut stock and findings                     | 3131           |
|                |      |   |       | manufacturing.   |                |
| C              | 21.4 |   | 2364  | Footwear (except rubber)                                 |                |
| manufacturing. | 314  |   | 2365  | Leather gloves and mittens                               |                |
| manufacturing. | 315  |   | 2303  | Beatier groves and mittens                               |                |
|                |      |   | 2366  | Luggage manufacturing.                                   | 316            |
|                |      |   | 2367  | Handbags and other personal leather                      | 317            |
|                |      |   | 22.60 | goods manufacturing.                                     | 210            |
|                |      |   | 2369  | Other leather products manufacturing, NEC.               | <del>319</del> |
|                | 237  |   | 2370  | Fur goods manufacturing.                                 | 237            |

B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES — TWO , THREE , AND FOUR DIGIT LEVELS — Continued

|                   |                           |      |   |      |   | 3/6                      |
|-------------------|---------------------------|------|---|------|---|--------------------------|
| Code              | Category                  | Code | Category  | Code | Category  | Reference <sup>‡</sup> - |
| 23 A <sub>1</sub> | oparel and other finished | 238  | Miscellaneous apparel and acces                       | 2381 | Dress and work gloves (except knit                                    | 2381                     |
| <del>-produ</del> | ects made from fab        |      | sories manufacturing.                                 |      | and all leather) manufacturing.                                       |                          |
| -rics, l          | eather, and similar       |      |   | 2382 | Robes and dressing gowns-manu-  | 2384                     |
| n                 | naterials manufacturing   |      |   |      | <del>facturing.</del>   |                          |
|                   | Continued                 |      |   | 2383 | Raincoats and other waterproof outer garments manufacturing.          | <del>2385</del>          |
|                   |                           |      |   | 2384 | Leather and sheep lined clothing manufacturing.                       | <del>2386</del>          |
|                   |                           |      |   | 2385 | Apparel beltsmanufacturing.   | 2387                     |
|                   |                           |      |   | 2389 | Other miscellaneous apparel and ac                                    | <del>2389</del>          |
|                   |                           |      |   |      | cessory manufacturing, NEC.   |                          |
|                   |                           | 239  | Other fabricated textile products manufacturing, NEC. | 2391 | Curtains and draperies manufac turing.                                | 2391                     |
|                   |                           |      | <u> </u>  | 2392 | House furnishings (except curtains and draperies) manufacturing.      | 2392                     |
|                   |                           |      |   | 2393 | Textile bags manufacturing.   | 2393                     |
|                   |                           |      |   | 2394 | Canvas products manufacturing.  | 2394                     |
|                   |                           |      |   | 2395 | Pleating, decorative and novelty stitching and tucking for the trade. | <del>2395</del>          |
|                   |                           |      |   | 2396 | Apparel findings and related prod-                                    | 2396                     |

|                 |   | 2399  | ucts manufacturing. Other fabricated textile products   | 2397 and  |
|-----------------|---|---|---|---|
|                 |   |   |   |   |
|                 |   |   | manufacturing, NEC.   | 2399  |
| 241             | Logging camps and logging con                               | 2410  | Logging camps and logging contrac   | <del>241</del>  |
| 2-71            |   | 2+10  |   | 271   |
|                 | tractors.   |   | 1015.   |   |
| 242             | Saxymills and planing mills                                 | 2421  | Saymille and planing mille general  | 2421  |
| 272             | Sawiims and plaining inins.                                 |   |   | 2426  |
|                 |   | 2-722   | ě   | 2420  |
|                 |   | 2420  |   | 2429  |
|                 |   | 2-12)   |   | 242)  |
|                 |   |   | turing, 1.20.   |   |
| 243             | Millwork, veneer, plywood, and                              | 2431  | Millwork.   | 2431  |
|                 | prefabricated structural wood                               | 2432  | Veneer and plywood manufactur   | 2432  |
|                 | products manufacturing.                                     |   |   |   |
|                 |   | 2433  | Prefabricating wooden buildings and   | 2433  |
|                 |   |   | structural members-manufacturing.   |   |
|                 |   |   |   |   |
| 244             |   | 2440  | Wooden containers manufacturing.  | 244   |
|                 | <del>ing.</del>   |   |   |   |
| 240             |   | 2401  | W 1 '   | 2401  |
|                 |   |   |   | 2491<br>2499  |
|                 |   | 2/199   |   | <u> </u>  |
|                 | ing, NEC.   |   |   |   |
|                 |   |   | <del></del>   |   |
| 251             | Household furniture manufactur                              | 2510  | Household furniture manufacturing.  | 251   |
|                 |   |   |   |   |
|                 | 6.  |   |   |   |
| 252             | Office furniture manufacturing.                             | 2520  | Office furniture manufacturing.   | 252   |
|                 |   |   |   |   |
| 253             |   | 2530  |   | <del>2531</del>   |
|                 | niture manufacturing.                                       |   | ture manufacturing.   |   |
| 25.4            | Danisiana akalaina laalaan and                              | 25.40   | Descriptions of the best of the second  | 254   |
| <del>23/ </del> |   | 23/10   |   | <del>234</del>  |
|                 |   |   |   |   |
|                 | racturing.  |   | <del>— racturing.</del>   |   |
| 259             | Other furniture and fixtures many                           | 2591  | Venetian blinds and shades many   | 2591  |
|                 |   | 2371  |   | 2071  |
|                 |   | 2599  |   | 2599  |
|                 |   |   | facturing, NEC.   |   |
|                 |   |   |   |   |
| 261             | Pulp manufacturing.   | 2610  | Pulp manufacturing.   | <del>261</del>  |
|                 |   |   |   |   |
| 262             | Paper (except building paper)                               | 2620  | Paper (except building paper)   | 262   |
|                 | 242<br>243<br>244<br>249<br>251<br>252<br>253<br>254<br>259 | 242 Sawmills and planing mills.  243 Millwork, veneer, plywood, and prefabricated structural wood products manufacturing.  244 Wooden containers manufacturing.  249 Other lumber and wood products. (except furniture) manufacturing, NEC.  251 Household furniture manufacturing.  252 Office furniture manufacturing.  253 Public building and related furniture manufacturing.  254 Partitions, shelving, lockers, and office and store fixtures manufacturing.  259 Other furniture and fixtures manufacturing, NEC. | tractors.  242 Sawmills and planing mills.  2421 2422  2429  243 Millwork, veneer, plywood, and prefabricated structural wood 2432 products manufacturing.  243 Wooden containers manufactur 2440 ing.  249 Other lumber and wood products. (except furniture) manufactur 2499 ing, NEC.  251 Household furniture manufactur 2510 ing.  252 Office furniture manufacturing. 253 Public building and related fur 2530 niture manufacturing.  254 Partitions, shelving, lockers, and office and store fixtures manu facturing.  259 Other furniture and fixtures manu 2591 facturing, NEC.  259 | tractors.  242 Sawmills and planing mills.  2421 Sawmills and planing mills, general.  2422 Hardwood dimension and flooring manufacturing.  2429 Special sawmill products manufacturing.  243 Millwork, veneer, plywood, and prefabricated structural wood products manufacturing.  243 Prefabricating wooden buildings and structural members manufacturing.  244 Wooden containers manufactur  ing.  244 Wooden containers manufactur  ing.  249 Other lumber and wood products.  (except furniture) manufactur  ing, NEC.  251 Household furniture manufactur  ing.  252 Office furniture manufacturing.  253 Public building and related fur niture manufacturing.  254 Partitions, shelving, lockers, and office and store fixtures manufacturing.  259 Other furniture and fixtures manu facturing.  259 Other furniture and fixtures manufacturing.  259 Other furniture and fixtures manufacturing. |

|      |          |      |          |      |          | SIC La        |
|------|----------|------|----------|------|----------|---------------|
|      |          |      |          |      |          | DIC Lu        |
| Coda | Catagory | Code | Catagory | Code | Catagory | Patarana 1 Cl |
| Couc | Curegory | Couc | Caregory | Couc | Caregory | Reference Cu  |

| 26 Paper and allied products manufacturing Continued | 263   | Paperboard manufacturing.           | 2630 | Paperboard manufacturing.           | 263            |
|--|-------|-------------------------------------|------|-------------------------------------|----------------|
| mandracturing Continued                              | 264   | Converted paper and paperboard      | 2641 | Paper coating and glazing.          | 2641           |
|  | 204   | products (except containers and     |      | Envelope manufacturing.             | 2642           |
|  |       | boxes) - manufacturing.             | 2643 |                                     | 2643           |
|  |       | ookes) manaractaring.               | 2019 | facturing.                          | 2013           |
|  |       |                                     | 2644 |                                     | 2644           |
|  |       |                                     | 2645 | Die cut paper and paperboard; and   | 2645           |
|  |       |                                     |      | cardboard manufacturing.            |                |
|  |       |                                     | 2646 | Pressed and molded pulp goods       | 2646           |
|  |       |                                     |      | manufacturing.                      |                |
|  |       |                                     | 2647 | Sanitary paper products manufac     | 2647           |
|  |       |                                     |      | turing.                             |                |
|  |       |                                     | 2649 | Other converted paper and paper     | 2649           |
|  |       |                                     |      | board products (except containers   |                |
|  |       |                                     |      | and boxes) manufacturing, NEC.      |                |
|  |       |                                     |      |                                     |                |
|  | 265   | Paperboard containers and boxes     | 2650 | Paperboard containers and boxes     | <del>265</del> |
|  |       | manufacturing.                      |      | manufacturing.                      |                |
|  | 266   | Building paper and building         | 2660 | Building paper and building board   | 266            |
|  | 200   | board manufacturing.                | 2000 | manufacturing.                      | 200            |
|  |       | board manuracturing.                |      | <del>- manuracturing.</del>         |                |
| Printing, publishing, and                            | 271   | Newspapers: publishing, publish     | 2710 | Newspapers: publishing, publishing  | 271            |
| allied industries.                                   | -     | ing and printing.                   |      | and printing.                       |                |
| amed madastress                                      |       | g w.u pg.                           |      | and printing.                       |                |
|  | 272   | Periodicals: publishing, publishing | 2720 | Periodicals: publishing, publishing | 272            |
|  |       | and printing.                       |      | and printing.                       |                |
|  |       | 1 0                                 |      |                                     |                |
|  | 273   | Books: publishing, publishing and   | 2730 | Books: publishing, publishing and   | 273            |
|  |       | printing.                           |      | <del>printing.</del>                |                |
| _  | 274   | Commercial printing.                | 2740 | Commercial printing.                | 275            |
|  |       |                                     |      |                                     |                |
|  | 275   | Manifold business formsmanu-        | 2750 | Manifold business formsmanufac-     | 276            |
|  |       | facturing.                          |      | turing.                             |                |
|  | 276   | Greeting card manufacturing.        | 2760 | Greeting card manufacturing.        | 277            |
|  | 277   | B 11: 1: 1 1 1 1 1                  | 2551 | D                                   | 2502           |
|  | 277   | Bookbinding and related indus       | 2771 | Blankbooks, looseleaf binders, and  | 2782           |
|  |       | triesmanufacturing.                 | 2552 | devicesmanufacturing.               | 2=00           |
|  |       |                                     | 2772 | Bookbinding and miscellaneous re    | 2789           |
|  | 270   | Birth and the state of              | 2701 | lated work manufacturing.           | 2701           |
|  | 278   | Printing trade service industries.  | 2781 | Typesetting.                        | 2791           |
|  |       |                                     | 2782 | Photoengraving.                     | 2793           |
|  |       |                                     | 2783 | Electrotyping and stereotyping.     | 2794<br>2700   |
|  |       |                                     | 2789 | Other printing trade service indus- | 2799           |
|  | 270   | 04 14 1 1811 200                    | 0700 | tries, NEC.                         | 27.1           |
|  | 279   | Other printing and publishing, NEC. | 2790 | Other printing and publishing, NEC. | 274            |
| 28 Chemicals and allied prod                         | 281   | Industrial inorganic and organic    | 2810 | Industrial inorganic and organic    | 281            |
| uets manufacturing.                                  |       | chemicals manufacturing.            |      | chemicals manufacturing.            |                |
| C  |       | Ç                                   |      | Ç                                   |                |
|  | 282   | Plastics materials and synthetic    | 2820 | Plastics materials and synthetic    | 282            |
|  |       | resins, synthetic rubber, syn       |      | resins, synthetic rubber, synthetic |                |
|  |       | thetic and other manmade fibers     |      | and other manmade fibers (except    |                |
|  |       | (except glass) manufacturing.       |      | glass) manufacturing.               |                |
|  | • • • | 5                                   |      |                                     |                |
|  | 283   | Drugmanufacturing.                  | 2831 | Biological productsmanufacturing.   | 2831           |
|  |       |                                     |      |                                     |                |

|                               |          |                                  | 2832                  | Medicinal chemicals and botanical     | 2833           |
|-------------------------------|----------|----------------------------------|-----------------------|---------------------------------------|----------------|
|                               |          |                                  |                       | products manufacturing.               |                |
|                               |          |                                  | 2833                  | Pharmaceutical preparations man       | 2834           |
|                               |          |                                  |                       | ufacturing.                           |                |
|                               | 284      | Soap, detergents, and cleaning   | 2841                  | Soap and detergents (except spe       | 2841           |
|                               |          | preparations, perfumes, cos-     |                       | cialty cleaners)manufacturing.        |                |
|                               |          | metics, and other toilet prepa   | 2842                  | Specialty cleaning, polishing, and    | 2842           |
|                               |          | rations manufacturing.           |                       | sanitation preparations (except       |                |
|                               |          |                                  |                       | soap and detergents) manufac          |                |
|                               |          |                                  |                       | <del>turing.</del>                    |                |
|                               |          |                                  | 2843                  | Surface active agents, finishing      | 2843           |
|                               |          |                                  |                       | agents, sulfonated oils, and as-      |                |
|                               |          |                                  |                       | sistants manufacturing.               |                |
|                               |          |                                  | 2844                  | Perfumes, cosmetics, and other toilet | 2844           |
|                               |          |                                  |                       | preparations manufacturing.           |                |
| A CTANDADD CYCTEM EOD ID      | ENTHENT  | B 5                              | TIMTIES               | -TWO-, THREE-, AND FOUR-DIGIT         |                |
| A STANDARD STSTEW FOR ID      | ENTIF II | LEVELS Continued                 | <del>117111E3 -</del> | -IWO, IRREE, AND FOUR DIGIT           |                |
|                               |          |                                  |                       |                                       |                |
| Code Category                 | Code     | Catagomi                         | Code                  | Catagomi                              | SIC<br>Referen |
| oue category                  | Coue     | Category                         | Coue                  | Category                              | Kejeren        |
|                               |          |                                  |                       |                                       |                |
| 28 Chemicals and allied prod- | 285      | Paints, varnishes, lacquers, en- | 2850                  | Paints, varnishes, lacquers, enamels, | 285            |
| ucts manufacturing            |          | amels, and allied products       |                       | and allied products manufacturing.    |                |
| Continued.                    |          | manufacturing.                   |                       |                                       |                |
|                               | 286      | Gum and wood chemicals manu      | 2860                  | Gum and wood chemicals manufac        | <del>286</del> |
|                               | 200      | facturing.                       | 2000                  | turing.                               | 200            |
|                               |          | racturing.                       |                       | turing.                               |                |
|                               | 287      | Agricultural chemicals manufac   | 2870                  | Agricultural chemicals manufac        | 287            |
|                               | 207      | turing.                          | 2070                  | turing.                               | 207            |
|                               |          | turing.                          |                       | turing.                               |                |
|                               | 289      | Other chemicals and allied prod  | 2891                  | Glue and gelatin manufacturing.       | 2891           |
|                               | 207      | ucts manufacturing, NEC.         |                       | Explosives manufacturing.             | 2892           |
|                               |          | dets manufacturing, 142C.        |                       | Printing ink-manufacturing.           | 2893           |
|                               |          |                                  |                       | Carbon black manufacturing.           | 2895           |
|                               |          |                                  |                       | Other chemicals and allied products   | 2899           |
|                               |          |                                  | 2077                  | manufacturing, NEC.                   | 20//           |
|                               |          |                                  |                       |                                       |                |
| 29 Petroleum refining and re  | 291      | Petroleum refining.              | 2910                  | Petroleum refining.                   | 291            |
| lated industries.             |          | ·                                | ->10                  | g.                                    |                |
|                               | 292      | Paving and roofing materials     | 2921                  | Paving mixtures and blocks manu       | 2951           |
|                               | -/-      | manufacturing.                   | -/                    | facturing.                            | 2,01           |
|                               |          |                                  | 2922                  | Asphalt felts and coatings manu       | 2952           |
|                               |          |                                  |                       | facturing.                            |                |
|                               |          |                                  |                       |                                       |                |
|                               | 299      | Other petroleum refining and re- | 2991                  | Lubricating oils and greasesmanu-     | 2992           |
|                               | -        | lated industries, NEC.           |                       | facturing.                            |                |
|                               |          | ,                                | 2999                  | Other petroleum and coal products     | 2999           |
|                               |          |                                  |                       | manufacturing, NEC.                   |                |
|                               |          |                                  |                       |                                       | 20:            |
| Rubber and miscellaneous      | 311      | Tires and inner tubes manufac    | 3110                  | Tires and inner tubes manufactur      | 301            |
| plastic productsmanu-         |          | turing.                          |                       | <del>ing.</del>                       |                |
| facturing.                    | 212      | D.11.                            | 2126                  | D 11 6                                | 262            |
|                               | 312      | Rubber footwear manufacturing.   | 3120                  | Rubber footwear manufacturing.        | <del>302</del> |
|                               | 212      | Destriction 11                   | 2120                  | Destriction will                      | 202            |
|                               | 313      | Reclaiming rubber.               | 3130                  | Reclaiming rubber.                    | <del>303</del> |
|                               | 214      | Missallaneous planting and deat  | 21.40                 | Miggellone over placetic and desert   | 207            |
|                               | 314      | Miscellaneous plastic products-  | 3140                  | Miscellaneous plastic products        | <del>307</del> |

|   |     | manufacturing.  |      | manufacturing.   |                       |
|---|-----|---|------|--|-----------------------|
|   | 319 | Other fabricated rubber products manufacturing, NEC.  | 3190 | Other fabricated rubber products manufacturing, NEC.   | <del>306</del>        |
| 32 Stone, clay, and glass products manufacturing. | 321 | Flat glassmanufacturing.                              | 3210 | Flat glassmanufacturing.   | 3211 and incl. 323    |
|   | 322 | Glass and glassware (pressed or blown) manufacturing. | 3221 | Glass containers manufacturing.  | 3221 and incl. 323    |
|   |     | ciowii) ilianidaediilig.                              | 3229 | Other glass and glassware (pressed or blown) manufacturing, NEC.                                       | 3229 and<br>incl. 323 |
|   | 323 | Cement (hydraulie) manufactur ing.                    | 3230 | Cement (hydraulie) manufacturing.  | 324                   |
|   | 324 | Structural clay products manu facturing.              | 3241 | Brick and structural clay tile manu facturing.   | 3251                  |
|   |     | ractaring.  | 3242 | Ceramic wall and floor tile manu facturing.  | 3253                  |
|   |     |   | 3243 | Clay refractories manufacturing.   | 3255                  |
|   |     |   | 3249 | Other structural clay products manu facturing, NEC.  | <del>3259</del>       |
|   | 325 | Pottery and related products manufacturing.           | 3251 | Vitreous china plumbing fixtures, china, earthenware fittings, and bathroom accessories manufacturing. | <del>3261</del>       |
|   |     |   | 3252 | Vitreous china table and kitchen  articles manufacturing.  | 3262                  |
|   |     |   | 3253 |  | 3263                  |
|   |     |   | 3254 | _  | 3264                  |
|   |     |   | 3259 | Other pottery and related products manufacturing, NEC.   | 3269                  |

|      |   |      |   |      |  | SIC            |
|------|---|------|---|------|--|----------------|
| Code | Category                                      | Code | Category  | Code | Category   | Referenc       |
| 32   | Stone, clay, and glass products manufacturing | 326  | Concrete, gypsum, and plaster products manufacturing.                               | 3261 | Concrete brick and block manu facturing.   | 3271           |
|      | Continued.                                    |      |   | 3262 | Concrete products (excluding brick and block) manufacturing.                       | 3272           |
|      |   |      |   | 3263 | Concrete (ready mixed) manufac turing.   | 3273           |
|      |   |      |   | 3264 | Lime products manufacturing.   | 3274           |
|      |   |      |   | 3265 | Gypsum products manufacturing.   | 3275           |
|      |   | 327  | Cut stone and stone products manufacturing.   | 3270 | Cut stone and stone products manu facturing.                                       | 328            |
|      |   | 328  | Abrasive, asbestos, and miscella neous nonmetallic mineral prod ucts—manufacturing. | 3280 | Abrasive, asbestos, and miscella neous nonmetallic mineral products—manufacturing. | <del>329</del> |

| 3 Primary metal industries. | 331  | Blast furnaces, steel works, and   | 3311  | Blast furnaces (including coke ovens),              | 3312  |
|-----------------------------|------|------------------------------------|-------|---|-------|
|                             |      | the rolling and finishing of fer   |       | steel works, and the rolling of fer-                |       |
|                             |      | rous metals.                       |       | rous metals.  |       |
|                             |      |                                    | 3312  | Electrometallurgical products man                   | 331   |
|                             |      |                                    |       | ufacturing.   |       |
|                             |      |                                    | 3313  | Steel wire drawing and steel nails                  | 331   |
|                             |      |                                    |       | and spikes manufacturing.                           |       |
|                             |      |                                    | 3314  | Cold rolled sheet, strip, and bars                  | 331   |
|                             |      |                                    | 3311  | manufacturing.                                      | 331   |
|                             |      |                                    | 2215  | _   | 221   |
|                             |      |                                    | 3315  | Steel pipe and tubes manufacturing.                 | 331   |
|                             |      |                                    |       |   |       |
|                             | 332  | Iron and steel foundries.          | 3320  | Iron and steel foundries.                           | 332   |
|                             |      |                                    |       |   |       |
|                             | 333  | Primary smelting and refining of   | 3331  | Primary smelting and refining of                    | 333   |
|                             |      | nonferrous metals.                 |       | <del></del>   |       |
|                             |      |                                    | 3332  | Primary smelting and refining of                    | 333   |
|                             |      |                                    |       | — lead.   |       |
|                             |      |                                    | 3333  |   | 333   |
|                             |      |                                    | 3333  | Primary smelting and refining of                    | 333   |
|                             |      |                                    |       | <del>zine.</del>                                    |       |
|                             |      |                                    | 3334  | Primary production of aluminum.                     | 333   |
|                             |      |                                    | 3339  | Other primary smelting and refining                 | 333   |
|                             |      |                                    |       | of nonferrous metals, NEC.                          |       |
|                             |      |                                    |       |   |       |
|                             | 334  | Secondary smelting and refining of | 3340  | Secondary smelting and refining of                  | 334   |
|                             |      | nonferrous metals and alloys.      |       | nonferrous metals and alloys.                       |       |
|                             |      | nomerrous metals and anoys.        |       | nomerous means and anoys.                           |       |
|                             | 335  | Dolling drawing and autording of   | 2251  | Dolling drawing and systmeting of                   | 335   |
|                             | 333  | Rolling, drawing, and extruding of | 3351  | Rolling drawing, and extruding of                   | - 333 |
|                             |      | nonferrous metals.                 |       | <del></del>   |       |
|                             |      |                                    | 3352  | Rolling, drawing, and extruding of                  | 335   |
|                             |      |                                    |       | <del>aluminum.</del>                                |       |
|                             |      |                                    | 3353  | Rolling, drawing, and extruding of                  | 335   |
|                             |      |                                    |       | nonferrous metals (except copper                    |       |
|                             |      |                                    |       | and aluminum).                                      |       |
|                             |      |                                    | 3354  | Drawing and insulating of nonferrous                | 335   |
|                             |      |                                    | 3334  | wire.   | 333   |
|                             |      |                                    |       | <del></del>   |       |
|                             | 22.5 |                                    | 22.50 |   |       |
|                             | 336  | Nonferrous foundries.              | 3360  | Nonferrous foundries.                               | 336   |
|                             |      |                                    |       |   |       |
|                             | 339  | Other primary metal industries,    | 3390  | Other primary metal industries,                     | 339   |
|                             |      | NEC.                               |       | NEC.  |       |
|                             |      |                                    |       |   |       |
| 34 Fabricated metal prod    | 341  | Ordinance and accessories.         | 3411  | Guns, howitzers, mortars, and re                    | 191   |
| uets manufacturing.         |      |                                    |       | lated equipment manufacturing.                      |       |
| dets mandiacturing.         |      |                                    | 2/12  |   | 192   |
|                             |      |                                    | 3412  | Ammunition (except small arms)                      | 192   |
|                             |      |                                    |       | manufacturing and complete as-                      |       |
|                             |      |                                    |       | sembling of guided missiles and                     |       |
|                             |      |                                    |       | space vehicles.                                     |       |
|                             |      |                                    | 3413  | Tanks and tank components manu                      | 193   |
|                             |      |                                    |       | facturing.  |       |
|                             |      |                                    | 3414  | Sighting and fire control equipment                 | 194   |
|                             |      |                                    |       | manufacturing.                                      |       |
|                             |      |                                    | 2/15  | Small arms manufacturing.                           | 195   |
|                             |      |                                    |       |   |       |
|                             |      |                                    | 3/116 | Small arms ammunitionmanufac-                       | 196   |
|                             |      |                                    |       | <del>turing.</del>                                  |       |
|                             |      |                                    |       |   |       |
|                             |      |                                    | 3419  | Other ordinance and accessories manufacturing, NEC. | 199   |

# $\textbf{B.} \quad \textbf{A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT \\ \textbf{LEVELS -- Continued}$

| Code | Category                                | Code | Category                                     | Code         | Category                              | Re   |
|------|---|------|--|--------------|---------------------------------------|------|
|      |   |      |  |              |                                       |      |
| 34   | Fabricated metal products manufacturing | 342  | Machinery (except electrical) manufacturing. | 3421         | Engines and turbines manufactur ing.  | 35   |
|      | Continued.                              |      | manaractaring.                               | 3422         | Farm machinery and equipment          | 35   |
|      | Continued.                              |      |  | 3722         | manufacturing.                        | 33   |
|      |   |      |  | 2422         | Construction, mining, and materials   | 35   |
|      |   |      |  | 3423         |                                       |      |
|      |   |      |  |              | handling machinery and equip          |      |
|      |   |      |  | 2424         | ment manufacturing.                   | 25   |
|      |   |      |  | 3424         | Metalworking machinery and equip      | 35   |
|      |   |      |  | 2.12.5       | ment manufacturing.                   |      |
|      |   |      |  | 3425         | Special industry machinery (except    | 35   |
|      |   |      |  |              | metalworking machinery)manu-          |      |
|      |   |      |  |              | <del>facturing.</del>                 |      |
|      |   |      |  | 3426         | General industrial machinery and      | 35   |
|      |   |      |  |              | equipment manufacturing.              |      |
|      |   |      |  | 3427         | Office, computing, and accounting     | 35   |
|      |   |      |  |              | machines manufacturing.               |      |
|      |   |      |  | 3428         | Service industry machinesmanu-        | 35   |
|      |   |      |  |              | <del>facturing.</del>                 |      |
|      |   |      |  | 3429         | Other machinery manufacturing         | 35   |
|      |   |      |  |              | (except electrical), NEC.             |      |
|      |   | 343  | Electrical machinery, equipment,             | 3431         | Electrical transmission and distribu  | 36   |
|      |   |      | and supplies-manufacturing.                  |              | tion equipmentmanufacturing.          |      |
|      |   |      | 11   | 3432         | Electrical industrial apparatus       | 36   |
|      |   |      |  |              | manufacturing.                        |      |
|      |   |      |  | 3433         | Household appliances manufactur       | 36   |
|      |   |      |  |              | — ing.                                |      |
|      |   |      |  | 3434         | Electric lighting and wiring equip    | 36   |
|      |   |      |  | 0.0.         | ment-manufacturing.                   |      |
|      |   |      |  | 3435         | Radio and television receiving sets   | 36   |
|      |   |      |  | 3 133        | (except communication types)          | 50   |
|      |   |      |  |              | manufacturing.                        |      |
|      |   |      |  | 3/136        | Communication equipment manu          | 36   |
|      |   |      |  | 3+30         | facturing.                            | 30   |
|      |   |      |  | 2/27         | Electronic components and acces-      | 36   |
|      |   |      |  | 3437         | sories manufacturing.                 |      |
|      |   |      |  | 2420         | Other electrical machinery, equip     | 36   |
|      |   |      |  | 3439         |                                       | - 30 |
|      |   |      |  |              | ment, and supplies manufactur-        |      |
|      |   |      |  |              | — ing, NEC.                           |      |
|      |   | 344  | Transportation equipmentman-                 | 3441         | Motor vehicles and motor vehicle      | 37   |
|      |   |      | ufacturing.                                  |              | equipment manufacturing.              |      |
|      |   |      |  | 3442         | Aircraft and parts manufacturing.     | 37   |
|      |   |      |  | 3443         | Ship and boat building and repairing. | 37   |
|      |   |      |  | 3444         | Railroad equipment manufacturing.     | 37   |
|      |   |      |  | 3445         | Motorcycles, bicycles, and parts      | 37   |
|      |   |      |  | 35           | manufacturing.                        | ٠,   |
|      |   |      |  | 3449         | _                                     | 37   |
|      |   |      |  | 3117         | manufacturing, NEC.                   | 51   |
|      |   | 349  | Other fabricated metal products              | 3491         | Metal cans manufacturing.             | 34   |
|      |   | 377  |  | 3491<br>3492 | Cutlery, hand tools, and general      |      |
|      |   |      | manufacturing, NEC.                          | 3492         | Cuticity, mand toors, and general     | 34   |

| 3493     | Heating apparatus (except electri            | <del>343</del> |
|----------|--|----------------|
|          | cal) and plumbing fixtures man               |                |
| 3/10/    | ufacturing. Fabricated structural metal prod | 344            |
| 3494     | ucts manufacturing.                          | <del>344</del> |
| <br>3495 | Screw machine products and bolts,            | 345            |
|          | nuts, screws, rivets, and washers            |                |
|          | manufacturing.                               |                |
| 3496     | Metal stamping manufacturing.                | <del>346</del> |
| 3497     | Coating, engraving, and allied serv          | 347            |
|          | <del>ices.</del>                             |                |
| 3498     | Fabricated wire products (miscella-          | 348            |
|          | neous products) manufacturing.               |                |
| <br>3499 | Other fabricated metal products              | 349            |
|          | manufacturing, NEC.                          |                |

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|      |  |      |   |      |                                      | SIC                    |
|------|--|------|---|------|--------------------------------------|------------------------|
| Code | Category                                 | Code | Category                                  | Code | Category                             | Reference <sup>4</sup> |
| 35   | Professional, scientific, and            | 351  | Engineering, laboratory, and sci          | 3510 | Engineering, laboratory, and scien   | 381                    |
|      | controlling instruments:                 |      | entific and research instruments          |      | tific and research instruments and   |                        |
|      | photographic and optical                 |      | and associated equipment                  |      | associated equipment manufac-        |                        |
|      | goods; watches and clocks manufacturing. |      | manufacturing.                            |      | <del>turing.</del>                   |                        |
|      |  | 352  | Instruments for measuring, con            | 3521 | Mechanical measuring and control     | 3821                   |
|      |  |      | trolling, and indicating physical         |      | ling instruments (except automatic   |                        |
|      |  |      | characteristics manufacturing.            |      | temperature controls) manufac        |                        |
|      |  |      |   |      | turing.                              |                        |
|      |  |      |   | 3522 | Automatic temperature controls       | 3822                   |
|      |  |      |   |      | manufacturing.                       |                        |
|      |  | 353  | Optical instruments and lenses            | 3530 | Optical instruments and lenses       | 383                    |
|      |  |      | manufacturing.                            |      | manufacturing.                       |                        |
|      |  | 354  | Surgical, medical, and dental in          | 3541 | Surgical and medical instruments     | 3841                   |
|      |  |      | struments and suppliesmanu-<br>facturing. |      | and apparatus—manufacturing.         |                        |
|      |  |      | ractaring.                                | 3542 | Orthopedic, prosthetic, and surgical | 3842                   |
|      |  |      |   | 3342 | appliances and supplies manufac      | 3042                   |
|      |  |      |   |      | turing.                              |                        |
|      |  |      |   | 3543 | Dental equipment and supplies        | 3843                   |
|      |  |      |   | 3343 | manufacturing.                       | 3043                   |
|      |  | 355  | Ophthalmic goods manufactur ing.          | 3550 | Ophthalmic goods manufacturing.      | <del>385</del>         |
|      |  | 356  | Photographic equipment and sup            | 3560 | Photographic equipment and sup       | 386                    |
|      |  |      | pliesmanufacturing.                       |      | pliesmanufacturing.                  |                        |
|      |  | 357  | Watches, clocks, clockwork oper           | 3570 | Watches, clocks, clockwork operated  | 387                    |
|      |  |      | ated devices, and parts manu facturing.   |      | devices, and parts manufacturing.    |                        |
|      |  |      |   |      |                                      |                        |

| ing, NEC. |     | ware manufacturing.                    |      | <del>facturing.</del>               |                 |
|-----------|-----|--|------|-------------------------------------|-----------------|
|           |     |  | 3912 | Jewelers' findings and materials    | <del>3912</del> |
|           |     |  |      | <del>manufacturing.</del>           |                 |
|           |     |  | 3913 | Lapidary work.                      | 3913            |
|           |     |  | 3914 | Silverware and plated ware manu     | 3914            |
|           |     |  |      | facturing.                          |                 |
|           | 392 | Musical instruments and parts          | 3920 | Musical instruments and parts       | <del>393</del>  |
|           |     | manufacturing.                         |      | manufacturing.                      |                 |
|           | 393 | Toys, amusement, sporting, and         | 3930 | Toys, amusement, sporting, and      | <del>394</del>  |
|           |     | athletic goodsmanufacturing.           | 3730 | athletic goods-manufacturing.       | 371             |
|           |     |  |      |                                     |                 |
|           | 394 | Pens, pencils, and other office        | 3940 | Pens, pencils, and other office and | <del>395</del>  |
|           |     | and artists' materials manu facturing. |      | artists' materials manufacturing.   |                 |
|           |     |  |      |                                     |                 |
|           | 395 | Costume jewelry, costume novel-        | 3950 | Costume jewelry, costume novelties, | <del>396</del>  |
|           |     | ties, buttons, and miscellaneous       |      | buttons, and miscellaneous notions  |                 |
|           |     | notions (except precious metals)       |      | (except precious metals) manu-      |                 |
|           |     | manufacturing.                         |      | <del>facturing.</del>               |                 |
|           | 396 | Tobacco manufacturing.                 | 3961 | Cigarettes manufacturing.           | <del>211</del>  |
|           |     |  | 3962 | Cigarsmanufacturing.                | 212             |
|           |     |  | 3963 | Tobacco (chewing and smoking) and   | 213             |
|           |     |  |      | snuff manufacturing.                |                 |
|           |     |  | 3964 | Tobacco stemming and redrying.      | 214             |
|           | 397 | Motion picture production.             | 3970 | Motion picture production.          | 7811            |

| Code | Category                                     | Code | Category                                | Code | Category  | Reference <sup>1</sup> |
|------|--|------|---|------|---|------------------------|
| 39   | Miscellaneous manufactur ing, NEC-Continued. |      | er miscellaneous manufactur<br>eg, NEC. | 3991 | Brooms and brushes manufactur   | 3981                   |
|      | ing, 14BC -Continued.                        | **   | g, ivic.                                | 3992 | — ing.  Linoleum, asphalted felt base, and  other hard surface floor cover  manufacturing, NEC. | <del>3982</del>        |
|      |  |      |   | 3993 | Matches manufacturing.  | 3983                   |
|      |  |      |   | 3994 | Lamp shades manufacturing.  | <del>3987</del>        |
|      |  |      |   | 3995 | Mortician's goods-manufacturing.  | 3988                   |
|      |  |      |   | 3996 | Fur dressing and dyeing   | <del>3992</del>        |
|      |  |      |   | 3997 | Signs and advertising displays manufacturing.   | <del>3993</del>        |
|      |  |      |   | 3998 | Umbrellas, parasols, and canes manufacturing.   | <del>3995</del>        |
|      |  |      |   | 3000 | Other miscellaneous manufacturing.  | 3984 and               |

|                                  |     |                                    |      | NEC.                                  | 3999 |
|----------------------------------|-----|------------------------------------|------|---------------------------------------|------|
| 41 Railroad, rapid rail transit, | 411 | Railroad transportation.           | 4111 | Railroad right of way (excluding      |      |
| and street railway trans         |     |                                    |      | switching and marshaling yards).      |      |
| portation.                       |     |                                    | 4112 | Railroad switching and marshaling     |      |
| portution.                       |     |                                    | 1112 | yards.                                |      |
|                                  |     |                                    | 4113 | Railroad terminals (passenger).       |      |
|                                  |     |                                    |      | Railroad terminals (freight).         |      |
|                                  |     |                                    |      | Railroad terminals (passenger and     |      |
|                                  |     |                                    | 1113 | freight).                             |      |
|                                  |     |                                    | 4116 | Railroad equipment and mainte         |      |
|                                  |     |                                    | 4110 | — nance.                              |      |
|                                  |     |                                    | 4119 | Other railroad transportation, NEC.   |      |
|                                  |     |                                    | 7117 | Other ramoud transportation, 142C.    |      |
|                                  | 412 | Rapid rail transit and street rail | 4121 | Rapid rail transit and street railway |      |
|                                  | 712 | way transportation.                | 4121 | right of way.2                        |      |
|                                  |     | way transportation.                |      | light of way.2                        |      |
|                                  |     |                                    | 4122 | Rapid rail transit and street railway |      |
|                                  |     |                                    |      | passenger terminals.3                 |      |
|                                  |     |                                    | 4123 | Rapid rail transit and street railway |      |
|                                  |     |                                    |      | equipment maintenance.                |      |
|                                  |     |                                    | 4129 | Other rapid rail transit and street   |      |
|                                  |     |                                    |      | railway transportation, NEC.          |      |
| 12 Motor vehicle transporta      | 421 | Bus transportation.                | 4211 | Bus passenger terminals (intercity).4 |      |
| tion.                            |     |                                    |      | Bus passenger terminals (local).4     |      |
|                                  |     |                                    |      | Bus passenger terminals (intercity    |      |
|                                  |     |                                    | .210 | and local).4                          |      |
|                                  |     |                                    | 4214 | Bus garaging and equipment mainte     |      |
|                                  |     |                                    | .21. | nance.                                |      |
|                                  |     |                                    | 4219 | Other bus transportation, NEC.        |      |
|                                  |     |                                    | 121) | Salet Sas dansportation, 1120.        |      |
|                                  | 422 | Motor freight transportation.      | 4221 | Motor freight terminals.              |      |
|                                  |     |                                    | 4222 | Motor freight garaging and equip      |      |
|                                  |     |                                    |      | ment maintenance.                     |      |
|                                  |     |                                    | 4229 | Other motor freight transportation,   |      |
|                                  |     |                                    |      | —NEC.                                 |      |

#### **FOOTNOTES**

– The SIC codes are listed for purposes of reference. The are the codes in the SIC system that most nearly correspond to the 4-digit land use activity indicated. (See ch. III, Sec. A3, "The Use of Standard Industrial Classification Nomenclature.") A dash indicates that there is no corresponding SIC code.

|               |                              |      |                                    |              |                                     | SIC                    | La              |
|---------------|------------------------------|------|------------------------------------|--------------|-------------------------------------|------------------------|-----------------|
| Code          | Category                     | Code | Category                           | Code         | Category                            | Reference <sup>1</sup> | <del>-Cla</del> |
|               |                              |      |                                    |              |                                     |                        |                 |
| 42            | Motor vehicle transporta     | 429  | Other motor vehicle transporta     | 4291         | Taxicab transportation.             | 4121                   |                 |
|               | tion Continued               |      | tion, NEC.                         | 4299         | Other motor vehicle transportation, |                        |                 |
|               |                              |      |                                    |              | NEC.                                |                        |                 |
| <del>43</del> | Aircraft transportation.     | 431  | Airports and flying fields.        | 4311         | Airport and flying field landing/   |                        |                 |
|               |                              |      | 1 , &                              |              | takeoff fields.                     |                        |                 |
|               |                              |      |                                    | 4312         | Airport and flying field terminals  |                        |                 |
|               |                              |      |                                    |              | <del>(passenger).</del>             |                        |                 |
|               |                              |      |                                    | 4313         | Airport and flying field terminals  |                        |                 |
|               |                              |      |                                    | .010         | (freight).                          |                        |                 |
|               |                              |      |                                    | 4314         | Airport and flying field terminals  |                        |                 |
|               |                              |      |                                    | 4314         | (passenger and freight).            |                        |                 |
|               |                              |      |                                    | 4315         | Aircraft storage and equipment      |                        |                 |
|               |                              |      |                                    | 7313         | maintenance.                        |                        |                 |
|               |                              |      |                                    | 4319         | Other airports and flying fields,   |                        |                 |
|               |                              |      |                                    | 4319         | — NEC.                              |                        |                 |
|               |                              | 420  | Other sineseft towns a station     | 4201         |                                     |                        | 1               |
|               |                              | 439  | Other aircraft transportation,     |              | Heliport landing/takeoff pads.5     |                        | $\neg$          |
|               |                              |      | NEC.                               | 4399         | Other aircraft transportation, NEC. |                        |                 |
| 44            | Marine craft transporta      | 441  | Marine terminals.7                 | 4411         | Marine terminals (passenger).8      |                        |                 |
|               | tion.8                       |      |                                    | 4412         | Marine terminals (freight).         |                        |                 |
|               |                              |      |                                    | 4413         | Marine terminals (passenger and     |                        |                 |
|               |                              |      |                                    |              | freight).                           |                        |                 |
|               |                              |      |                                    | 4414         | Marine terminals (commercial fish   |                        |                 |
|               |                              |      |                                    |              | <del>ing).</del>                    |                        |                 |
|               |                              |      |                                    | 4419         | Other marine terminals, NEC.        |                        |                 |
|               |                              | 449  | Other marine craft transportation, | 4490         | Other marine craft transportation,  |                        |                 |
|               |                              |      | NEC.                               |              | NEC.                                |                        |                 |
| 45 High       | vor and studet wight of way  | 451  | Етомическа                         | 4510         | Emagyyaya 0                         |                        | 1               |
| 43 High       | way and street right of way. |      | Freeways.                          | 4510<br>4520 | Freeways.9                          |                        |                 |
|               |                              | 452  | Expressways.                       | 4520         | Expressways.10                      |                        |                 |
|               |                              | 453  | Parkways.                          | 4530         | Parkways.11                         |                        |                 |
|               |                              | 454  | Arterial streets.                  | 4540         | Arterial streets.12                 |                        |                 |
|               |                              | 455  | Collector/distributor streets.     | 4550         | Collector/distributor streets.13    |                        |                 |
|               |                              | 456  | Local access streets.              | 4560         | Local access streets.14             |                        |                 |
|               |                              | 457  | Alleys.                            |              | Alleys.15                           | <del></del>            |                 |
|               |                              | 459  | Other highway and street right of  | 4590         | Other highway and street right of   |                        | $\dashv$        |
|               |                              |      | way, NEC.                          |              | way, NEC.                           |                        |                 |
| 46 Autor      | mobile parking.              | 460  | Automobile parking.                | 4600         | Automobile parking.16               |                        |                 |
|               | 1 0                          |      | 1 0                                |              | 1 0                                 |                        |                 |
| 47 Com        | nunication.                  | 471  | Telephone communication.           | 4711         | Telephone exchange stations.        |                        | ]               |
|               |                              |      |                                    | 4712         | Telephone relay towers (microwave). |                        |                 |
|               |                              |      |                                    | 4719         | Other telephone communication,      | <del></del>            |                 |
|               |                              |      |                                    |              | NEC.                                |                        |                 |
|               |                              | 472  | Telegraph communication.           | 4721         | Telegraph message centers.          |                        |                 |
|               |                              | 772  | 1010gruph communication.           | 4722         | Telegraph transmitting and receiv   |                        |                 |
|               |                              |      |                                    | +122         | ing stations (only).                |                        |                 |
|               |                              |      |                                    | 4729         |                                     |                        |                 |
|               |                              |      |                                    | 4129         | Other telegraph communication,      |                        |                 |
|               |                              | 472  | Dodio communication                | 4721         | NEC.                                |                        |                 |
|               |                              | 473  | Radio communication.               | 4731         | Radio broadcasting studios (only).  |                        |                 |

|   |  | 4732         | Radio transmitting stations and towers. Other radio communication, NEC.       |
|---|--|--------------|---|
| 4 | 174 Television communication.                              | 4741<br>4742 | Television broadcasting studios (only).  Television transmitting stations and |
|   |  | 4749         | relay towers.  Other television communication,  NEC.                          |
| 4 | 175 Radio and television communication (combined systems). | 4751         | Radio and television broadcasting studios, only (combined systems).           |
|   |  | 4759         | Other combined radio and television communication, NEC.                       |
| 4 | 179 Other communication, NEC.                              | 4790         | Other communication. NEC.   |

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| Code    | Category | Code | Category                        | Code | Category                              | SIC<br>Referen |
|---------|----------|------|---------------------------------|------|---------------------------------------|----------------|
|         |          |      |                                 |      |                                       |                |
| 48 Util | ities    | 481  | Electric utility.               | 4811 | Electric transmission right of way.17 |                |
|         |          |      |                                 |      | Electric generation plants.           |                |
|         |          |      |                                 |      | Electricity regulating substations.   |                |
|         |          |      |                                 | 4819 | Other electric utility, NEC.          |                |
|         |          | 482  | Gas utility.                    | 4821 | Gas pipeline right-of-way.17          |                |
|         |          |      | -                               | 4822 | Gas production plants.                |                |
|         |          |      |                                 |      | Natural or manufactured gas storage   |                |
|         |          |      |                                 |      | and distribution points.              |                |
|         |          |      |                                 | 4824 |                                       |                |
|         |          |      |                                 | 4829 | Other gas utilities, NEC.             |                |
|         |          | 483  | Water utilities and irrigation. | 4831 | Water pipeline right of way.17        |                |
|         |          |      |                                 |      | Water treatment plants (purifica      |                |
|         |          |      |                                 |      | <del>tion).</del>                     |                |
|         |          |      |                                 | 4833 | Water storage.18                      |                |
|         |          |      |                                 | 4834 | Irrigation distribution channels.     |                |
|         |          |      |                                 | 4835 | Water pressure control stations.      |                |
|         |          |      |                                 | 4839 | Other water utilities and irrigation, |                |
|         |          |      |                                 |      | NEC.                                  |                |
|         |          | 484  | Sewage disposal.                | 4841 | Sewage treatment plants.              |                |
|         |          |      |                                 |      | Sewage sludge drying beds.            |                |
|         |          |      |                                 | 4843 | Sewage pressure control stations.     |                |
|         |          |      |                                 |      | Other sewage disposal, NEC.           |                |
|         |          | 485  | Solid waste disposal.           | 4851 | Refuse incineration.                  |                |
|         |          |      | 1                               | 4852 | Central garbage grinding stations.    |                |
|         |          |      |                                 |      | Compositing plants.                   |                |
|         |          |      |                                 | 4854 | Sanitary landfills.                   |                |

|  |  |  | 4855   | Refuse disposals.   |                    |
|--|--|--|--|---|--------------------|
|  |  |  | 4856   | Industrial waste disposals.   | _                  |
|  |  |  |  |   |                    |
|  |  |  | 485 /  | Active slag dumps and mineral waste disposals.  |                    |
|  |  |  | 4859   | Other solid waste disposal, NEC.  |                    |
|  | 489  | Other utilities, NEC.  | 4890   | Other utilities, NEC.   |                    |
| 49 Other transportation, com   | 491  | Other pipeline right of way an   | d 4911   | Petroleum pipeline right of way.17  |                    |
| munication, and utilities,   |  | pressure control stations, NE  |  | Petroleum pressure control stations.  |                    |
| NEC.   |  |  |  | Other pipeline right of way and pres  |                    |
|  |  |  |  | sure control stations, NEC.   |                    |
|  | 492  | Transportation services and arrangements.  | 4921   | Freight forwarding services.  | — 4041 a<br>— 4712 |
|  |  |  | 4922   | Packing and crating services.   | 4783               |
|  |  |  | 4923   | Travel arranging services.  | 472                |
|  |  |  | 4924   | Transportation ticket services. 18  |                    |
|  |  |  |  | Other transportation services and   |                    |
|  |  |  |  | arrangements, NEC.  |                    |
|  | 499  | Other transportation, communi  | ca 4900  | Other transportation, communica   |                    |
|  |  | tion, and utilities, NEC.  |  | tion, and utilities, NEC.   |                    |
|  |  |  | <sup>5</sup> Code 439  | 1—"Heliport landing/takeoff pads" are   |                    |
| COOTNOTES  dentified only  The SIC codes are listed for purposes   | s of refere  | ence. They are the   |  | '1—"Heliport landing/takeoff pads" are eparate activities and not a part of code  |                    |
| dentified only  The SIC codes are listed for purposes 31, "Airports  |  | •  | when they are s  | eparate activities and not a part of code   |                    |
| lentified only — <sup>1</sup> The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly co   | orrespond  | I to the 4 digit   | when they are so   | eparate activities and not a part of code   |                    |
| lentified only   | orrespond  | I to the 4 digit   | when they are so   | eparate activities and not a part of code   |                    |
| lentified only  The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly cound use activity indicated. (See ch. III, Semaintenance and rd Industrial Classification Nomenclature.   | orrespond<br>c. A3, "T   | I to the 4 digit<br>The Use of Stand   | when they are s and flying field Code 44   | eparate activities and not a part of code   |                    |
| lentified only  The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly cound use activity indicated. (See ch. III, Semaintenance and rd Industrial Classification Nomenclature, oat building  | orrespond<br>c. A3, "T   | I to the 4 digit<br>The Use of Stand   | when they are s and flying field fCode 44 repair of marin  | eparate activities and not a part of code  3."  "Marine craft transportation." The  ne craft should be coded 3443, "Ship and  |                    |
| lentified only  The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly count use activity indicated. (See ch. III, Semaintenance and rd Industrial Classification Nomenclature, out building mere is no corresponding SIC code.   | e. A3, "T  | to the 4 digit The Use of Stand h indicates that   | when they are s  and flying field  "Code 44  repair of marin  and repairing."  | eparate activities and not a part of code  3."  "Marine craft transportation." The  ne craft should be coded 3443, "Ship and  |                    |
| lentified only  The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly count use activity indicated. (See ch. III, Semaintenance and red Industrial Classification Nomenclature, out building here is no corresponding SIC code.  2Code 4121 "Rapid rail transit and st   | e. A3, "T  | to the 4 digit The Use of Stand h indicates that   | when they are s  and flying field  "Code 44  repair of marin  and repairing."  | eparate activities and not a part of code  3."  "Marine craft transportation." The  ne craft should be coded 3443, "Ship and  |                    |
| lentified only  ——  The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly count use activity indicated. (See ch. III, Semaintenance and red Industrial Classification Nomenclature. oat building here is no corresponding SIC code.  ——  Code 4121 "Rapid rail transit and stacilities (e.g., heludes only that land which is not within-  | e. A3, "T") A das  | to the 4 digit The Use of Stand h indicates that vay right of way"   | when they are s  and flying field  "Code 44  repair of marin  and repairing."   *Code 441  | eparate activities and not a part of code  3."  "Marine craft transportation." The  ne craft should be coded 3443, "Ship and  |                    |
| lentified only   | e. A3, "T ") A das reet railw  | h indicates that  yay right of way"  | when they are s  and flying fields  "Code 44  repair of marin  and repairing."  "Code 441  wharves, piers  | "Marine craft transportation." The ne craft should be coded 3443, "Ship and "Marine terminals" include all docking , and docks) and associated areas that are   |                    |
| lentified only  ——  The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly count use activity indicated. (See ch. III, Semaintenance and red Industrial Classification Nomenclature. one building here is no corresponding SIC code.  ——  Code 4121 "Rapid rail transit and stacilities (e.g., heludes only that land which is not withing sed by com- vithin a public street right of way). Railro heilities that  | orresponde. A3, "T"  A das  reet railw  public right   | to the 4 digit The Use of Stand  h indicates that  vay right of way''  ght of way (e.g.,   | when they are s  and flying fields  "Code 44  repair of marin  and repairing."  "Code 441  wharves, piers  | "Marine terminals" include all docking  |                    |
| lentified only  — <sup>1</sup> The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly count use activity indicated. (See ch. III, Semaintenance and rd Industrial Classification Nomenclature. one building here is no corresponding SIC code.  — <sup>2</sup> Code 4121 "Rapid rail transit and stacilities (e.g., heludes only that land which is not within sed by compitted by compitation and public street right of way). Railro acilities that apid rail transit is considered to be railroace.  | orresponde. A3, "T"  A das  reet railw  public right   | to the 4 digit The Use of Stand  h indicates that  vay right of way''  ght of way (e.g.,   | when they are s  and flying fields  - *Code 44  repair of marin  and repairing.*  - *Code 441  wharves, piers  mercial passer  | "Marine craft transportation." The ne craft should be coded 3443, "Ship and "Marine terminals" include all docking , and docks) and associated areas that are   |                    |
| lentified only  — <sup>1</sup> The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly count use activity indicated. (See ch. III, Semaintenance and rd Industrial Classification Nomenclature. one building here is no corresponding SIC code.  — <sup>2</sup> Code 4121 "Rapid rail transit and stacilities (e.g., helades only that land which is not within sed by compilities that apid rail transit is considered to be railroad lentified under   | orresponde. A3, "T"  A das  reet railw  public right   | to the 4 digit The Use of Stand  h indicates that  vay right of way''  ght of way (e.g.,   | when they are s  and flying fields  - *Code 44  repair of marin  and repairing.*  - *Code 441  wharves, piers  mercial passer  primarily serve   | "Marine craft transportation." The ne craft should be coded 3443, "Ship and "Marine terminals" include all docking , and docks) and associated areas that are neger, freight, and fishing craft. Docking  |                    |
| lentified only  ——  The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly count use activity indicated. (See ch. III, Semaintenance and red Industrial Classification Nomenclature, one building here is no corresponding SIC code.  ——  "Code 4121—"Rapid rail transit and stacilities (e.g., heludes only that land which is not within seed by combitities that upid rail transit is considered to be railroad lentified under 111.   | orresponde. A3, "T"  ") A das  reet railw  public right of                                     | I to the 4 digit The Use of Stand  I h indicates that  | when they are s  and flying fields  -*Code 44  repair of marin  and repairing.*  -**Code 441  wharves, piers  mercial passer  primarily serve  code 744, "Me                           | "Marine craft transportation." The ne craft should be coded 3443, "Ship and  "Marine terminals" include all docking , and docks) and associated areas that are neger, freight, and fishing craft. Docking e recreational type of marine craft are |                    |
| lentified only  — <sup>1</sup> The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly condusted the side of the | orresponde. A3, "T"  ") A das  reet railw  public right of                                     | I to the 4 digit The Use of Stand  I h indicates that  | when they are s  and flying fields  -*Code 44  repair of marin  and repairing.*  -**Code 441  wharves, piers  mercial passer  primarily serve  code 744, "Me                           | "Marine craft transportation." The ne craft should be coded 3443, "Ship and "Marine terminals" include all docking , and docks) and associated areas that are neger, freight, and fishing craft. Docking  |                    |
| lentified only  — <sup>1</sup> The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly cound use activity indicated. (See ch. III, Senaintenance and red Industrial Classification Nomenclature. oat building here is no corresponding SIC code.  — <sup>2</sup> Code 4121 "Rapid rail transit and st activities (e.g., heludes only that land which is not within seed by compitthin a public street right of way). Railro activities that apid rail transit is considered to be railroadentified under 111.  — <sup>3</sup> Code 4122 "Rapid rail transit and st helude ferry terminals. hinals" identifies only those terminals that  | orresponder. A3, "T"  ") A dasserved railward right of the rectally area of the rectally area. | I to the 4 digit The Use of Stand  I h indicates that  I h indicat | when they are s  and flying field  "Code 44  repair of marir  and repairing."  — <sup>2</sup> Code 441  wharves, piers  mercial passer  primarily serve  code 744, "Me  - *Code 441    | "Marine craft transportation." The ne craft should be coded 3443, "Ship and  "Marine terminals" include all docking , and docks) and associated areas that are neger, freight, and fishing craft. Docking e recreational type of marine craft are |                    |
| dentified only  — 'The SIC codes are listed for purposes 31, "Airports odes in the SIC system that most nearly or and use activity indicated. (See ch. III, Senaintenance and red Industrial Classification Nomenclature, worth building here is no corresponding SIC code.  — 'Code 4121 "Rapid rail transit and stacilities (e.g., necludes only that land which is not withinsed by comvithin a public street right of way). Railro acilities that apid rail transit is considered to be railroad dentified under   | orresponde. A3, "T"  ") A das  reet railw  public right of  tright of  reet railw  are not le  | I to the 4 digit The Use of Stand In indicates that  I to the 4 digit The Use of Stand I h indicates that  I way right of way"  I way right of way  I way used by  I way and is coded  I way passenger ter  I ocated within  | when they are s  and flying field  "Code 44  repair of marin and repairing."  - **Code 441  wharves, piers  mercial passer  primarily serve  code 744, "Mare  **Code 441  - **Code 441 | "Marine terminals" include all docking , and docks) and associated areas that are neger, freight, and fishing craft. Docking e recreational type of marine craft are nrinas," 1 "Marine terminals (passenger)"                                    |                    |

traffic with full or partial control of access with grade

Footnotes continued on following page.

major crossroads.

for through

separations at

within a public street right of way).

those terminals that are not located on the public right of way (e.g.,

| ith full or partial control of access. T           | hey are locate             | commercial traffic, 17 pa   | This code includes r   | parking on open lots, parking within  |  |
|--|----------------------------|---|--|---|--|
| arking strue                                       | e, are rocan               | a pair  | code menuces p   | on open row, parking within   |  |
| <del>r within a ribbon of parklike develop</del> i | ment                       | tures parking   | within structures th   | at also house other activities (e.g.,   |  |
| - <sup>12</sup> Code 4540"Arterial streets" ar     |                            |   |  | office building), and the parking area at   |  |
|  | e triose streets           | which serve move-   | <del>parking area in an c</del>  | ornee bunding), and the parking area at   |  |
| hopping  |                            |   | t D. d.i   |   |  |
| nents of traffic and are not freeways,             | expressways, a             | and parkways.   | enters. Parking are  | eas of less than 5,000 square feet are not  |  |
| <del>dentified</del>                               |                            |   |  |   |  |
| Generally there is no control of access            |                            |   | as a separate a  |   |  |
|  | tor streets" are           | e those streets that  | <del>*</del> *€€   | odes 4811, 4821, 4831, 4911 These codes   |  |
| dentify those areas                                |                            |   |  |   |  |
| ollect traffic from the local streets and          | <del>l channel it in</del> | to the arterial   | where the  | surface is devoted exclusively to the   |  |
| ight-of-way of the respec                          |                            |   |  |   |  |
| ystem. These streets also provide nec              | essary cross c             | connections be  |  | ities and is used for no other purposes.  |  |
| ween arterials. The collector/distribut            | or street does             | not handle long   | <sup>18</sup> Cc   | ode 4833 "Water storage" includes   |  |
| mpounded surface water                             |                            |   |  |   |  |
| hrough trips, and it is not continuous t           | for any great l            | ength.  | areas or w   | vater tanks used for storage. Lakes or  |  |
| other natural water                                | -                          |   |  | <del>-</del>  |  |
| <sup>14</sup> Code 4560 "Local access stree        | ts" are those t            | used primarily for  | formation  | s are identified under code 93, "Water  |  |
| reas."   |                            | r J   |  |   |  |
| ccess to residences, businesses, or oth            | er abutting ac             | etivities.  | <sup>19</sup> Ce   | ode 4924 "Transportation ticket services"   |  |
| nclude the ticket                                  | uounning uc                |   | CC   |   |  |
|  | narrow street              | e usually without   | offices of   | any of the transportation systems. The  |  |
| cket offices are                                   | narrow street              | o ascarry writted   | - United Of  | any of the transportation systems. The  |  |
| idewalks and on which building adjoi               | C 41                       | :   |  |   |  |
| <sup>16</sup> Code 4600 "Automobile parki          |                            |   | located w  | ithin one of the transportation terminals.  |  |
| treet parking that is 5,000 square feet            | or greater (or             | approximately   |  |   |  |
| Coda Catagory                                      | Coda                       |   | Code   | Catagory  | SI<br>Pafar  |
|  | Code                       | Category  | Code   | - Category  | SI<br>Refer  |
| Code Category                                      | Code                       |   | Code   | - Category  | SI<br>Refer  |
| Code Category  51 Wholesale trade.2                | — Code                     |   |  | Category  Automobiles and other motor vehi  | SI Refer   |
|  |                            | Category  Motor vehicles and automotive   |  |   | v  |
|  |                            | Category  |  | Automobiles and other motor vehi  | v  |
|  |                            | Category  Motor vehicles and automotive   | ve 5111  | — Automobiles and other motor vehi————————————————————————————————————  | 5012   |
|  |                            | Category  Motor vehicles and automotive   | ye 5111<br>5112  | Automobiles and other motor vehi  | 5012<br>5013   |
|  |                            | Category  Motor vehicles and automotive equipment—wholesale.  | 5111<br>5112<br>5113   | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  | 5012<br>5013   |
|  | 511                        | Category  Motor vehicles and automoticles equipment—wholesale.  Drugs, chemicals, and allied  | 5111<br>5112<br>5113   | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and drug  | 5012<br>5013<br>5014   |
|  | 511                        | Category  Motor vehicles and automotive equipment—wholesale.  | 5111<br>5112<br>5113<br>5121   | Automobiles and other motor vehicles—wholesale. Automotive equipment—wholesale. Tires and tubes—wholesale.  Drugs, drug proprietaries and drug—gists' sundries—wholesale.   | 5012<br>5013<br>5014<br>5022   |
|  | 511                        | Category  Motor vehicles and automoticles equipment—wholesale.  Drugs, chemicals, and allied  | 5111<br>5112<br>5113<br>5121<br>5122   | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.   | 5012<br>5013<br>5014<br>5022<br>5028   |
|  | 511                        | Category  Motor vehicles and automoticles equipment—wholesale.  Drugs, chemicals, and allied  | 5111<br>5112<br>5113<br>5121   | Automobiles and other motor vehicles - wholesale.  Automotive equipment - wholesale.  Tires and tubes - wholesale.  Drugs, drug proprietaries and druggists' sundries - wholesale.  Paints and varnishes - wholesale.  Other drugs, chemicals, and allied   | 5012<br>5013<br>5014<br>5022   |
|  | 511                        | Category  Motor vehicles and automoticles equipment—wholesale.  Drugs, chemicals, and allied  | 5111<br>5112<br>5113<br>5121<br>5122   | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.   | 5012<br>5013<br>5014<br>5022<br>5028   |
|  | 511                        | Category  Motor vehicles and automotive quipment—wholesale.  Drugs, chemicals, and allied products—wholesale.   | 5111<br>5112<br>5113<br>5121<br>5122<br>5129   | Automobiles and other motor vehicles—wholesale. Automotive equipment—wholesale. Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale. Paints and varnishes—wholesale. Other drugs, chemicals, and allied products, wholesale, NEC.   | 5012<br>5013<br>5014<br>5022<br>5028<br>5029                                 |
|  | 511                        | Category  Motor vehicles and automotive quipment—wholesale.  Drugs, chemicals, and allied products—wholesale.  Dry goods and apparel—wholesale.                               | 5111<br>5112<br>5113<br>5121<br>5122<br>5129   | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notions   | 5012<br>5013<br>5014<br>5022<br>5028   |
|  | 511                        | Category  Motor vehicles and automotive quipment—wholesale.  Drugs, chemicals, and allied products—wholesale.   | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131   | Automobiles and other motor vehicles—wholesale. Automotive equipment—wholesale. Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale. Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale.   | 5012<br>5013<br>5014<br>5022<br>5028<br>5029                                 |
|  | 511                        | Category  Motor vehicles and automotive quipment—wholesale.  Drugs, chemicals, and allied products—wholesale.  Dry goods and apparel—wholesale.                               | 5111<br>5112<br>5113<br>5121<br>5122<br>5129   | Automobiles and other motor vehicles—wholesale. Automotive equipment—wholesale. Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale. Paints and varnishes—wholesale. Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale. Apparel and accessories, hosiery, and  | 5012<br>5013<br>5014<br>5022<br>5028<br>5029                                 |
|  | 511                        | Category  Motor vehicles and automotive quipment—wholesale.  Drugs, chemicals, and allied products—wholesale.  Dry goods and apparel—wholesale.                               | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131   | Automobiles and other motor vehicles—wholesale. Automotive equipment—wholesale. Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale. Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale.   | 5012<br>5013<br>5014<br>5022<br>5028<br>5029                                 |
|  | 511                        | Category  Motor vehicles and automotive quipment—wholesale.  Drugs, chemicals, and allied products—wholesale.  Dry goods and apparel—wholesale.                               | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131   | Automobiles and other motor vehicles—wholesale. Automotive equipment—wholesale. Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale. Paints and varnishes—wholesale. Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale. Apparel and accessories, hosiery, and  | 5012<br>5013<br>5014<br>5022<br>5028<br>5029                                 |
|  | 511                        | Category  Motor vehicles and automotive quipment—wholesale.  Drugs, chemicals, and allied products—wholesale.  Dry goods and apparel—wholesale.                               | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131<br>5132                                 | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and allied products, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale.  Apparel and accessories, hosiery, and lingerie—wholesale.  Footwear—wholesale.   | 5012<br>5013<br>5014<br>5022<br>5028<br>5029<br>5032<br>5035                 |
|  | 511                        | Category  Motor vehicles and automotive quipment—wholesale.  Drugs, chemicals, and allied products—wholesale.  Dry goods and apparel—wholesale.                               | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131<br>5132<br>5133                         | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notionswholesale.  Apparel and accessories, hosiery, and lingerie—wholesale.  Footwear—wholesale.  Groceries (general line)—wholesale.  | 5012<br>5013<br>5014<br>5022<br>5028<br>5029<br>5032<br>5035                 |
|  | 511                        | Category  Motor vehicles and automotive equipment—wholesale.  Drugs, chemicals, and allied products—wholesale.  Dry goods and apparel—wholesale.                              | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131<br>5132<br>5133                         | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and allied products, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale.  Apparel and accessories, hosiery, and lingerie—wholesale.  Footwear—wholesale.   | 5012<br>5013<br>5014<br>5022<br>5028<br>5029<br>5032<br>5035<br>5039         |
|  | 511                        | Category  Motor vehicles and automoticequipment—wholesale.  Drugs, chemicals, and allied-products—wholesale.  Dry goods and apparel—wholesale.  Groceries and related product | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131<br>5132<br>5133                         | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notionswholesale.  Apparel and accessories, hosiery, and lingerie—wholesale.  Footwear—wholesale.  Groceries (general line)—wholesale.  | 5012<br>5013<br>5014<br>5022<br>5028<br>5029<br>5032<br>5035<br>5039<br>5042 |
|  | 511                        | Category  Motor vehicles and automoticequipment—wholesale.  Drugs, chemicals, and allied-products—wholesale.  Dry goods and apparel—wholesale.  Groceries and related product | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131<br>5132<br>5133<br>5141<br>5142         | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale.  Apparel and accessories, hosiery, and—lingerie—wholesale.  Footwear—wholesale.  Groceries (general line)—wholesale.  Dairy products—wholesale.  | 5012 5013 5014 5022 5028 5029 5032 5035 5039 5042 5043                       |
|  | 511                        | Category  Motor vehicles and automoticequipment—wholesale.  Drugs, chemicals, and allied-products—wholesale.  Dry goods and apparel—wholesale.  Groceries and related product | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131<br>5132<br>5133<br>5141<br>5142         | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale.  Apparel and accessories, hosiery, and lingerie—wholesale.  Footwear—wholesale.  Groceries (general line)—wholesale.  Dairy products—wholesale.  Poultry and poultry products—wholesale.   | 5012 5013 5014 5022 5028 5029 5032 5035 5039 5042 5043                       |
|  | 511                        | Category  Motor vehicles and automoticequipment—wholesale.  Drugs, chemicals, and allied-products—wholesale.  Dry goods and apparel—wholesale.  Groceries and related product | 5111<br>5112<br>5113<br>5121<br>5122<br>5129<br>e 5131<br>5132<br>5133<br>5141<br>5142<br>5143 | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and allied products, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale.  Apparel and accessories, hosiery, and—lingerie—wholesale.  Footwear—wholesale.  Groceries (general line)—wholesale.  Dairy products—wholesale.  Poultry and poultry products—wholesale.  Confectionery—wholesale.                              | 5012 5013 5014 5022 5028 5029 5032 5035 5039 5042 5043 5044                  |
|  | 511                        | Category  Motor vehicles and automoticequipment—wholesale.  Drugs, chemicals, and allied-products—wholesale.  Dry goods and apparel—wholesale.  Groceries and related product | ve 5111  5112  5113  5121  5122  5129  e 5131  5132  5133  5141  5142  5143  5144  5145        | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and alliedproducts, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale.  Apparel and accessories, hosiery, and—lingerie—wholesale.  Footwear—wholesale.  Groceries (general line)—wholesale.  Dairy products—wholesale.  Poultry and poultry products—wholesale.  Confectionery—wholesale.  Fish and seafoods—wholesale. | 5012 5013 5014 5022 5028 5029 5032 5035 5039 5042 5043 5044 5045 5046        |
|  | 511                        | Category  Motor vehicles and automoticequipment—wholesale.  Drugs, chemicals, and allied-products—wholesale.  Dry goods and apparel—wholesale.  Groceries and related product | 5111 5112 5113 5121 5122 5129 e 5131 5132 5133 5141 5142 5143 5144 5145 5146                   | Automobiles and other motor vehicles—wholesale.  Automotive equipment—wholesale.  Tires and tubes—wholesale.  Drugs, drug proprietaries and druggists' sundries—wholesale.  Paints and varnishes—wholesale.  Other drugs, chemicals, and allied products, wholesale, NEC.  Dry goods, piece goods, and notions—wholesale.  Apparel and accessories, hosiery, and—lingerie—wholesale.  Footwear—wholesale.  Groceries (general line)—wholesale.  Dairy products—wholesale.  Poultry and poultry products—wholesale.  Confectionery—wholesale.                              | 5012 5013 5014 5022 5028 5029 5032 5035 5039 5042 5043 5044 5045             |

|            |     |                               | 5149 | Other groceries and related products wholesale, NEC.                                       | <del>5049</del> |
|------------|-----|-------------------------------|------|--|-----------------|
| T 1 5051   | 515 | Farm products (raw materials) | 5151 | Cotton wholesale.  |                 |
| Incl. 5051 |     | wholesale.                    | 5152 | Grainwholesale.  |                 |
| Incl. 5051 |     |                               | 5150 |  |                 |
| Incl. 5051 |     |                               | 3133 | Hides, skins, and raw furs whole   |                 |
|            |     |                               |      | <del>sale.</del>   |                 |
| Incl. 5051 |     |                               | 5154 | Leaf tobacco wholesale.  |                 |
|            |     |                               | 5155 | Wool and mohair wholesale.   |                 |
| Incl. 5051 |     |                               | 5156 | Livestock wholesale:   |                 |
| Incl. 5051 |     |                               | 3130 | Divestock wholesale.   |                 |
| . 1 5051   |     |                               | 5157 | Horses and mules wholesale.  |                 |
| Incl. 5051 |     |                               | 5159 | Other farm products wholesale,   |                 |
| Incl. 5051 |     |                               |      |  |                 |
|            |     |                               |      | — NEC.   |                 |
|            | 516 | Electrical goods wholesale.   | 5161 | Electrical apparatus and equipment, wiring supplies, and construction materials wholesale. | <del>5063</del> |
|            |     |                               | 5162 | Electrical appliances, television, and radio sets wholesale.                               | 5064            |
|            |     |                               | 5163 | Electronic parts and equipment wholesale.  | <del>5065</del> |
|            | 517 | Hardware, plumbing, heating   | 5171 | Hardware wholesale.  | 5072            |
|            |     | equipment, and supplies       | 5172 | Plumbing and heating equipment   | 5074            |
|            |     | wholesale.                    | 5173 | and supplies—wholesale.  Air conditioning, refrigerated equip                              | 5077            |
|            |     |                               | 3173 | ment, and supplies wholesale.  | 3011            |

B 13

| Code | Category                     | Code | Category                                 | Code   | Category  | Reference <sup>1</sup> — |
|------|------------------------------|------|--|--|---|--------------------------|
| -51  | Wholesale trade 2  Continued |      | hinery, equipment, and pplies—wholesale. | 5181   | Commercial and industrial machin ery, equipment, and supplies— wholesale. | 5082                     |
|      |                              |      |  | 5182   | Farm machinery and equipment wholesale.                                   | 5083                     |
|      |                              |      |  | 5183   | Professional equipment and supplies wholesale.                            | <del>5086</del>          |
|      |                              |      | 5184                                     | Equipment and supplies for service establishments wholesale.             | <del>5087</del>   |                          |
|      |                              |      | 5185                                     | Transportation equipment and sup lies (except motor vehicles) wholesale. | 5088  |                          |
|      | ·                            | ·    |  | 5189   | Other machinery, equipment, and supplies wholesale, NEC.                  | <del>5089</del>          |

|                             | 519            | Other wholesale trade, NEC.  | 5191  | Metals and minerals (except petro    | 5091            |
|-----------------------------|----------------|------------------------------|-------|--------------------------------------|-----------------|
|                             |                |                              |       | leum products and scrap) whole       |                 |
|                             |                |                              |       | —sale.                               |                 |
|                             |                |                              | 5192  | Petroleum bulk stations and termi    | 5092            |
|                             |                |                              |       | nalswholesale.                       |                 |
|                             |                |                              | 5193  | Scrap and waste materials whole      | 5093            |
|                             |                |                              |       | sale.                                |                 |
|                             |                |                              | 5194  | Tobacco and tobacco products         | 5094            |
|                             |                |                              |       | wholesale.                           |                 |
|                             |                |                              | 5195  | Beer, wine, and distilled alcoholic  | 5095            |
|                             |                |                              |       | beverageswholesale.                  |                 |
|                             |                |                              | 5196  | Paper and paper products whole       | 509€            |
|                             |                |                              |       | <del>sale.</del>                     |                 |
|                             |                |                              | 5197  | Furniture and home furnishings       | 5097            |
|                             |                |                              |       | <del></del>                          |                 |
|                             |                |                              | 5198  |                                      | 5098            |
|                             |                |                              |       | wholesale.                           |                 |
|                             |                |                              | 5199  | Other wholesale trade, NEC.          | 5099            |
| 52 Retail trade building ma | 501            | I yanhon and other best like | 5011  | Lymphon voons metoil                 | 5011            |
|                             | 521            | Lumber and other building ma |       | Lumber years retail                  | <del>5211</del> |
| terials, hardware, and      |                | terials retail.              | 5212  | Building materials retail.           | 5212            |
| farm equipment.             |                |                              |       |                                      |                 |
|                             | 522            | Heating and plumbing equip-  | 5220  | Heating and plumbing equipment       | 522             |
|                             |                | ment retail.                 |       | <del>retail.</del>                   |                 |
|                             | 523            | Paint, glass, and wallpaper  | 5230  | Paint, glass, and wallpaper retail.  | 523             |
|                             | 020            | retail.                      | 0200  | rum, gass, and wanpaper return       | 020             |
|                             |                | ician:                       |       |                                      |                 |
|                             | 524            | Electrical suppliesretail.   | 5240  | Electrical suppliesretail.           | 524             |
|                             | 321            | Electrical supplies Tetali.  | 3210  | Electrical supplies Tetali.          | 321             |
|                             | 525            | Hardware and farm equip      | 5251  | Hardware retail                      | 5251            |
|                             | 323            | ment retail.                 |       | Farm equipment retail.               | 5252            |
|                             |                | ment retain.                 | 3232  | r arm equipment retain.              | 3232            |
| 53 Retail trade general mer | 531            | Department stores retail.    | 5210  | Department stores retail.            | 531             |
| chandise.                   | 331            | Department stores Tetan.     | 3310  | Department stores Tetan.             | 331             |
| <del>Chancise.</del>        | 532            | Mail and a bassas and il     | 5220  | Mell and an harrow metall            | 522             |
|                             | 332            | Mail order houses retail.    | 5320  | Mail order houses retail.            | <del>532</del>  |
|                             | 533            | Limited price variety stores | 5220  | Limited price veriety stores retail  | 533             |
|                             | 333            |                              | 3330  | Limited price variety stores retail. | 333             |
|                             |                | <del>retail.</del>           |       |                                      |                 |
|                             | 534            | Merchandise vending machine  | 5240  | Merchandise vending machine op-      | 534             |
|                             | 334            | E                            | 33/10 | 8                                    | 334             |
|                             |                | operators retail.            |       | <del>erators retail.</del>           |                 |
|                             | 525            | Diment colling one-viti      | 5250  | Direct calling area :                | 525             |
|                             | <del>535</del> | Direct selling organizations | 5350  | Direct selling organizations retail. | <del>535</del>  |
|                             |                | <del>retail.</del>           |       |                                      |                 |
|                             | 539            | Other retail trade-general   | 5391  | Dry goods and general merchan-       | 5392            |
|                             | 337            | merchandise, NEC.            | 3371  | — dise retail.                       | 3392            |
|                             |                | merchandise, ivEC.           | 5392  | General stores retail.               | 5393            |
|                             |                |                              | 3394  | General stores retail.               | 3393            |
| 54 Retail trade food.       | 541            | Groceries (with or without   | 5410  | Groceries (with or without meat)     | 541             |
| . Retail trade 100d.        | 5-11           | meat) retail                 | 5410  | retail.                              | 541             |
|                             |                | ment) Teturi                 |       | icuii.                               |                 |
|                             |                |                              |       |                                      |                 |
|                             | 542            | Meats and fish retail.       | 5421  | Meats retail.                        | 5422            |

| <i>a</i> .      | 6                        | ~ .                     | ~                                | ~ .                     |   | SIC             |
|-----------------|--------------------------|-------------------------|----------------------------------|-------------------------|---|-----------------|
| Code            | Category                 | Code                    | Category                         | Code                    | Category                                      | Referen         |
| 5.1             | Retail trade food        | 542                     | Emits and vegetables noted       | 5420                    | Emits and vacastables, noteil                 | 543             |
| <del>- 34</del> | Continued                | <del>543</del>          | Fruits and vegetables retail.    | 3430                    | Fruits and vegetables retail.                 | 343             |
|                 |                          | 544                     | Candy, nut, and confectionery    | 5440                    | Candy, nut, and confectionery                 | 544             |
|                 |                          |                         | retail.                          |                         | <del>retail.</del>                            |                 |
|                 |                          | 545                     | Dairy products retail.           | 5450                    | Dairy products retail.                        | <del>545</del>  |
|                 |                          | 546                     | Bakeries retail.                 | 5461                    | Bakeries (manufacturing) retail.3             | <del>5462</del> |
|                 |                          |                         |                                  | 5462                    | Bakeries (nonmanufacturing) re                | 5463            |
|                 |                          |                         |                                  |                         | tail.4  |                 |
|                 |                          | 549                     | Other retail trade food, NEC.    | 5491                    | Egg and poultry retail.                       | 5491            |
|                 |                          |                         |                                  | 5499                    | Other retail trade food, NEC.                 | <del>5499</del> |
| -55             | Retail trade automotive, | 551                     | Motor vehicles retail.           | 5511                    | Motor vehicles (new and used cars)            | <del>551</del>  |
|                 | marine craft, aircraft,  |                         |                                  |                         | <del>retail.</del>                            |                 |
|                 | and accessories.         |                         |                                  | 5512                    | Motor vehicles (used cars only)               | <del>552</del>  |
|                 |                          |                         |                                  |                         | <del>retail.</del>                            |                 |
|                 |                          | 552                     | Tires, batteries, and acces      | 5520                    | Tires, batteries, and accessories             | 553             |
|                 |                          |                         | sories retail.                   |                         | <del>retail.</del>                            |                 |
|                 |                          | 553                     | Gasoline service stations.       | 5530                    | Gasoline service stations.                    | 554             |
|                 |                          | 559                     | Other retail trade automotive,   | 5591                    | Marine craft and accessories retail           | Incl. 55        |
|                 |                          |                         | marine craft, aircraft, and      | 5592                    | Aircraft and accessories retail.              | Incl. 55        |
|                 |                          |                         | accessories, NEC.                | 5599                    | Other retail trade automotive,                | Incl. 55        |
|                 |                          |                         |                                  |                         | marine craft, aircraft, and accessories, NEC. |                 |
|                 |                          |                         |                                  |                         |   |                 |
| -56             | Retail trade apparel and | 561                     | Men's and boys' clothing and     | 5610                    | Men's and boys' clothing and fur              | <del>561</del>  |
|                 | accessories.             |                         | furnishings retail.              |                         | nishings retail.                              |                 |
|                 |                          | 562                     | Women's read-to-wear-retail.     | 5620                    | Women's ready-to-wear-retail.                 | <del>562</del>  |
|                 |                          | 563                     | Women's accessories and spe      | 5630                    | Women's accessories and special               | <del>563</del>  |
|                 |                          |                         | cialties retail.                 |                         | ties retail.                                  |                 |
|                 |                          | 564                     | Children's and infants' wear     | 5640                    | Children's and infants' wear retail.          | <del>564</del>  |
|                 |                          |                         | retail.                          |                         |   |                 |
|                 | 565 Family clothing      | Family clothing retail. | 5650                             | Family clothing retail. | <del>565</del>                                |                 |
|                 |                          | 566                     | Shoes retail.                    | 5660                    | Shoes retail.                                 | <del>566</del>  |
|                 |                          |                         |                                  |                         |   |                 |
|                 |                          | <del>567</del>          | Custom tailoring.                | 5670                    | Custom tailoring.                             | <del>567</del>  |
|                 |                          | 568                     | Furriers and fur apparel retail. | 5680                    | Furriers and fur apparel retail.              | 568             |
|                 |                          | 569                     | Other retail trade apparel and   | 5690                    | Other retail trade apparel and ac             | <del>569</del>  |
|                 |                          | 50)                     | Other retain trade apparer and   | 3070                    | Other retain trade apparer and ac             | 507             |

| <del>-57</del> | Retail trade furniture, home furnishings, and equipment. | 571 | Furniture, home furnishings, and equipment retail. | 5711<br>5712<br>5713 | Furniture retail.  Floor coverings retail.  Draperies, curtains, and upholstery  retail. | — 5712<br>— 5713<br>— 5714 |
|----------------|--|-----|--|----------------------|--|----------------------------|
|                |  |     |  | 5714                 | China, glassware, and metalware  | <del></del>                |
|                |  |     |  | 5719                 | Other furniture, home furnishings, and equipment retail, NEC.                            | <del>5719</del>            |
|                |  | 572 | Household appliances—retail.                       | 5720                 | Household appliances—retail.   | <del> 572</del>            |
|                |  | 573 | Radios, televisions, and music supplies retail.    | 5731<br>5732         | Radios and televisions retail.  Music supplies retail.                                   | —573 <u>2</u><br>—5733     |
| 58.            | Retail trade eating and drinking.                        | 581 | Eating places.                                     | 5810                 | Eating places.5  | <del>- 5812</del>          |
|                |  | 582 | Drinking places (alcoholic bev erages).            | 5820                 | Drinking places (alcoholic beverages).   | 5813                       |

 $\frac{B-15}{B.--A~STANDARD~SYSTEM~FOR~IDENTIFYING~AND~CODING~LAND~USE~ACTIVITIES--TWO~,~THREE~,~AND~FOUR-DIGIT~LEVELS---Continued}$ 

|      |                          |      |                             |      |  | SIC             |
|------|--------------------------|------|-----------------------------|------|--|-----------------|
| Code | Category                 | Code | Category                    | Code | Category   | Reference       |
| 59   | Other retail trade, NEC. | 591  | Drug and proprietaryretail. | 5910 | Drug and proprietary—retail.                       | 591             |
|      |                          | 592  | Liquor retail.              | 5920 | Liquor retail.                                     | <del>592</del>  |
|      |                          | 593  | Antiques and secondhand mer |      | Antiques retail.                                   | <del>5932</del> |
|      |                          |      | chandise retail.            | 5932 | Secondhand merchandise retail.                     | <del>5933</del> |
|      |                          | 594  | Book and stationery retail. | 5941 | Books retail.                                      | 5942            |
|      |                          |      |                             | 5942 | Stationery retail.                                 | 5943            |
|      |                          | 595  | Sporting goods and bicycles | 5951 | Sporting goods retail.                             | <del>5952</del> |
|      |                          |      | retail.                     | 5952 |  | <del>5953</del> |
|      |                          | 596  | Farm and garden supplies re | 5961 | Hay, grains, and feeds retail.                     | <del>5962</del> |
|      |                          |      | tail.                       | 5969 | Other farm and garden supplies retail, NEC.        | <del>5969</del> |
|      |                          | 597  | Jewelry retail.             | 5970 | Jewelry retail.                                    | <del>597</del>  |
|      |                          | 598  | Fuel and ice retail.        | 5981 | Fuel and ice dealers (except fuel oil              | <del>5982</del> |
|      |                          |      |                             | 5982 | and bottled gas dealers) retail.  Fuel oil retail. | 5983            |
|      |                          |      |                             |      | Bottled gas retail.                                | <del>5984</del> |
|      |                          | 599  | Other retail trade, NEC.    | 5991 | Floristsretail.                                    | <u>5992</u>     |
|      |                          |      |                             | 5992 | Cigars and cigarettes retail.                      | 5993            |
|      |                          |      |                             | 5993 | Newspapers and magazines retail.                   | 5994            |
|      |                          |      |                             | 5994 | Cameras and photographic supplies                  | <del>5996</del> |
|      |                          |      |                             | 5995 | retail. Gifts, novelties, and souvenirs re         | <del>5997</del> |
|      |                          |      |                             |      | — tail.  |                 |

|  |     |   | 5996<br>5999 | Optical goods—retail.  Other retail trade, NEC.                                   | <del>5998</del><br><del>5999</del> |
|--|-----|---|--------------|---|------------------------------------|
| 61 Finance, insurance, and real estate services. | 611 | Banking and bank related functions.                         | 6111         | Banking services.   | 601, 602, 603,<br>and 604          |
|  |     |   | 6112         | Bank related functions.   | <del>605</del>                     |
|  | 612 | Credit services (other than                                 | 6121         | Savings and loan associations.  | <del>612</del>                     |
|  |     | banks).   | 6122         | Agricultural, business, and personal  credit services (including credit  unions). | 613, 614 and 615                   |
|  |     |   | 6129         | Other credit services (other than banks), NEC.                                    | 611 and 616                        |
|  | 613 | Security and commodity brok<br>ers, dealers, exchanges, and | 6131         | Security brokers, dealers, and flota tion services.                               | 6211                               |
|  |     | services.   | 6132         | Commodity contracts brokers and dealers services.                                 | 6221                               |
|  |     |   | 6133         | Security and commodity exchanges.   | <del>623</del>                     |
|  |     |   | 6134         | Security and commodity allied serv—ices.  | <del>628</del>                     |
|  | 614 | Insurance carriers, agents, brok-                           | 6141         | Insurance carriers.   | <del>63</del>                      |
|  |     | ers, and services.  | 6142         | Insurance agents, brokers, and services.  | 64                                 |

| FOOTNOTES  | the premises. For example, 5122-0 is a wholesaler of paints        |
|--|--|
| and var-   |  |
|  | nishes who has a definite storage area set aside for his           |
| merchandise.   |  |
| *The SIC codes are listed for purposes of reference. They are the              | <sup>3</sup> Code 5461 "bakeries (manufacturing) retail" include   |
| only those   |  |
| codes in the SIC system that most nearly correspond to the 4-digit             | bakeries that produce on the premises some or all of the           |
| <del>products sold.</del>  |  |
| land use activity indicated. (See ch. 111. sec. A3, "The Use of Standard       | Code 5462 "Bakeries (nonmanufacturing) retail"                     |
| include only   |  |
| Industrial Classification Nomenclature.") A dash indicates that there          | those bakeries that do not produce on the premises the             |
| products that  |  |
| is no corresponding SIC code.  | <del>are sold.</del>   |
| <sup>2</sup> Code 51 "Wholesale trade." A code of "0" is used in the auxiliary | <sup>5</sup> Code 5810 "Eating places" include both establishments |
| serving  |  |
| position for those wholesalers who maintain a definite storage area on         | only food as well as those serving both food and alcoholic         |
| beverages.   |  |

|      |                        |       |                                   |      |                                      | Sic                    | Lu  |
|------|------------------------|-------|-----------------------------------|------|--------------------------------------|------------------------|-----|
| Code | Catagory               | Code  | Catagory                          | Codo | Catagory                             | Reference <sup>‡</sup> | CL  |
| Couc | Cuicgory               | Couc  | Cuicgory                          | Couc | Cuicgory                             | Rejerence              | Cit |
|      |                        |       |                                   |      |                                      |                        |     |
|      |                        |       |                                   |      |                                      |                        |     |
|      |                        |       |                                   |      |                                      |                        |     |
|      |                        |       |                                   |      |                                      |                        |     |
| 61   | Finance incurance and  |       | Peal estate and related services  | 6151 | Real estate operators (except devel- | 651                    |     |
|      | i mance, mourance, and | 015 1 | tour counte una relutea services. | 0151 | real estate operators (except dever  | 031                    |     |

| real estate services  |     |                                 |      | opers) and lessors.                           |                  |
|-----------------------|-----|---------------------------------|------|---|------------------|
| Continued.            |     |                                 | 6152 | Real estate agents, brokers, and              | 653              |
|                       |     |                                 |      | management services.                          |                  |
|                       |     |                                 | 6153 | Title abstracting services.                   | 654              |
|                       |     |                                 | 6154 | Real estate subdividing and develop           | <del>655</del>   |
|                       |     |                                 |      | ing services.                                 |                  |
|                       |     |                                 | 6155 | Real estate operative builders.               | <del>656</del>   |
|                       |     |                                 | 6156 | Combinations of real estate, insur            | <del>661</del>   |
|                       |     |                                 |      | ance, loan, and law services.                 |                  |
|                       |     |                                 | 6159 | Other real estate and related services,       |                  |
|                       |     |                                 |      | NEC.  |                  |
|                       |     |                                 |      |   |                  |
|                       | 616 | Holding and investment serv     | 6160 | Holding and investment services.              | <del>67</del>    |
|                       |     | ices.                           |      |   |                  |
|                       | 610 |                                 | 6100 |   |                  |
|                       | 619 | Other finance, insurance, and   | 6190 | Other finance, insurance, and real            |                  |
|                       |     | real estate services, NEC.      |      | estate services, NEC.                         |                  |
| 62 Personal services. | 621 | Laundering, dry cleaning, and   | 6211 | Laundering, dry cleaning, and dye             | 7211, 72         |
| 02 Fersonal services. | 021 |                                 | 0211 |   | 7211, 72<br>7216 |
|                       |     | dyeing services.                | 6212 | ing services (except rugs).                   | 7218             |
|                       |     |                                 | 0212 | Linen supply and industrial laundry services. | 1213             |
|                       |     |                                 | (212 |   | 7214             |
|                       |     |                                 |      | Diaper services.                              | 7214<br>7215     |
|                       |     |                                 | 6214 | Laundering and dry cleaning (self-            | 7215             |
|                       |     |                                 | 6215 | — service).                                   | 7217             |
|                       |     |                                 | 6215 | Rug cleaning and repair services.             | 7217             |
|                       | 622 | Photographic services (includ   | 6220 | Photographic services (including              | 722              |
|                       | 022 | ing commercial).                | 0220 | — commercial).                                | ,                |
|                       |     | mg commerciar).                 |      | commercial).                                  |                  |
|                       | 623 | Beauty and barber services.     | 6231 | Beauty services.                              | 723              |
|                       |     | ,                               | 6232 | Barber services.                              | 724              |
|                       |     |                                 |      |   |                  |
|                       | 624 | Funeral and crematory services; | 6241 | Funeral and crematory services.               | 726              |
|                       |     | cemeteries.                     | 6242 |   |                  |
|                       |     |                                 |      |   |                  |
|                       | 625 | Apparel repair, alteration and  |      | Pressing, alteration, and garment re          | 7271             |
|                       |     | cleaning pickup services; shoe  |      | pair; laundry and dry cleaning                |                  |
|                       |     | repair services.                |      | pickup services (only).                       |                  |
|                       |     |                                 | 6252 | Fur repair and storage services.              | 7272             |
|                       |     |                                 | 6253 |   | 725              |
|                       |     |                                 |      | cleaning services.                            |                  |
|                       |     |                                 |      | <u> </u>                                      |                  |
|                       | 629 | Other personal services, NEC.   | 6290 | Other personal services, NEC.                 | 729              |
|                       |     |                                 |      |   |                  |
| 63 Business services. | 631 | Advertising services.           | 6311 | Advertising services (general).               | 7311             |
|                       |     |                                 | 6312 | Outdoor advertising services.                 | 7312             |
|                       |     |                                 | 6319 | Other advertising services, NEC.              | 7319             |
|                       |     |                                 |      |   |                  |
|                       | 632 | Consumer and mercantile credit  | 6320 | Consumer and mercantile credit re             | 7321             |
|                       |     | reporting services, adjustment  |      | porting services; adjustment and              |                  |
|                       |     | and collection services.        |      | collection services.                          |                  |
|                       | 600 | <b>D</b> 11 (2) (1)             | 6221 | B   | 7001             |
|                       | 633 | Duplicating mailing and steno-  | 6331 | Direct mail advertising services.             | 7331             |
|                       |     | graphic services.               | 6332 | Blueprinting and photocopying serv            | 7332             |
|                       |     |                                 |      | ice.  |                  |
|                       |     |                                 | 6339 | Stenographic services and other               | 7339             |
|                       |     |                                 |      | duplicating and mailing services, NEC.        |                  |
|                       |     |                                 |      |   |                  |
|                       | 634 | Dwelling and other building     | 6341 | Window cleaning services.                     | 7341             |

|   | services.                  | 6342 | Disinfecting and exterminating serv   | 7342           |
|---|----------------------------|------|---------------------------------------|----------------|
|   |                            |      | <del>vices.</del>                     |                |
|   |                            | 6349 | Other dwelling and building services, | 7349           |
|   |                            |      | <del>NEC.</del>                       |                |
|   |                            |      |                                       |                |
| 6 | 35 News syndicate services | 6350 | News syndicate services.              | <del>735</del> |
|   |                            |      |                                       |                |
| 6 | 36 Employment services.    | 6360 | Employment services.                  | 736            |

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|                    |                   |         |                                 |                 |  | SIC                    |
|--------------------|-------------------|---------|---------------------------------|-----------------|--|------------------------|
| Code               | Category          | Code    | Category                        | Code            | Category                                     | Reference <sup>1</sup> |
| <del>-63 - I</del> | Business services | 637 W   | Warehousing and storage serv    | 6371            | Farm products warehousing and                | 4221                   |
|                    | Continued         |         | ices.2                          |                 | storage (excluding stockyards).              |                        |
|                    |                   |         |                                 | 6372            | Stockyards.                                  | 4731                   |
|                    |                   |         |                                 | 6373            | Refrigerated warehousing (except             | 4222                   |
|                    |                   |         |                                 |                 | food lockers).                               |                        |
|                    |                   |         |                                 | 6374            | Food lockers (with or without food           | 4223                   |
|                    |                   |         |                                 |                 | preparation facilities).                     |                        |
|                    |                   |         |                                 | 6375            | Household goods warehousing and              | 4224                   |
|                    |                   |         |                                 |                 | storage.                                     | :=                     |
|                    |                   |         |                                 | 6376            | General warehousing and storage.             | 4225                   |
|                    |                   |         |                                 | 6379            | Other warehousing and storage,               | 4226                   |
|                    |                   |         |                                 | 0517            | NEC.   | 7220                   |
|                    |                   | 639 O   | Other business services, NEC.   | 6391            | Research, development, and testing services. | 7391                   |
|                    |                   | <u></u> |                                 | 6392            | Business and management consulting           | 7392                   |
|                    | <u> </u>          |         |                                 | - 03,2          | services.                                    |                        |
|                    |                   |         |                                 | 6393            | Detective and protective services.           | 7393                   |
|                    |                   |         |                                 | 6394            | Equipment rental and leasing serv            | 7394                   |
| -                  |                   |         |                                 | <del>035+</del> |  | 1377                   |
|                    |                   | •       |                                 | 6395            | — ices.  Dhotofinishing convices             | 7205                   |
|                    |                   |         |                                 |                 | Photofinishing services.                     | 7395                   |
|                    |                   |         |                                 | 6396            | Trading stamp services.                      | <del>7396</del>        |
|                    |                   |         |                                 | 6397            | Automobile and truck rental serv             | 7511                   |
|                    |                   |         |                                 |                 | — ices.                                      |                        |
|                    |                   |         |                                 | 6398            | Motion picture distribution and              | 7812 a                 |
|                    | <del> </del>      |         |                                 |                 | services.                                    |                        |
|                    |                   |         |                                 | 6399            | Other business services, NEC.                | 7399                   |
| -64 F              | Repair services.  | 641 A   | Automobile repair and services. | 6411            | Automobile repair services.                  | 753                    |
|                    |                   |         |                                 | 6412            | Automobile wash services.                    | Incl. 75               |
|                    |                   |         |                                 | 6419            | Other automobile services (except re         | Incl. 75               |
|                    |                   |         |                                 |                 | pair and wash), NEC.                         |                        |
|                    |                   | 649 O   | Other repair services, NEC.     | 6491            | Electrical repair services (except           | Incl. 70               |
|                    |                   |         |                                 |                 | radio and television).                       |                        |
|                    | <del> </del>      |         |                                 | 6492            | Radio and television repair services.        | 7622                   |
|                    |                   |         |                                 | 6493            | Watch, clock, and jewelry repair services.   | <del>763</del>         |
|                    |                   |         |                                 | -               | <del>services.</del>                         |                        |

|                           |       |                                  |      | <del>services.</del>                                  |                |
|---------------------------|-------|----------------------------------|------|---|----------------|
|                           |       |                                  | 6495 | Armature rewinding services.                          | 7694           |
|                           |       |                                  | 6499 | Other repair services, NEC.                           | 7699           |
| 65 Professional services. | 651 M | Medical and other health serv    | 6511 | Physicians' services.                                 | 801, 803,      |
|                           |       | ices.                            |      |   | and 804        |
|                           |       |                                  | 6512 | Dental services.                                      | 802            |
|                           |       |                                  | 6513 | Hospital services.                                    | <del>806</del> |
|                           |       |                                  | 6514 | Medical laboratory services.                          | 8071           |
|                           |       |                                  | 6515 | Dental laboratory services.                           | 8072           |
|                           |       |                                  | 6516 | Sanitariums, convalescent, and rest home services.    | 8092           |
|                           |       |                                  | 6517 | Medical clinics out patient services.                 |                |
|                           |       |                                  | 6519 | Other medical and health services,  NEC:              | 8099           |
|                           |       | egal services.                   | 6520 | Legal services.                                       | 811            |
|                           |       | Wher professional services, NEC. | 6591 | Engineering and architectural serv ices.              | 891            |
|                           |       |                                  | 6592 | Educational and scientific research services.         | 892            |
|                           |       |                                  | 6593 | Accounting, auditing, and book  keeping services.     | 893            |
|                           |       |                                  | 6594 | Urban planning services.                              | Incl. 899      |
|                           |       |                                  | 6599 | Other professional services, NEC.                     | Incl. 899      |
| 66 Contract construction  |       | General contract construction    | 6611 | Building construction—general con———tractor services. | <del>151</del> |
| services.                 | 1     | services.                        | 6610 |   | 16             |
|                           |       |                                  | 6619 | Other general construction contrac-                   | 16             |
|                           |       |                                  |      | tor services, NEC.                                    |                |

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# $\textbf{B.} \qquad \textbf{A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES} - \textbf{TWO-, THREE-, AND FOURDIGIT}$

#### **LEVELS** -- Continued

| Code | Category               | Code  | Category                        | Code | Category   | SIC<br>Reference |
|------|------------------------|-------|---------------------------------|------|--|------------------|
| 66   | Contract construction  | 662   | Special construction trade serv | 6621 | Plumbing, heating, and air condi                                     | 17               |
|      | services Continued     |       | ices.                           | 6622 | tioning services.  Painting, paper hanging, and decorating services. | 17               |
|      |                        |       |                                 | 6623 | Electrical services.   | 17               |
|      |                        |       |                                 | 6624 | Masonry, stonework, tile setting, and plastering service.            | <del></del>      |
|      |                        |       |                                 | 6625 | Carpentering and wood flooring.                                      | 17               |
|      |                        |       |                                 | 6626 | Roofing and sheet metal services.                                    | 17               |
|      |                        |       |                                 | 6627 | Concrete services.   | 17               |
|      |                        |       |                                 | 6628 | Water well drilling services.  | 17               |
|      |                        |       |                                 | 6629 | Other special construction trade services, NEC.                      | 17               |
| 67   | Governmental services. | 671 I | Executive, legislative, and ju- | 6710 | Executive, legislative, and judicial                                 | Incl. 91         |
|      |                        |       | dicial functions.               |      | functions.3  | 929, and 9       |

|                          | 672 | Protective functions and their       | 6721   | Police protection and related activi  | Incl. 919,   |
|--------------------------|-----|--------------------------------------|--|---|--|
|                          |     | related activities.                  |  | ties.   | 929, and 939   |
|                          |     |                                      | 6722   | Fire protection and related activities.   | Incl. 919,   |
|                          |     |                                      |  | -   | 929, and 939   |
|                          |     |                                      | 6723   | Civil defense and related activities.   | Incl. 919,   |
|                          |     |                                      |  |   | 929, and 939   |
|                          |     |                                      |  |   |  |
|                          | 673 | Postal services.                     | 6730   | Postal services.  | Incl. 919  |
|                          |     |                                      |  |   |  |
|                          | 674 | Correctional institutions.           | 6741   | Prisons.  | Incl. 919,   |
|                          |     |                                      |  |   | 929, and 939   |
|                          |     |                                      |  |   |  |
|                          |     |                                      | 6749   | Other correctional institutions, NEC.   | Incl. 919,   |
|                          |     |                                      |  |   | 929, and 939   |
|                          |     |                                      |  |   |  |
|                          | 675 | Military bases and reservations.4    | 6751   | Military training bases.  | Incl. 919  |
|                          |     |                                      |  |   | and 929  |
|                          |     |                                      |  |   |  |
|                          |     |                                      | 6752   | Military defense installations.   | Incl. 919  |
|                          |     |                                      |  |   | and 929  |
|                          |     |                                      | 6753   | Military storage depots and trans   | Incl. 919  |
|                          |     |                                      |  | portation centers.  | and 929  |
|                          |     |                                      | 6754   | Military maintenance centers.   | Incl. 919  |
|                          |     |                                      |  |   | and 929  |
|                          |     |                                      | 6755   | Military administration or command  | Incl. 919  |
|                          |     |                                      |  | centers.  | and 929  |
|                          |     |                                      | 6756   | Military communication centers.   | Incl. 919  |
|                          |     |                                      |  |   | and 929  |
|                          |     |                                      | 6759   | Other military bases and reserva-   | Incl. 919  |
|                          |     |                                      |  | tions, NEC.   | and 929  |
|                          |     |                                      |  |   |  |
| 68 Educational services. | 681 | Nursery, primary, and secondary      | 6811   | Nursery schools.  | Incl. 821  |
|                          |     | education.                           | 6812   | Primary (elementary) schools.5  | Incl. 821  |
|                          |     |                                      | 6813   | Secondary schools.6   | Incl. 821  |
|                          |     |                                      |  |   |  |
|                          | 682 | University, college, junior college, | 6821   | Universities and colleges.  | Incl. 8221   |
|                          |     |                                      |  | T ' 11  | T 1 0000   |
|                          |     | and professional school edu          | 6822   | Junior colleges.  | Incl. 8222   |
|                          |     | and professional school edu cation.  | 6822<br>6823   | Professional schools.   | Incl. 8222<br>Incl. 8221   |
|                          |     | •                                    |  |   |  |
|                          | 683 | cation.                              |  |   |  |
|                          | 683 | •                                    | 6823<br>6831   | Professional schools.  Vocational or trade schools.   | Incl. 8221   |
|                          | 683 | cation.                              | 6823<br>6831   | Professional schools.   | Incl. 8221<br>8242   |
|                          | 683 | cation.                              | 6823<br>6831<br>6832                                 | Professional schools.  Vocational or trade schools.  Business and stenographic schools.   | 8242<br>Incl. 8299   |
|                          | 683 | cation.                              | 6823<br>6831<br>6832                                 | Professional schools.  Vocational or trade schools.  Business and stenographic schools.   | 8242<br>8242<br>Incl. 8299<br>Incl. 723                            |
|                          | 683 | cation.                              | 6823<br>6831<br>6832<br>6833<br>6834                 | Professional schools.  Vocational or trade schools.  Business and stenographic schools.  Barber and beauty schools.   | 8242  8242  Incl. 8299  Incl. 723  and 724                         |
|                          | 683 | cation.                              | 6823<br>6831<br>6832<br>6833<br>6834<br>6835         | Professional schools.  Vocational or trade schools.  Business and stenographic schools.  Barber and beauty schools.  Art and music schools.                                     | Red. 8221  8242  Incl. 8299  Incl. 723  and 724  Incl. 8299        |
|                          | 683 | cation.                              | 6823<br>6831<br>6832<br>6833<br>6834<br>6835         | Professional schools.  Vocational or trade schools.  Business and stenographic schools.  Barber and beauty schools.  Art and music schools.  Dancing schools.                   | 8242 Incl. 8299 Incl. 723 and 724 Incl. 8299 Incl. 7911            |
|                          | 683 | cation.                              | 6823<br>6831<br>6832<br>6833<br>6834<br>6835<br>6836 | Professional schools.  Vocational or trade schools.  Business and stenographic schools.  Barber and beauty schools.  Art and music schools.  Dancing schools.  Driving schools. | 8242 Incl. 8299 Incl. 723 and 724 Incl. 8299 Incl. 7911 Incl. 8299 |

# $\textbf{B.} \quad \textbf{A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE-, AND FOUR-DIGIT \\ \textbf{LEVELS -- Continued}$

|                                     |                                       |                           |                                 |                             |   | SIC                      |
|-------------------------------------|---------------------------------------|---------------------------|---------------------------------|-----------------------------|---|--------------------------|
| Code                                | Category                              | Code                      | Category                        | Code                        | Category  | Reference <sup>1</sup> — |
| 60                                  | Miscellaneous services.               | 691                       | Religious activities.7          | 6011                        | Churches, synagogues, and temples.              | Incl. 86                 |
| 0)                                  | TVIISCEITAITCOUS SEI VICCS.           | 071                       | Rengious activities.            | 6919                        | Other religious activities, NEC.                | Incl. 86                 |
|                                     |                                       |                           |                                 | 0,1,                        | other rengious detrines, 1120                   | <b></b> 00               |
|                                     |                                       | 692                       | Welfare and charitable services | 6920                        | Welfare and charitable services.                | 867                      |
|                                     |                                       | 699                       | Other miscellaneous services,   | 6991                        | Business associations.                          | 861                      |
|                                     |                                       |                           | NEC.                            | 6992                        | Professional membership organiza tions.         | <del>862</del>           |
|                                     |                                       |                           |                                 | 6993                        | Labor unions and similar labor                  | 863                      |
|                                     |                                       |                           |                                 |                             | <del>organizations.</del>                       |                          |
|                                     |                                       |                           |                                 | 6994                        | Civic, social, and fraternal associa-<br>tions. | 864                      |
|                                     |                                       |                           |                                 | 6999                        | Other miscellaneous services, NEC.              |                          |
|                                     | codes are listed for purposes o       | of reference.             | They are the                    | legislature and c           | courts. All operational activities (e.g.,       |                          |
| <del>ipbuilding</del><br>dec in the |                                       | correspond                | to the A digit land             | echools or hose             | pitals) should be identified separately         |                          |
| der the re                          | SIC system that most nearly           | correspond                | to the 4 digit fand             | schools, or nost            | ontais) should be identified separatery         |                          |
|                                     | indicated. (See ch. III, sec. A       | 13 "The He                | e of Standard                   | activity codes.             |   |                          |
|                                     | lassification Nomenclature.")         |                           |                                 |                             | Ailitary bases and reservations" include        |                          |
| installa-                           |                                       | , rr dasir iii            | areates that there              | 2000 075 17                 | initiary buses and reservations include         |                          |
|                                     | ponding SIC code.                     |                           |                                 | tions used by be            | oth the active military as well as the          |                          |
| eserves and                         |                                       |                           |                                 |                             |   |                          |
|                                     | "Warehousing and storage s            | services" in              | clude only those                | National Guard              | <del>-</del>                                    |                          |
|                                     | at are used by or are open to the     |                           |                                 |                             | Primary (elementary) schools" may or            |                          |
| ay not incl                         |                                       | •                         |                                 |                             | <b>3</b> \ <b>3</b> /                           |                          |
| -                                   | storage is functionally and o         | rganization               | ally linked to                  | a kindergarten,             | but they do include grades 1 through 6.         |                          |
|                                     | vity (e.g., a general contracto       |                           |                                 |                             | Secondary schools" are schools that             |                          |
| elude grad                          |                                       | 11                        | ,,                              |                             | ·   |                          |
| e facilities                        | s are identified and coded the        | same as the               | parent activity                 | through 12, pop             | oularly known as junior and senior high         |                          |
| <del>hools.</del>                   | and of 4 (warshousing and st          | torogo) in th             | a auxiliary position            | <sup>7</sup> Codo 601 "P    | Paliaious activities" include only those        |                          |
|                                     | code of 4 (warehousing and st         | <del>orage) in th</del>   | е шилишту розниоп.              | — <del>Coue by i "K</del>   | teligious activities" include only those        |                          |
| aces opera                          |                                       | storage eres              | of a manufacturer               | for worship on              | for the promotion of religious estivities       |                          |
| <del>r example<br/>ctivities</del>  | e, 2310 4 is a warehouse and          | storage urei              | or a manuracturer               | ror worship of              | for the promotion of religious activities.      |                          |
|                                     | ouths', and boys' suits, coats,       | and overce                | nats                            | maintained by t             | he religious organizations (e.g., schools,      |                          |
| spitals, pu                         |                                       | , and overet              |                                 | man <del>ramed by t</del>   | no rengious organizations (e.g., senoois,       |                          |
|                                     | 0                                     | d indicial fo             | netions" include                | lishing houses              | etc.) should be identified separately under     |                          |
| e respectiv                         |                                       | a juui <del>ciai te</del> | metons merado                   | naming <del>nouses, t</del> | etc., should be identified separatery under     |                          |
|                                     | re<br>atral and administrative office | nctivities o              | f the agencies or               | activity codes.             |   |                          |
|                                     | orities involved in governmen         |                           |                                 | Learny codes.               |   |                          |
|                                     | m governmen                           | 14                        | ,                               |                             |   |                          |
|                                     | Cultural activities and               | 711                       | Cultural activities.            | 7111                        | Libraries                                       | 823                      |
| 71                                  |                                       |                           |                                 | 7112                        | Museums.  | Incl. 841                |
| 71—                                 | nature exhibitions.                   |                           |                                 |                             |   |                          |
| 71                                  | nature exhibitions.                   |                           |                                 | 7113                        | Art galleries.2                                 | Incl. 841                |
| <del>71</del>                       | nature exhibitions.                   |                           |                                 | 7113<br>7119                | Art galleries.2 Other cultural activities, NEC. | Incl. 841                |
| 71                                  | nature exhibitions.                   | 712                       | Nature exhibitions              | 7119                        | Other cultural activities, NEC.                 | Incl. 841                |
| 71                                  | nature exhibitions.                   | 712                       | Nature exhibitions.             |                             |   | Incl. 841 Incl. 8421     |

|                     |     |                                | 7124 | Zoos.  |            |
|---------------------|-----|--------------------------------|------|--|------------|
|                     |     |                                | 7129 | Other nature exhibitions, NEC.                         |            |
|                     | 719 | Other cultural activities and  | 7191 | Historic and monument sites.3                          |            |
|                     |     | nature exhibitions, NEC.       | 7199 | Other cultural activities and nature exhibitions, NEC. |            |
| 72 Public assembly. | 721 | Entertainment assembly.        | 7211 | Amphitheaters.   |            |
| 12 I done assembly. | ,   | Entertainment assembly.        | 7212 | Motion picture theaters.                               | Incl. 7831 |
|                     |     |                                | 7213 | Drive in movies.                                       | Incl. 7831 |
|                     |     |                                | 7214 | Legitimate theaters.                                   |            |
|                     |     |                                | 7219 | Other entertainment assembly, NEC.                     |            |
|                     | 722 | Sports assembly.4              | 7221 | Stadiums.5   | Incl. 7941 |
|                     |     |                                | 7222 | Arenas and field houses.                               |            |
|                     |     |                                | 7223 | Race tracks.6  | Incl. 7948 |
|                     |     |                                | 7229 | Other sports assembly, NEC.                            |            |
|                     | 723 | Public assembly, miscellaneous | 7231 | Auditoriums.   |            |
|                     |     | purposes.                      | 7232 | Exhibition halls.                                      |            |
|                     |     |                                | 7239 | Other miscellaneous assembly, NEC.                     |            |
|                     | 729 | Other public assembly, NEC.    | 7290 | Other public assembly, NEC.                            |            |
| 73 Amusements.      | 731 | Fairgrounds and amusement      | 7311 | Fairgrounds.   | Incl. 7949 |
|                     |     | parks.                         | 7312 | Amusement parks.                                       | Incl. 7949 |
|                     |     |                                |      |  |            |

 $<sup>\</sup>underline{*Fairgrounds}$  are Class B Land; when used for automobile and

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|                |                          |      |                                 |      |                                      | SIC        |
|----------------|--------------------------|------|---------------------------------|------|--------------------------------------|------------|
| Code           | Category                 | Code | Category                        | Code | Category                             | Reference  |
| 73             | Amusements Continued     | 739  | Other amusements, NEC.          | 7391 | Penny arcades.                       | Incl. 7949 |
|                |                          |      | ,                               | 7392 | Miniature golf.                      | Incl. 7949 |
|                |                          |      |                                 | 7393 | Golf driving ranges.                 | Incl. 7949 |
|                |                          |      |                                 | 7394 | Go cart tracks.                      | Incl. 7949 |
|                |                          |      |                                 | 7399 | Other amusements, NEC                | Incl. 7949 |
|                | Recreational activities. | 741  | Sports activities.              | 7411 | Golf courses (without country club). |            |
| <del>)42</del> |                          |      |                                 | 7412 | Golf courses (with country club).    | 7947       |
|                |                          |      |                                 | 7413 | Tennis courts.                       |            |
|                |                          |      |                                 | 7414 | Ice skating                          | Incl. 7945 |
|                |                          |      |                                 | 7415 | Roller skating                       | Incl. 7945 |
|                |                          |      |                                 | 7416 | Riding stables.                      |            |
|                |                          |      |                                 | 7417 | Bowling                              | Incl. 7931 |
|                |                          |      |                                 | 7418 | Skiing and tobogganing.              |            |
|                |                          |      |                                 | 7419 | Other sports activities, NEC.        |            |
|                |                          | 742  | Playgrounds and athletic areas. | 7421 | Play lots or tot lots.7              |            |
|                |                          |      |                                 | 7422 | Playgrounds.8                        | _          |
|                |                          |      |                                 | 7423 | Playfields or athletic fields.9      | _          |
|                |                          |      |                                 | 7424 | Recreation centers (general).10      |            |

<sup>--</sup> motorcycle racing, Fairgrounds are Class C Land.

|  |                        |                                   | 7425                    | Crymnosiums and athlatic aluba  | In al. 7040 |
|--|------------------------|-----------------------------------|-------------------------|---|-------------|
|  |                        |                                   | 7425<br>7420            | Gymnasiums and athletic clubs.  | Incl. 7949  |
| NEC.   |                        |                                   | 1429                    | Other playground and athletic areas,                                    |             |
| NEC.   |                        |                                   |                         |   |             |
|  | 743                    | Swimming areas.                   | 7431                    | Swimming beaches.11   |             |
|  | 7 15                   | 5 willing areas.                  | 7432                    |   | 7944        |
|  |                        |                                   |                         | <b>3 1</b> · · · · · ·  |             |
|  | 744                    | Marinas.13                        | 7441                    | Yachting clubs.   | Incl. 7949  |
|  | -                      |                                   |                         | Boat rentals and boat access sites.                                     |             |
|  |                        |                                   | 7449                    | Other marinas, NEC.   |             |
|  |                        |                                   |                         |   |             |
|  | 749                    | Other recreation, NEC.            | 7491                    | Camping and picnicking areas.14   |             |
|  |                        |                                   | 7499                    | Other recreation, NEC.  |             |
|  |                        |                                   |                         |   |             |
| 75 Resorts and group camps.  | 751                    | Resorts.                          | 7511                    | General resorts.15  |             |
|  |                        |                                   | 7512                    | Dude ranches.   | Incl. 7032  |
|  |                        |                                   | 7513                    | Health resorts.   | Incl. 8092  |
|  |                        |                                   |                         | Ski resorts.  |             |
|  |                        |                                   | 7515                    | Hunting and fishing clubs.18  | Incl. 7032  |
|  |                        |                                   | 7519                    | Other resorts, NEC.   | <del></del> |
|  |                        |                                   |                         |   |             |
|  | 752                    | Group or organized camps.         | 7520                    | Group or organized camps.17   | Incl. 7032  |
| 76 Parks.  | 761                    | Davida annual manuation           | 7610                    | Dealer  |             |
| /O Parks.  | /01                    | Parksgeneral recreation.          | /010                    | Parks-general recreation.18   |             |
|  | 762                    | Parks leisure and ornamental.     | 7620                    | Parks leisure and ornamental.19   |             |
|  | 702                    | Tarks Telsure and ornamental.     | 7020                    | Tarks leisure and ornamentar.17   |             |
|  | 769                    | Other parks, NEC.                 | 7690                    | Other parks, NEC.   |             |
|  |                        | r,                                |                         | 1   |             |
| 79 Other cultural, entertain-  | 790                    | Other cultural, entertainment,    | 7900                    | Other cultural, entertainment, and                                      |             |
| ment, and recreational   |                        | and recreational activities, NEC. |                         | recreational activities, NEC.   |             |
| activities, NEC.   |                        |                                   |                         |   |             |
|  |                        |                                   |                         |   |             |
| FOOTNOTES  |                        |                                   | contai                  | n such facilities as sand boxes, slides,                                |             |
| teeters, swings, climbing  |                        |                                   |                         |   |             |
| - <sup>1</sup> The SIC codes are listed for purposes of                        | f reference.           | . They are the                    | appara                  | ntus, etc. They are identified and coded                                |             |
| only when found as a   |                        | and the second second             |                         |   |             |
| codes in the SIC system that most nearly o                                     | <del>correspond</del>  | to the 4 digit                    | separa                  | te activity and not subsidiary to or serving                            |             |
| another activity (e.g.   | A 0. 49TE              | II. 6G. 1 1                       |                         |   |             |
| land use activity indicated. (See ch. III. se                                  |                        |                                   |                         | ment house or playground).  |             |
| Industrial Classification Nomenclature,")                                      | A dash in              | dicates that there                | ——" <del>Cod</del>      | e 7422—"Playgrounds" are areas that have                                |             |
| been developed for   |                        |                                   |                         | 1 1   |             |
| is no corresponding SIC code.  |                        |                                   | active                  | play and recreation. They are identified                                |             |
| and coded only when  | do thoso or            | allowing that gall                | found                   | as a compute activity and not subsidiant to                             |             |
| -2 Code 7113 "Art galleries" do not inclu                                      | ide those gi           | meries that sen                   | TOUTIG                  | as a separate activity and not subsidiary to                            |             |
| or serving another   | 100 000 000            | ad 5000 "Other                    | o otivit                | vy (a a la sahaal)  |             |
| art objects commercially. Commercial sal<br>retail trade, NEC."                | ies are cou            | ed 3999, Other                    | 9Cod                    | <del>y (e.g., a school).</del><br>e 7423"Playfields or athletic fields" |             |
|  |                        |                                   | <del></del> <del></del> | e /123 Flayfields of authetic fields                                    |             |
| contain a playground as<br>- <sup>3</sup> Code 7191 "Historic and monument sit | tae" includ            | e those locations                 | wall a                  | s a field(s) or court(s) for competitive                                |             |
| <del>sports (e.g., baseball, foot</del>  | ics metud              | c mose rocations                  | - wen ii                | s a mercus, or court(s) for competitive                                 |             |
| set aside for no other purpose than to com                                     | mamorata               | an historical event               | hall o                  | r tennis). Bleachers or grandstands may be                              |             |
| provided. They   | iciii <del>oruic</del> | an instolled event,               | oun, o                  | . Comms). Dicachers of grandstands may be                               |             |
| activity, or person.   |                        |                                   | are ide                 | entified and coded only when found as a                                 |             |
| separate activity and not  |                        |                                   | are rac                 | mines and coded only when round as a                                    |             |
| <sup>4</sup> Code 722 "Sports assembly" includes of                            | only the pu            | ublic assembly                    | subsid                  | liary to or serving another activity (e.g., a                           |             |
| school).   | omy <del>are pu</del>  |                                   | suosia                  | may to or serving unother activity (c.g., a                             |             |
| areas used for nonparticipating sports.  |                        |                                   | <sup>10</sup> Cor       | de 7414''''Recreation centers (general)''                               |             |
|  |                        |                                   |                         |   |             |

| 5   |                            |   |                        |  |                          |
|---|----------------------------|---|------------------------|--|--------------------------|
| – <sup>5</sup> Code 7221 "Stadiums" include thos            | e used for inc             | lividual sports,                              | recre                  | ation for a wide variety of activities for all                       |                          |
| ages and interests.   | so used for s              | overal coorts activi                          | Tho                    | parantian aantara may aantain, but ara not                           |                          |
| e.g., baseball or football, as well as tho                  | se useu tor se             | everal sports activi                          | 1 110 1                | recreation centers may contain, but are not                          |                          |
| <del>limited to a gymnasium,</del><br>ties.                 |                            |   | socia                  | l or play rooms, game rooms, arts and craft                          |                          |
| shops, etc.   |                            |   | 30010                  | or play rooms, game rooms, arts and crare                            |                          |
| -6Code 7223 "Race tracks" include th                        | osa usad for               | individual racing                             | **C                    | ode 7431 "Swimming beaches" are beach                                |                          |
| areas that have been  | ose asea for               | marvidua raemg                                |                        | ode 7431 Swimming ocaches are ocach                                  |                          |
| activities, e.g., horse racing and autome                   | hile recine                | as well as those used                         | set as                 | side specifically for the purpose of                                 |                          |
| swimming. They are identified                               | Joine racing,              | as well as those asea                         | Set u                  | side specifically for the purpose of                                 |                          |
| for several racing activities.                              |                            |   | only                   | when they are not a part of a larger activity                        |                          |
| (e.g., a park).   |                            |   |                        |  |                          |
| <sup>-7</sup> Code 7421 "Play lots or tot lots" are         | small areas                | developed espe                                | <sup>+2</sup> Co       | ode 7432 "Swimming Pools" are separately                             |                          |
| identified if they are                                      |                            | 1   |                        |  |                          |
| cially for preschool or elementary scho                     | ol aged child              | ren. They may                                 | Foots                  | notes continued on following page.                                   |                          |
| , ,   |                            | <del>B-21</del>                               |                        |  |                          |
| B. A STANDARD SYSTEM FOR                                    | IDENTIFY!                  | ING AND CODING LAND USE A<br>LEVELS Continued | CTIVITIES              | - TWO , THREE , AND FOUR DIGIT                                       |                          |
| independent of other functions (e.g., co                    | ode 72, "Publ              | ic assembly" or                               | 16Code                 | 7515 "Hunting and fishing clubs" include                             |                          |
| areas on which  |                            |   |                        |  |                          |
| code 11, "Household units"). They ma                        | y be indoor o              | or outdoor pools.                             | artificial             | ly propagated game or fish are released for                          |                          |
| <del>purposes of hunting</del>                              |                            |   |                        |  |                          |
| 13Code 744 "Marinas" include marin                          |                            |   |                        |  |                          |
| areas that are primarily for recreational                   | marine craft               | . The sale and                                | tural use              | ), these "other" uses should take priority in                        |                          |
| identifying the   |                            |   |                        |  |                          |
| repair of recreational marine craft is co                   |                            |   |                        | of the parcel.   |                          |
| accessories retail" and code 3443, "Sh                      | <del>iip and boat t</del>  | ouilding and re                               | 17Code                 | e 7520 "Group or organized camps"                                    |                          |
| include general camps for                                   |                            |   |                        |  |                          |
| pairing," respectively.                                     |                            |   | children               | , as well as Boy Scout and Girl Scout                                |                          |
| camps.  | · .,                       | . 1 . 1                                       | 100 1                  | 7610 WD 1  |                          |
| -14Code 7491 "Camping and picnick                           | ing areas" are             | e separately identified                       | 18Code                 | e 7610 "Parks general recreation" may                                |                          |
| include, but are not  |                            |   | 11 1. 1.               |  |                          |
| if they are not a part of a larger activity                 | <del>' (e.g., a park</del> | <del>).</del>                                 | limited t              | o, picnic areas, bathing beaches, playfields,                        |                          |
| hiking trails,  | f 20                       |   |                        |  |                          |
| 15Code 7511 "General resorts" have                          | rooms for 20               | or more persons                               | camping                | grounds, and other manmade recreation                                |                          |
| facilities.   | - ¢ ¢:                     | .14::4:                                       | 100-1                  | - 7/20 "D-d 1-:  |                          |
| and have provision for at least 2 types of                  | or recreations             | ii activities, exclud                         | 19000                  | 2 7620 "Parks leisure and ornamental" are                            |                          |
| largely for scenic<br>ing lawn games, children's playground |                            | sina maala on laiguna muumagaa T              | <b>h</b> ari maari aam | tain baaabaa ahilduun'a mlay faailit                                 |                          |
| ing tawn games, children's playground                       | s, and swittin             | ining poors. or leisure purposes. I           |                        | numents, or statues.   |                          |
|   |                            |   | ties, moi              | numents, or statues.   |                          |
|   |                            |   |                        |  |                          |
|   |                            |   |                        |  | SIC Le                   |
|   | Code                       | Category                                      | Code                   | Category   | Reference <sup>1</sup> C |
| Couc Cuicgory   | Couc                       | Category                                      | Couc                   | Cuicgory   | Rejerence                |
|   |                            |   |                        |  |                          |
| 81 Agriculture.2  | 811                        | Farms (predominant crop,                      | 8111                   | Farms (predominant crop, cotton).                                    |                          |
| or righteditare.2   | 011                        | fibers).3                                     | 8119                   | Farms (other type fiber crops).                                      |                          |
|   |                            |   | 0117                   | Tamb (odier type from crops).  |                          |
|   | 812                        | Farms (predominant crop, cash                 | 8120                   | Farms (predominant crop, cash  |                          |
|   | 312                        | grains).3                                     | 0.20                   | grains).   |                          |
|   |                            | B   |                        | <i>6</i>   |                          |
|   | 813                        | Farms (field crops other than                 | 8130                   | Farms (field crops other than fiber                                  |                          |
|   | 013                        | fiber or cash grain crops).3                  | 0150                   | or cash grain crops).  |                          |
|   |                            | noer or cash grain crops).                    |                        | or cash grain crops).  |                          |
|   | 814                        | Farms (predominant crop,                      | 8141                   | Farms (predominant crop, fruits).                                    |                          |
|   | -01-                       | fruits, tree nuts, or vegeta                  | 8141<br>8142           | Farms (predominant crop, truns).                                     |                          |
|   |                            | bles).3                                       | 8142<br>8143           | Farms (predominant crop, tree nats).  Farms (predominant crop, vege- |                          |
|   |                            | 0100).0                                       | 01/13                  | r arms (predominant crop, vege-                                      |                          |

|                                |     |                                 |      | tables).                              |      |
|--------------------------------|-----|---------------------------------|------|---------------------------------------|------|
|                                | 815 | Farms (predominantly dairy      | 8150 | Farms (predominantly dairy prod       |      |
|                                |     | products).3                     |      | ucts).                                |      |
|                                | 816 | Farms and ranches (livestock    | 8161 | Farms and ranches (predominantly      |      |
|                                |     | other than dairy).3             |      | <del>cattle).</del>                   |      |
|                                |     |                                 | 8162 | Farms and ranches (predominantly      |      |
|                                |     |                                 |      | <del>hog).</del>                      |      |
|                                |     |                                 | 8163 | Farms and ranches (predominantly      |      |
|                                |     |                                 |      | <del>sheep).</del>                    |      |
|                                |     |                                 | 8164 | Farms and ranches (predominantly      |      |
|                                |     |                                 |      | <del>goat).</del>                     |      |
|                                |     |                                 | 8169 | Farms and ranches (other livestock),  |      |
|                                |     |                                 |      | NEC.                                  |      |
|                                | 817 | Farms (predominantly poultry).3 | 8170 | Farms (predominantly poultry).        |      |
|                                | 818 | Farms (general no predomi       | 8180 | Farms (general no predominance).      |      |
|                                |     | nance).3                        |      | (g),                                  |      |
|                                | 819 | Other agriculture and related   | 8191 | Range and grassland pastures (not     |      |
|                                |     | activities, NEC.                |      | farm or ranch).4                      |      |
|                                |     |                                 | 8192 | Horticultural specialties.            | 0192 |
|                                |     |                                 | 8193 | Apiary farms.                         |      |
| Incl. 0193                     |     |                                 |      |                                       |      |
| Incl. 0193                     |     |                                 | 8194 | Farms and ranches (predomi-           |      |
|                                |     |                                 |      | nantly horse raising).                |      |
|                                |     |                                 | 8199 | Other agriculture and related activi- |      |
|                                |     |                                 |      | ties, NEC.                            |      |
| 82 Agricultural related activi | 821 | Agricultural processing.3       | 8211 | Cotton ginning and compressing.       |      |
| 0712<br>ties.                  |     |                                 | 8212 | Grist milling services.               |      |
| 9 <del>713</del>               |     |                                 | 0212 | Orist mining services.                |      |
| <del>9714</del>                |     |                                 | 8213 | Corn shelling, hay baling, and thresh |      |
|                                |     |                                 |      | ing services.                         |      |
|                                |     |                                 | 8214 | Contract sorting, grading, and pack-  |      |
| <del>0715</del><br>            |     |                                 |      | aging services (fruits and vegeta-    |      |
|                                |     |                                 |      | bles).                                |      |
| <del></del>                    |     |                                 | 8219 | Other agricultural processing serv    |      |
|                                |     |                                 |      | ices, NEC.                            |      |
|                                | 822 | Animal husbandry services.      | 8221 | Veterinarian services.                |      |
| Incl. 0722                     |     |                                 | 8222 | Animal hospital services.             |      |
| Incl. 0722                     |     |                                 |      |                                       |      |
| <del>0723</del>                |     |                                 | 8223 | Poultry hatchery services.            |      |
| <del>0729 C</del>              |     |                                 | 8229 | Other animal husbandry services,      |      |
|                                |     |                                 |      | NEC.                                  |      |
|                                |     | B 22                            |      |                                       |      |

# **LEVELS** -- Continued

|             |                             |      |                                   |                 |   | SIC         |
|-------------|-----------------------------|------|-----------------------------------|-----------------|---|-------------|
| Code        | Category                    | Code | Category                          | Code            | Category                                      | Reference   |
|             |                             |      |                                   |                 |   |             |
| 82          | Agricultural related activi | 829  | Other agricultural related activi | 8291            | Horticultural services.                       | 0731        |
|             | ties Continued              |      | ties, NEC.                        | 8299            | Other agricultural related activities,        |             |
|             |                             |      |                                   |                 | NEC.  |             |
| 83          | Forestry activities and re  | 831  | Commercial forestry produc        | 8311            | Timber production predominantly               |             |
|             | lated services.6            |      | tion.7                            |                 | for pulp wood.                                |             |
|             |                             |      |                                   | 8312            | Timber production predominantly               |             |
|             |                             |      |                                   |                 | for saw logs.                                 |             |
|             |                             |      |                                   | 8313            | Timber production predominantly               |             |
|             |                             |      |                                   |                 | for veneer logs.                              |             |
|             |                             |      |                                   | 8314            | Timber production mixed uses.                 |             |
|             |                             |      |                                   |                 | Tree products production-predomi-             | 0842        |
|             |                             |      |                                   | 0313            | nantly gum extracting (except pine            | 0012        |
|             |                             |      |                                   |                 | gum) and bark.                                |             |
|             |                             |      |                                   | 8316            | Tree products production predomi              | 0843        |
|             |                             |      |                                   | 0310            | nantly pine gum extraction.                   | 00+3        |
|             |                             |      |                                   | 8317            |   |             |
|             |                             |      |                                   | 0317            | tion—mixed uses.                              |             |
|             |                             |      |                                   | 0210            | Other commercial forestry produc              |             |
|             |                             |      |                                   | 8319            |   |             |
|             |                             |      |                                   |                 | — tion, NEC.                                  |             |
|             |                             | 832  | Forestry services.                | 8321            | Forest nurseries.                             | 0822        |
|             |                             |      |                                   | 8329            | Other forestry services, NEC.                 | 0851        |
|             |                             | 839  | Other forestry activities and re  | 8390            | Other forestry activities and related         |             |
|             |                             |      | lated services, NEC.              |                 | services, NEC.                                |             |
| <b>Q</b> /I | Fishing activities and re   | 841  | Fisheries and marine products.8   | 8411            | Finfish fisheries.                            | 0912        |
| 0-7         | lated services.             | 0+1  | r isheries and marme products.    | 8412            |   | 0913        |
|             | lated services.             |      |                                   |                 | Other fisheries and marine products,          | 0914 and 09 |
|             |                             |      |                                   | 8/11/9          | — NEC.  | 0914 and 03 |
|             |                             | 842  | Fish                              | 8421            | — NEC.<br>Fish hatcheries.                    | Incl. 0989  |
|             |                             | 842  | Fishery services.                 |                 |   | Incl. 0989  |
|             |                             |      |                                   | 8429            | Other fishery services, NEC.                  |             |
|             |                             | 849  | Other fishery activities and re   | 8490            | Other fishery activities and related          |             |
|             |                             |      | lated services, NEC.              |                 | services, NEC.                                |             |
| 85          | Mining activities and re    | 851  | Metal ore mining.                 | 8511            | Iron ore mining.                              | 101         |
| 05          | lated services.             | 051  | Wetar ore mining.                 |                 | Copper ore mining.                            | 102         |
|             | fated services.             |      |                                   |                 | Lead and zinc ore mining.                     | 103         |
|             |                             |      |                                   |                 | Gold and silver ore mining.                   | 103         |
|             |                             |      |                                   |                 | Bauxite and other aluminum ore                | 104         |
|             |                             |      |                                   | 0313            | — Bauxite and other aluminum ore<br>— mining. | 103         |
|             |                             |      |                                   | 0516            |   | 100         |
|             |                             |      |                                   | 6310            | Ferroalloy ore (except vanadium) mining.      | 106         |
|             |                             |      |                                   | 8519            | Other metal ore mining, NEC.                  | 109         |
|             |                             | 950  | Coal mining.                      | 8521            | Anthracite coal mining.                       | 111         |
|             |                             |      | Coar mining.                      |                 | Bituminous coal mining.                       |             |
|             |                             |      |                                   |                 | Lignite coal mining.                          |             |
|             |                             |      |                                   | <del>83∠3</del> | Ligitte coal mining.                          | 1212        |
|             |                             | 853  | Crude petroleum and natural gas.  | 8530            | Crude petroleum and natural gas.              | 131         |
|             |                             | 054  | 3.6° ' 1 ' C                      | 0544            | <b>D</b> :                                    | 4.44        |
|             |                             | 854  | Mining and quarrying of non-      | 8541            | Dimension stone.                              | 141         |

|                                   | metallic minerals (except      | 8542 | Crushed and broken stone (including    | 142 |
|-----------------------------------|--------------------------------|------|--|-----|
|                                   | fuels).                        |      | <del>riprap) quarrying.</del>          |     |
|                                   |                                | 8543 | Sand and gravel quarrying.             | 144 |
|                                   |                                | 8544 | Clay, ceramic, and refractory miner    | 145 |
|                                   |                                |      | als mining.                            |     |
|                                   |                                | 8545 | Chemical and fertilizers (mineral)     | 147 |
|                                   |                                |      | mining.                                |     |
|                                   |                                | 8549 | Other mining and quarrying of non      | 148 |
|                                   |                                |      | metallic minerals (except fuels), NEC. |     |
| <del>855</del>                    | Mining services.               | 8551 | Metal mining services.                 | 108 |
|                                   |                                | 8552 | Coal mining services.                  |     |
| 1112 and 1213                     |                                |      |  |     |
|                                   |                                | 8553 | Crude, petroleum and gas field         | 138 |
|                                   |                                |      | services.                              |     |
|                                   |                                | 8554 | Nonmetallic mining (except fuel)       | 148 |
|                                   |                                |      | services.                              |     |
|                                   |                                | 8559 | Other mining services, NEC.            |     |
|                                   |                                |      |  |     |
| 89 Other reSource: production 890 | Other reSource: production and | 8900 | Other reSource: production and extrac  |     |
| and extraction, NEC.              | extraction, NEC.               |      | tion, NEC.                             |     |
|                                   | <del>B 23</del>                |      |  |     |

| FOOTNOTES  | farm or ranch. These areas are usually part of         |
|--|--|
| the public domain in   | • •  |
|  | which grazing has been permitted.                      |
| - The SIC codes are listed for purposes of reference. They are the             | Scode 821 "Agricultural processing" includes           |
| only preliminary   |  |
| codes in the SIC system that most nearly correspond to the 4 digit land        | processing of agricultural products. Any               |
| extensive processing, packing,   |  |
| use activity indicated. (See ch. III, Se. A3, "The Use of Standard             | canning, or manufacturing is coded 21, "Food           |
| and kindred products   |  |
| Industrial Classification Nomenclature.") A dash indicates that there          | manufacturing."  |
| is no corresponding SIC code.  | Code 83"Forestry activities and related                |
| services." The categories  |  |
| <sup>2</sup> Code 81 "Agriculture." A parcel of land is considered to be in    | in this classification are based upon primary use      |
| of the land. It is   |  |
| agricultural use if 10 or more acres are under cultivation, in tree or         | recognized that other activities, e.g., recreation     |
| or the grazing of live-  |  |
| bush crops, or are used for livestock or poultry purposes. The 10 acres        | stock may also be taking place within these            |
| forested areas. However,   |  |
| may include the area of the residence, if there is one, and the immediate      | these types of activities are considered secondary     |
| in nature and not  |  |
| associated area surrounding the residence. coded. Activities such as minir     | ng (code 85), permanent camping areas                  |
| <sup>3</sup> A farm may consist of several ownership or rented parcels of land | (code 7491), and logging camps (code 2410),            |
| located within the   |  |
| that are noncontiguous. However, each parcel should be linked to               | forested areas should be separately identified.        |
| gether as one "farm management unit," and identified by only one               | <sup>7</sup> Code 831 "Commercial forestry production" |
| includes those   |  |
| 3 or 4 digit category, e.g., code 8120, "Farms (predominant crops, cash        | forested areas not on the farms or ranches that        |
| are being managed or   |  |
| grains)."  | have been set aside to grow tree crops for             |
| "industrial wood" or to obtain   |  |
| Using the "Farm use" categories in app. 2 of this report, farm (i.e.,          | tree products such as sap, bark, or seeds.             |
| "Industrial wood" includes   |  |
| the farm management units) are to be classified by the most predominant        | commercial roundwood products, such as saw             |
| logs and pulpwood, but   |  |

| include grasslands used for grazing purposes that are not a part of a    Code   Category   Code   Category   Code   Category   | SIC                           |
|--|-------------------------------|
| Code   Category   Code   Category   Code   Category   Code   Category  | SIC<br>Reference <sup>‡</sup> |
| Code Category Code Category Code Category Code Category  91 Undeveloped and unused 910 Undeveloped and unused land 9100 Undeveloped and unused land area land area (excluding non-area (excluding noncommercial forest development).  include grasslands used for grazing purposes that are not a part of a part o | SIC<br>Reference <sup>‡</sup> |
| Code Category Code Category Code Category Code Category  91 Undeveloped and unused 910 Undeveloped and unused land 9100 Undeveloped and unused land area land area (excluding non- area (excluding noncommer (excluding noncommercial forest development).2  | SIC<br>Reference <sup>‡</sup> |
| Code Category Code Category Code Category Code Category  91 Undeveloped and unused 910 Undeveloped and unused land 9100 Undeveloped and unused land area land area (excluding non- area (excluding noncommer (excluding noncommercial forest   | SIC<br>Reference <sup>‡</sup> |
| Code Category Code Category Code Category 91 Undeveloped and unused land 9100 Undeveloped and unused land area   | SIC<br>Reference <sup>‡</sup> |
| include grasslands used for grazing purposes that are not a part of a  Code Category Code Category  Code Category  | SIC<br>Reference <sup>‡</sup> |
| include grasslands used for grazing purposes that are not a part of a  | SIC<br>Reference <sup>‡</sup> |
|  | SIC.                          |
|  |                               |
|  |                               |
| mining operation.  |                               |
| -4Code 8191 "Range and grass land pastures (not form or ranch)" place if these processes are an integral part of the   |                               |
| screening, etc.) are taking  4Code \$101. "Penga and gross land pactures (not form or reach)"  place if these processes are an integral part of the  |                               |
| nance)," code 8180. of raw materials (e.g., washing, crushing,   |                               |
| preliminary processing   |                               |
| to above), the farm is identified as "Farms (general no predomi These categories also include those areas where  |                               |
| quarrying, or by drilling,   |                               |
| -up 25 percent of the total farm area (excluding those areas referred may be tunnel excavation, strip mining,  |                               |
| <del>purposes. the process</del>   |                               |
| - (e.g., corn crop, cotton crop, etc.) within a farm, none of which takes surface areas being used for mining or drilling  |                               |
| services" include those  |                               |
| -sold in the previous years, and if there are 3 or more "Farm uses" <sup>9</sup> Code 85 "Mining activities and related"   |                               |
| - each came to less than 50 percent of the value of the farm products (predominantly fishing vessels)."  |                               |
| 4414, "Marine terminals  |                               |
| d. If the percentage of dairy, livestock, and poultry products, separate fishery establishments, they are coded  |                               |
| facilities serve several   |                               |
| is identified as "Farms (predominantly poultry)," code 8170. part of a single fishery operation. When docking  |                               |
| facilities are an integral   |                               |
| the previous year came from the sale of poultry and eggs, the farm facilities and their associated areas when these  |                               |
| include the docking  |                               |
| e. If 50 percent or more of the value of the farm products sold in manufacturing," code 21. These categories also  |                               |
| and kindred products   |                               |
| -dairy)," code 816. of these products should be coded under "Food  |                               |
| canning, or manufacturing  |                               |
| the farm is identified as "Farms and ranches (livestock, other than However, any extensive processing, packing,  |                               |
| processing, e.g., salting.   |                               |
| the farm is identified as "Farms and ranches (livestock, other than These activities may include some preliminary  |                               |
| sponges, turtles, frogs, etc.  |                               |
| the previous year came from the sale of livestock, wool, or mohair,  of shellfish, or the gathering of seaweed,  |                               |
| the catching or taking   |                               |
| b. If 50 percent or more of the value of the farm products sold in ments primarily engaged in commercial fishing,  |                               |
| include those establish  |                               |
| - min curves, the farm is identified as Farm (predominantly dury 922, nonreserve forests (undeveloped).  - products)," code 8150.  - *Code 841 "Fisheries and marine products"   |                               |
| - and calves, the farm is identified as "Farm (predominantly dairy 922, "nonreserve forests (undeveloped)."  |                               |
| of the trees are coded   |                               |
| previous year came from the sale of dairy products, or the sale of cows ranches, or estates with no commercial use made  |                               |
| areas not on farms.  |                               |
| activity, they should  a. If 50 percent or more of the value of the farm products sold in the  |                               |
|  |                               |
| type of forest reserve, and nongrazed forested areas. Exceptions to this rule are: but because of their designation for recreational   |                               |
| buildings, nonresident farm buildings, areas in feed crops, and grazed "Parks," e.g., national or State parks, are also a  |                               |
| are coded 921.   |                               |
| farm area) excluding the areas used by farm residences and associated withdrawn from any commercial use of the trees,  |                               |
| reserves," i.e., areas   |                               |
| use made of the land (the farm use taking up the greatest percentage of excludes fuel wood and fence posts. "Forest  |                               |

|   | 922  | Nonreserve forests (undeveloped).            | 9220 | Nonreserve forests (undeveloped).4           |
|---|------|--|------|--|
| 93 Water areas.                                 | 931  | Rivers, streams, or creeks.                  | 9310 | Rivers, streams, or creeks.                  |
|   | 932  | Lakes.                                       | 9320 | <u>Lakes.5</u>                               |
|   | 933  | Bays or lagoons.                             | 9330 | Bays or lagoons.                             |
|   | 934  | Oceans and seas.                             | 9340 | Oceans and seas.                             |
|   | 939  | Other water areas, NEC.                      | 9390 | Other water areas, NEC.                      |
| 94 Vacant floor area.                           | 940  | Vacant floor area.                           | 9400 | Vacant floor area.                           |
| 95 Under construction.                          | 951  | Under construction (residential).            | 9510 | Under construction (residential).6           |
|   | 952  | Under construction (nonresidential).         | 9520 | Under construction (nonresidential).7        |
| 99 Other undeveloped land and water areas, NEC. | 990  | Other undeveloped land and water areas, NEC. | 9900 | Other undeveloped land and water areas, NEC. |
| See footnotes on following page.                | B 24 |  |      |  |

### 

| FOOTNOTES   | <sup>4</sup> Code 9220 "Nonreserve forests (undeveloped)" are    |
|---|--|
| major forested  | •  |
| - The SIC codes are listed for purposes of reference. They are the        | areas not on a farm, ranch, or large estate with no              |
| commercial use made   |  |
| codes in the SIC system that most nearly correspond to the 4 digit        | of the trees. It is recognized that other activities such        |
| as recreation or  |  |
| land use activity indicated. (See ch. III, Se. A3, "The Use of Standard   | the grazing of livestock may also be taking place                |
| within these forested   |  |
| Industrial Classification Nomenclature.") A dash indicates that there     | areas. However, these types of activities are                    |
| considered secondary in   |  |
| is no corresponding SIC code.   | nature and not coded. Activities such as mining (code            |
| 85), permanent  |  |
| - <sup>2</sup> Code 9100 "Undeveloped and unused land area (excluding non | camping areas (code 7491), and logging camps (code               |
| 2410), located  |  |
| commercial forest development)" identifies those parcels of land that     | within these forested areas should be separately                 |
| <del>identified.</del>  |  |
| appear to be undeveloped or if previously developed, are presently        | <sup>5</sup> Code 9320 "Lakes" include permanent lakes           |
| (natural or manmade)  |  |
| vacant and unused. This category includes such areas as vacant lands      | with a minimum size of 1 acre. Impounded surface                 |
| water areas used  |  |
| that once were farms, as well as vacant parcels where structures have     | for storage should be identified as "Water storage,"             |
| code 4833.  |  |
| been demolished. Vacant nonresidential buildings are coded 9400,          | <sup>6</sup> Code 9510 Residential facilities under construction |
| are considered  |  |
| "Vacant floor area."  | to be completed when all exterior windows and doors              |
| are installed and   |  |
| -3Code 921"Forest reserves" are forested areas withdrawn from             | the usable floors are in place. If construction has not          |
| reached this  |  |
| commercial utilization, and which are reserved through statute or admin   | point, the parcel should be identified as "Under                 |
| construction (resi  |  |
| istrative regulation for specific conservation purposes. Forested areas   | dential)," code 9510   |
| designated as park sites may also be restricted from commercial forestry  | <sup>2</sup> Code 9520 "Under construction (nonresidential)" is  |
| used only if  |  |

| production, but because of their designation for recreational activity | there is no me | ans of identifying the activity or |
|--|----------------|------------------------------------|
| activities that will   |                |                                    |
| they should be identified and coded as "Parks" (code 76).              | occupy the str | ucture when it is completed.       |
| (Source: Amended at 29 Ill. Reg.                                       | , effective    | )                                  |

# TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE H: NOISE CHAPTER I: ILLINOIS POLLUTION CONTROL BOARD

## PART 910 MEASUREMENT PROCEDURES FOR THE ENFORCEMENT OF 35 ILL. ADM. CODE 900 & 901

| Section       |   |
|---------------|---|
| 910.100       | General   |
| 910.102       | Instrumentation   |
| 910.103       | Definitions   |
| 910.104       | Measurement Techniques for 35 Ill. Adm. Code 900                                      |
| 910.105       | Measurement Techniques for 35 Ill. Adm. Code 901                                      |
| 910.106       | Protocols for Determination of Sound Levels   |
| 910.107       | Measurement Techniques for Highly-Impulsive Sound                                     |
| 910.Appendix  | A Tables of Long-Term Background Ambient Noise  |
| Table A       | Daytime long-term background ambient L <sub>eq</sub> levels in decibels by land use   |
|               | categories and 1/3 octave-band level  |
| Table B       | Nighttime long-term background ambient L <sub>eq</sub> levels in decibels by land use |
|               | categories and 1/3- octave band level.  |
| Table C       | Daytime long-term background ambient L <sub>eq</sub> levels in decibels by land use   |
|               | categories and octave band level.   |
| Table D       | Nighttime long-term background ambient L <sub>eq</sub> levels in decibels by land use |
|               | categories and octave band level.   |
|               | _   |
| AUTHORITY     | 7: Implementing and authorized by Sections 25 and 27 of the Environmental             |
| Protection Ac | t [415 ILCS 5/25 and 27]  |
|               |   |
| SOURCE: A     | dopted at 29 Ill. Reg, effective  |
|               |   |
| Section 910.1 | 00 General  |

This Part specifies the instrumentation to be used when conducting acoustical noise measurements and sets forth the specific acoustical measurement techniques to be employed when conducting time-averaged sound level ( $L_{eq}$ ) measurements. The instrumentation requirements and measurement techniques as more specifically set forth in this Part must be used in determining whether a noise Source is in compliance with 35 Ill. Adm. Code 900 and 901.

Section 910.102 Instrumentation

- a) Sound Measuring Equipment
  - An integrating sound level meter used alone or used in conjunction with an octave band or one-third octave band filter set or a real-time sound analyzer (octave band or one-third octave band) must conform with the following standards incorporated by reference at 35 Ill. Adm. Code 900.106:
    - A) ANSI S1.4 1983 (R2001) "American National Standard Specification for Sound Level Meters, and ANSI S1.4 A-1985 "Amendment to ANSI S1.4- 1983."
    - B) ANSI S1.11 1986 (R1998) "American National Standard Specifications for Octave-Band and Fractional-Octave-Band Analog and Digital Filters."
    - C) ANSI S1.6 1984 (R2001) "American National Standard Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurements."
    - D) ANSI S1.8 1989 "American National Standard Reference Quantities for Acoustical Levels."
    - E) International Electrotechnical Commission, IEC 804-2000 Integrating/Averaging Sound level meters.
  - A magnetic tape recorder, graphic level recorder or other indicating device used must meet the requirements of the Society of Automotive Engineers (SAE) Recommended Practice J184 "Qualifying a Sound Data Acquisition System," November 1998, incorporated by reference at 35 Ill. Adm. Code 900.106
  - 3) The laboratory calibration of instrumentation used for acoustic measurement must be traceable to the National Bureau of Standards, and must be performed no less than once every 12 months.
  - 4) For outdoor measurement a windscreen must be attached to the microphone
- b) Weather Measuring Equipment
  - 1) An anemometer and compass or other devices must be used to measure wind speed and direction in accordance with the manufacturer's recommended procedures.

- 2) A thermometer, designed to measure ambient temperature, must be used in accordance with the manufacturer's recommended procedures.
- 3) A hygrometer must be used in accordance with the manufacturer's recommended procedures to measure the relative humidity.
- 4) A barometer must be used in accordance with the manufacturer's recommended procedures to measure the barometric pressure.

Section 910.103 Definitions

The definitions contained in 35 Ill. Adm. Code 900.101 apply to this Part.

Section 910.104 Measurement Techniques for 35 Ill. Adm. Code 900

Sound pressure level measurements are not required to establish a violation of 35 Ill. Adm. Code 900.102 (nuisance noise). However, sound pressure level measurements may be introduced as corroborating evidence when alleging a violation of 35 Ill. Adm. Code 900.102. If sound pressure level measurements are collected, manufacturer's instructions must be followed for the equipment used and 35 Ill. Adm. Code 910.105 may be used as guidance in gathering data.

Section 910.105 Measurement Techniques for 35 Ill. Adm. Code 901

Sound pressure level measurements must be obtained in accordance with the following measurement techniques to determine whether a noise source is in compliance with 35 Ill. Adm. Code 901:

- a) Site Selection
  - 1) Measurements may be taken at one or more microphone positions within the appropriate receiving land. Measurement instruments must be set up outdoors within the boundaries of the receiving land for the purpose of determining whether a noise source is in compliance with 35 Ill. Adm. Code 901.
  - 2) Measurement instruments must be set up not less than 25 feet (7.6 meters (m)) from the property-line-noise-source. The 25-foot (7.6 m) setback requirement is from the noise source and not the property line unless the noise source is contiguous to the property line.
  - 3) Other measurement locations may be used for investigatory purposes such as, but not limited to, the following:
    - A) Determining the extent of noise pollution caused by the source of sound:
    - B) Determining the ambient; and

- C) Analyzing those acoustical parameters that describe the sound source.
- 4) For measurements of sound sources with no audible discrete tones, microphones should not be set up less than 25 feet (7.6 m) from any reflective surface which may affect data. If measurements must be taken within 25 feet (7.6 m), the effect, if any, of the reflective surface on the measured data must be determined.
- 5) For measurements of sound sources with audible discrete tones, microphones must not be set up less than 50 feet (15.2 m) from any reflective surface which may affect data. If measurements must be taken within 50 feet (15.2 m), the effect, if any, of the reflective surface on the measured data must be determined.
- 6) Objects with small dimensions (trees, posts, bushes, etc.) must not be within 5 feet (1.5 m) of the microphone position. If measurements must be taken within 5 feet (1.5 m) of such objects, the effect, if any, on the measured data must be determined.

## b) Instrumentation Set Up

- 1) A tripod must be set at the chosen site. The tripod must be extended to a height between 3 feet 8 inches (1.12 m) and 4 feet 10 inches (1.47 m) above ground.
- 2) A microphone must be attached to the appropriate end of a 5-foot (1.5 m) or longer cable and must be affixed to the top of the tripod. The other end of the cable must be connected to the measuring instrument
- 3) The angle of incidence of the microphone must be adjusted to yield the flattest frequency response in accordance with the manufacture's specifications.
- 4) The measuring instrument must be separated from the microphone so as to minimize any influence on the measurements. The cable movement must be minimized during the measurement period.
- c) Measurement Site Operation and Instrument Calibration
  - 1) Before taking sound pressure level measurements, measure and record (near the measurement site):
    - A) Wind speed and direction;

- B) Ambient temperature;
- C) Relative humidity; and
- D) Barometric pressure.
- 2) Turn the measuring instrument on and allow the instrument to stabilize. Monitor and record the battery condition of the calibrator and all measuring instruments.
- 3) Turn the calibrator on at its appropriate frequency. Allow the calibrator to stabilize and calibrate the measuring system according to the manufacturer's specifications. After the measuring system has been calibrated, remove the calibrator and attach a windscreen to the microphone.
- 4) Adjust the microphone to the angle of incidence that will yield the frequency response in accordance with the manufacturer's specifications.
- Measure the sound pressure level data within the limitations of subsection (d) and according to the manufacturer's recommended procedures. Other sound pressure levels may be used for investigatory purposes such as, but not limited to, the following:
  - A) Determining the extent of noise pollution caused by the source of sound;
  - B) Determining the ambient; and
  - C) Analyzing those acoustical parameters that describe the sound source.
- 6) While sound measurements are being taken, the operator must be separated from the microphone so as to minimize any influence on the measurements.
- While measurements are being taken, visual and aural surveillance of extraneous sound sources and varying wind conditions must be made to insure that the conditions of measurement are accurately known. Record any variations in these parameters that may affect data. The number and basis for affected data block must be recorded. When using a tape recorder, voice commentary concerning conditions will be recorded on the cue track.

- 8) To minimize wind effects on the microphone, sound measurements must not be taken when the wind velocity is greater than 12 miles per hour (5.4 m/second) at the microphone position.
- 9) For the purposes of data correction, the ambient sound at the measurement site must be determined by means of measurement or analysis.
- After taking sound pressure level measurements, remove the windscreen and attach the calibrator to the microphone. Turn the calibrator on at its appropriate frequency. After allowing the calibrator to stabilize, monitor and record the measuring system response. When the measuring system response varies by more than  $\pm$  0.5 dB from the most recent field calibration, the sound pressure level measurements obtained since such most recent field calibration cannot be used for enforcement purposes.
- 11) Before removing the calibrator from the microphone, turn the calibrator off. If the ambient sound has not been determined by means of measurement, determine the noise floor of the measuring system. If the noise floor is within 10 dB of the measured sound pressure level data, such noise floor measurements must be recorded.
- 12) At the end of the sound survey, monitor and record the battery condition of the calibrator and all measuring instruments. Near the measurement site, measure and record:
  - A) Windspeed and direction;
  - B) Ambient temperature;
  - C) Relative humidity; and
  - D) Barometric pressure.
- Record the physical and topographical description of the ground surface within the vicinity of the measurement site, survey site location, a description of the sound source, a diagram of the area, the location of reflective surfaces near the microphone, and the approximate location of the noise source relative to the microphone position.
- 14) A magnetic tape recorder may be used to preserve the raw data.

  Calibration signals must be recorded at the beginning and end of each tape as well as at intermediate times such as when relocating to a new measurement site. Voice commentary concerning local conditions and affected data blocks must be recorded on the cue track. The original tape recording must be preserved for subsequent evaluation. Laboratory analyses may be performed on magnetic tape recorded field data. A

description of the laboratory instrumentation and procedures must be recorded. Analyses used in the laboratory must be correlated to field measurement techniques.

- d) Limiting Procedures for Specific Types of Data Acquisition
  - 1) For measurements of non-impulsive sound with audible discrete tones, one-third octave band sound pressure levels must be obtained in determining whether a noise source is in compliance with 35 Ill. Adm. Code 901.106.
  - 2) For measurements of non-impulsive sound with no audible discrete tones, octave band sound pressure levels must be obtained in determining whether a noise source is in compliance with 35 Ill. Adm. Code 901.102 and 901.103.

#### e) Correction Factors

If necessary, correction factors rounded to the nearest 1/2 decibel must be applied to sound pressure level measurements. The correction factors applicable to the measurement system may include, but are not limited to, corrections for windscreen interference and the sound pressure level difference between consecutive field calibrations. Such calibration correction factors must only be used to make negative corrections (subtraction from the field data). In no case must such calibration correction factors be added to the measured sound pressure levels so as to raise the sound pressure level field data. The correction factors applicable to the measurement site may include, but are not limited to, corrections for reflective surfaces and ambient sound.

### Section 910.106 Protocols for Determination of Sound Levels

a) The raw data collection procedures for the determination of equivalent continuous sound pressure level ( $L_{eq}$ ) are described in this Section using as an example the determination of a 1-hour  $L_{eq}$  corrected for ambient. The following procedures must be used:

#### 1) Using small blocks:

A) The 1-hour interval is divided into many small blocks of time such that corruption of the data from short-term background transient sound and loss of data can be limited to the corrupted or bad blocks. The block duration in seconds must remain fixed for any measurement hour. The duration must be neither less than 10 seconds nor greater than 100 seconds. For example, if the block duration is chosen to be 60 seconds (1 minute), then the data collection proceeds for 60, 1-minute periods of measurement.

- B) The collected data for each block represents a block duration  $L_{eq}$  (or sound exposure level (SEL)) in octave bands (or 1/3-octave bands if prominent discrete tones may be present).
- C) Data for any block corrupted by one or more short-term background transient sounds must be deleted.
- D) After deleting corrupted data blocks, there will be a fixed number of "good" data blocks remaining. This number is designated as N<sub>PLNS</sub>, where PLNS stands for Property-Line-Noise-Source. These remaining "good" blocks must be numbered consecutively. The subscript i is used to denote the numbering of the blocks in time order after corrupted data blocks have been deleted.
- E) The data for the N<sub>PLNS</sub> remaining blocks are time averaged on an energy basis by octave (or 1/3-octave band) using Equation 1 below. In this equation, two subscripts are used, i to designate time and j to designate the specific frequency, either an octave band or 1/3 octave band. The raw, 1-hour L<sub>eq</sub> in the *j*th frequency band is given by:

$$L_{eqj} = 10\log\left(\frac{1}{N_{PLNS}}\sum_{i=1}^{N_{PLNS}} 10^{\left(\frac{L_{eqj}}{10}\right)}\right)$$
 [Equation 1]

where  $L_{eq}$  is the  $L_{eq}$  in the *j*th frequency band for the *i*th non-deleted data block.

F) In terms of SEL, the raw SEL in the *j*th frequency band is given by:

$$SEL_{j} = 10\log\left(\sum_{i=1}^{N_{PLNS}} 10^{\left(\frac{SEL_{ij}}{10}\right)}\right)$$
 [Equation 2]

G) The raw, 1-hour  $L_{eq}$  in the *j*th frequency band is given in terms of the corresponding  $SEL_j$  by:

$$L_{eqj} = SEL_j + 10\log\left(\frac{3600}{N_{PLNS}\Delta T}\right)$$
 [Equation 3]

Where T is the block duration in seconds,  $N_{PLNS}$  is the number of non-discarded data blocks, and 3600 is the number of seconds in an hour.

- 2) Continuous Data Collection:
  - A) The measuring instrument must be adjusted to continuously measure sound pressure and accumulate  $L_{eq}$  for each block of time. For convenience, the hour may be split into several smaller blocks such as 10, 6-minute blocks or 4, 15-minute blocks, etc.
  - B) A switch on the measuring instrument must be available to inhibit data collection whenever a short-term background transient sound occurs. This switch shall be used to prevent short-term background ambient sounds from corrupting the data.
  - C) Data collection must proceed for one hour. The energy average of the several measured L<sub>eqij</sub> each weighted by the number of seconds actually accumulated during the *i*th block results in the raw, 1-hour L<sub>eq</sub> in each frequency band given by:

$$L_{eqj} = 10\log\left(\frac{1}{T_{PLNS}} \sum_{i=1}^{N_{PLNS}} T_i 10^{\left(\frac{L_{eqij}}{10}\right)}\right)$$
 [Equation 4]

Where  $L_{eqij}$  is the  $L_{eq}$  in the jth frequency band for the *i*th large block.  $T_i$  is the actual number of seconds of "good"data accumulated in the *i*th block of time (e.g., 6 to 15 minutes); and

$$T_{PLNS} = \sum_{i=1}^{N_{PLNS}} T_i$$
 [Equation 5]

- 3) Minimum data collection requirements:
  - A) Initial Measurement Duration. The property-line-noise-source measurements must proceed initially for one hour. Because of correction for short-term background transient sounds, actual reported data collection time T, in seconds, may be less than 3600 seconds (one hour).
    - i) If small blocks of data are used for data collection, then the total measurement duration in seconds, T<sub>PLNS</sub> is given by N<sub>PLNS</sub> T, where T is the length of each block in seconds and N<sub>PLNS</sub> is the number of non-discarded blocks. If data inhibition is used for data collection, then T<sub>PLNS</sub> is the number of non-inhibited seconds during the measurement hour. In either case, T<sub>PLNS</sub> must be no less than 900 seconds.

- ii) If very few blocks were used for data collection, then the duration of each block, T, may be too long and should be reduced.
- iii) For either data collection method, sounds considered to be short-term transient may actually be part of the long-term background ambient and should be so redefined.
- B) Extended Measurement Duration. If T<sub>PLNS</sub> is less than 900 seconds during the first hour of measurements, the raw data collection procedures must be appropriately modified and new measurements must proceed for an additional hour. If T<sub>PLNS</sub> after combining the first and the second hour of measurements is also less than 900 seconds, then the raw data collection must continue using the data inhibition method or method employed during the second hour until T<sub>PLNS</sub> is greater than or equal to 900 seconds.
- 4) Correction for Long-Term Background Ambient Sound:
  - A) The raw 1-hour  $L_{eq}$  must be corrected for long-term background ambient sound. The subsection below describes methods to obtain the long-term background ambient sound level in the jth frequency band. The correction is dependent on the difference (in decibels) between the raw, 1-hour, jth band property-line-noise-Source:  $L_{eqj}$  and corresponding jth band long-term background ambient sound level. The correction to be applied is as follows:
    - i) If the difference between the raw 1-hour  $L_{eq}$  and the long-term background ambient sound is larger than 10 decibels, then the correction must be set to 0.
    - ii) If the difference between the raw 1-hour  $L_{eq}$  and the long-term background ambient sound difference is less than 3 decibels, then the *j*th frequency-band level,  $L_{eqj}$ , must be set equal to 0.
    - iii) If the difference between the raw 1-hour  $L_{\rm eq}$  and the long-term background ambient sound is between 3 and 10 decibels then the correction given in Table 1 below must be subtracted from the raw, 1-hour property-line-noise-source  $L_{\rm eqi}$

Table 1 Corrections in dB for long-term Background ambient sound

| Difference | Correction |
|------------|------------|
| (dB)       | (dB)       |
| 3          | 3          |
| 4          | 2.3        |
| 5          | 1.7        |
| 6          | 1.3        |
| 7          | 1.0        |
| 8          | 0.7        |
| 9          | 0.6        |
| 10         | 0.5        |

- B) The long-term background ambient corrected level must be the property-line-noise-source  $L_{eqi}$  reported for the jth frequency band.
- b) Obtaining the background ambient sound level:
  - 1) The background ambient must be measured for the purposes of this Section during a 10-minute interval.
  - 2) Long-term background ambient measurement procedures are similar to procedures to measure the property-line-noise-source itself. Eliminating short-term background ambient transient sounds from the measurement of average long-term background ambient sound proceeds in a manner similar to the measurement of the property-line-noise-source emissions themselves. The two methods for measurement are: to divide the 10-minute measurement into short blocks of data, or inhibit data collection when short-term background transient sounds occur. The same method must be used for gathering both the property-line-noise source data and the corresponding long-term background ambient data. The measurement procedures for each method are given in subsections (b) (3), (b) (4) and (b) (5) of this Section:
  - 3) Using small blocks of data
    - A) The 10-minute measurement of long-term background ambient must be divided into short measurement blocks. The duration of these blocks must remain constant during the entire measurement, both when measuring the long-term background ambient and when measuring the property-line-noise-source. The duration of this measurement block in seconds, T, must divide exactly (without remainder) into 600 and must be neither greater than 100 seconds nor less than 10 seconds.
    - B) All data for any measurement block corrupted by one or more short-term ambient transient sounds must be discarded. The

- number of remaining, non-discarded measurement blocks is designated  $N_{BA}$ , where BA stands for background ambient.
- C) The  $L_{eq}$  for each octave (or 1/3 octave) band are time- averaged on an energy basis over the  $N_{BA}$  remaining measurement blocks to obtain average long-term background ambient  $L_{eq}$  per band. Equation 1 (see subsection (a) (1) (E) of this Section) is used for this calculation with  $N_{BA}$  replacing  $N_{PLNS}$  as the number of elemental blocks to be summed. The total duration of the measurement in seconds,  $T_{BA}$ , is given by  $N_{BA}$  multiplied by T.

### 4) Continuous Data Collection.

- A) The measuring instrument must be adjusted according to manufacturer's instructions to continuously measure sound pressure and accumulate (i.e record)  $L_{\rm eq}$ . A switch must be available to inhibit data collection whenever a short-term background transient sound occurs, (and on some instruments, a button may be available to delete the most recent, previous data).
- B) The switches or buttons must be used to prevent short-term background ambient sounds from corrupting the data.
- C) Data collection must proceed for 10 minutes. The result is the 10-minute, long-term background ambient  $L_{eq}$  in each band.
- D)  $T_{BA}$  is the number of non-inhibited measurement seconds during the 10-minute measurement period.
- 5) The minimum duration, for either method,  $T_{BA}$  must be no less than 150 seconds. If  $T_{BA}$  is less than 150 seconds, then the measurement of the long-term background ambient must continue beyond the original 10 minutes and until  $T_{BA}$  for the total long-term background ambient measurement is greater than or equal to 150 seconds.
- 6) Measurement Alternatives. The long-term background ambient-noise should ideally be measured at the potential violation site just before measurement of the property-line-noise-source emissions. However, turning off the property-line-noise-source may not always be possible. The following are a hierarchical order of five procedures for obtaining the long-term background ambient noise. The first four procedures involves direct measurement; the fifth procedure provides for use of tables of values obtained from extensive measurements. These are not equivalent procedures but are ordered from what is considered to be the most accurate to what is considered to be the least accurate procedure.

- A) Direct Measurement Procedure –1: With the property-line-noise-source (PLNS) turned off, measure the long-term background ambient noise within the hour before or within the hour after measurement of the PLNS emissions at the location where the PLNS measurements are being taken and with the measurement equipment used for the PLNS measurements.
- B) Direct Measurement Procedure-2: With the PLNS turned off, measure the long-term background ambient during a similar time period in terms of background ambient sound level, within one (1) to twenty-four (24) hours before, or within one (1) to twenty-four (24) hours after measurement of the PLNS emissions at the location where the PLNS measurements are being taken and with the measurement equipment used for the PLNS.
- C) Direct Measurement Procedure- 3: With the PLNS turned off, measure the long-term background ambient during some other acoustically similar period within one (1) to thirty (30) days before, or within one (1) to thirty (30) days after measurement of the PLNS emissions. This alternate long-term background ambient measurement time might be a Saturday night or anytime during a Sunday or holiday. The measurements would be made at the location where the PLNS measurements are being taken and with the measurement equipment (or like equipment) used for the PLNS measurement.
- D) Direct Measurement Procedure-4: With the PLNS turned off, measure the long-term background ambient noise during some other acoustically similar period within thirty (30) to ninety (90) days before, or within thirty (30) to ninety (90) days after measurement of the PLNS emissions. These measurements would be made at the location where the PLNS measurements are being taken and with the measurement equipment (or like equipment) used for the property-line-noise-source measurements.
- E) Tables of Long-term Background Ambient Noise. Where none of the alternatives can be used, use the applicable long-term background ambient data taken from Tables A through D in Appendix A of this Part. These tables are organized by predominant land use and time of day (daytime or nighttime). There are separate tables for octave and 1/3- octave bands. The background environments presented in the table are based on extensive measurements conducted in the Chicago area and are divided into the five categories given below in accordance with Bonvallet, G.L., "Levels and Spectra of Traffic, Industrial, and Residential Area Noise," Journal of the Acoustical Society of

America, 23 (4), pp 435-439, July, 1951; and Dwight E. Bishop and Paul D. Schomer, Handbook of Acoustical Measurements and Noise Control, Chapter 50, Community Noise Measurements, 3<sup>rd</sup> Edition, Cyril M Harris, Editor, McGraw-Hill Book Co., New York (1991).

- i) Category 1: Noisy commercial and Industrial Areas. Very heavy traffic conditions such as in busy downtown commercial areas, at intersections of mass transportation and other vehicles including the Chicago Transit Authority trains, heavy motor trucks and other heavy traffic, and street corners where motor many buses and heavy trucks accelerate.
- ii) Category 2: Moderate Commercial and Industrial Areas, and Noisy Residential Areas. Heavy traffic areas with conditions similar to subsection (b)(6)(E)(i) of this Section but with somewhat less traffic, routes of relatively heavy or fast automobile traffic but where heavy truck traffic is not extremely dense, and motor bus routes.
- iii) Category 3: Quiet Commercial and Industrial Areas, and Moderate Residential Areas. Light traffic conditions where no mass transportation vehicles and relatively few automobiles and trucks pass, and where these vehicles generally travel at low speeds. Residential areas and commercial streets and intersections with little traffic comprise this category.
- iv) Category 4: Quiet Residential Areas. These areas are similar to Category 3 in subsection (b)(6)(E)(iii) of this Section but for this group the background is either distant traffic or is unidentifiable.
- v) Category 5: Very Quiet, Sparse Suburban or Rural Areas. These areas are similar to Category 4 subsection (b)(6)(E)(iv) of this Section but are usually in unincorporated areas and for this group there are few if any near neighbors.

Section 910.107 Measurement Techniques for Highly-Impulsive Sound Under 35 Ill. Adm. Code 901.104.

a) Measurement of highly-impulsive sound under Rule 901.104 can be made in two distinct and equally valid ways, namely the general method and the controlled test method.

- b) General Method: The general method is to measure the 1-hour, A-weighted  $L_{\rm eq}$  (not the octave or 1/3 octave band levels) using essentially one of the two procedures described in 35 III. Adm. Code 910.105 and 910.106.
  - 1) The procedure using small blocks of time to collect data is as follows:
    - A) The hour must be divided into small blocks and the A-weighted  $L_{\rm eq}$  must be measured for each of these small blocks of time.  $L_{\rm eq}$  must be measured for the entire hour but data collection must be inhibited whenever a short-term background transient sound occurs.
    - B) The duration of each block must be held constant during the hour. This duration in seconds must divide exactly into 900 and must be neither greater than 100 seconds nor less than 10 seconds.
    - C) The data for any block corrupted by one or more short-term background ambient sounds must be discarded.
  - 2) The continuous data collection procedures is as follows:
    - A) L<sub>eq</sub> must be measured for the entire hour.
    - B) Data collection must be inhibited whenever a short-term background transient sound occurs.
  - 3) Correction for the long-term background ambient must be accomplished using all of the other procedures and requirements enumerated in 35 Ill. Adm. Code 910.105 and 910.106 must be complied with to determine an A-weighted, 1-hour, background-ambient-corrected L<sub>eq</sub> for the highly impulsive property-line-noise-Source: under study.
- c) Controlled Test Method: For this method, the following procedures must be used:
  - 1) General Measurement Description
    - A) The sound exposure per impulse from each separate individual impulsive Source: is measured.
    - B) The total sound exposure per hour from each Source: is the sound exposure per event multiplied by the number of events per hour.
    - C) The grand total sound exposure (SE) per hours is the sum of the sound exposures per hour from each of the separate individual sources.

D) The reported SEL is obtained from the grand total sound exposure (SE) per hour using the following:

$$SEL = 10 \log (SE) + 94.$$
 [Eq. 7]

E) The equivalent level, L<sub>eq</sub> corresponding to a SEL measured or predicted for one hour (3600 seconds) is given by:

$$L_{eq} = SEL - 10 \log (3600).$$
 [Eq. 8]

- 2) Determination of Sound Exposure per Event must be as follows:
  - A) The sound exposure per event from each, separate, individual Source: must be determined by measuring the total A-weighted sound exposure for about 10 repetitions of this source. This set of about 10 measurements may be performed continuously over a short period of time, or this set of measurements may be performed over a discontinuous set of measurement periods. In either case, the total measurement duration must be less than 100 seconds.
  - B) These separate, individual property-line-noise-Source: controlled measurement must be free of any short-term ambient sounds. If any short-term background transient sounds occur during these measurements, then the measurement must be repeated until measurement data, free of any corrupting short-term background ambient sounds, are obtained.
  - C) The total measured A-weighted sound exposure for this group of about 10 repetitions must be corrected for long-term background ambient by subtracting the A-weighted long-term background ambient sound exposure. The sound exposure value subtracted must be the long-term A-weighted background ambient sound exposure per second multiplied by the number of seconds used to measure the several Source: repetitions.
  - D) The reported Source: A-weighted sound exposure per event must be the total corrected sound exposure divided by the number of Source: repetitions measured.
  - E) The background ambient must be measured for a short time, at least 30 seconds as near in time to the Source: measurements as possible, but within ½ hour. The total A-weighted long-term background ambient sound exposure per second is the total measured long-term background ambient sound exposure divided by the number of seconds of background ambient measurement.

F) There must be no short-term background ambient sounds present during the measurement of the long-term background ambient. If any short-term background transient sounds occur during these measurements, then the measurements must be repeated until long-term background ambient measurement data free of any corrupting short-term background ambient sound are obtained.

# 910. Appendix A Tables of Long-term Background Ambient Noise

910. Table A. Daytime long-term background ambient  $L_{eq}$  levels in decibels by land use categories and 1/3 octave-band level.

| les and 1/5 octave-band level.       | Background Category |    |    |    |    |
|--------------------------------------|---------------------|----|----|----|----|
| Octave-Band Center<br>Frequency (Hz) | 1                   | 2  | 3  | 4  | 5  |
| 20                                   | 63                  | 56 | 48 | 42 | 36 |
| 25                                   | 64                  | 57 | 49 | 43 | 37 |
| 31                                   | 65                  | 58 | 50 | 44 | 38 |
| 40                                   | 65                  | 58 | 51 | 44 | 38 |
| 50                                   | 66                  | 59 | 51 | 45 | 39 |
| 63                                   | 66                  | 59 | 52 | 46 | 40 |
| 80                                   | 67                  | 60 | 52 | 46 | 40 |
| 100                                  | 68                  | 60 | 53 | 47 | 41 |
| 125                                  | 67                  | 59 | 52 | 46 | 40 |
| 160                                  | 66                  | 59 | 52 | 46 | 40 |
| 200                                  | 66                  | 58 | 51 | 45 | 39 |
| 250                                  | 65                  | 58 | 50 | 44 | 38 |
| 315                                  | 64                  | 57 | 49 | 43 | 37 |
| 400                                  | 63                  | 55 | 48 | 42 | 36 |
| 500                                  | 62                  | 54 | 46 | 40 | 34 |
| 630                                  | 61                  | 53 | 44 | 38 | 32 |
| 800                                  | 60                  | 51 | 42 | 36 | 30 |
| 1000                                 | 58                  | 49 | 40 | 34 | 28 |
| 1250                                 | 56                  | 47 | 38 | 32 | 26 |
| 1600                                 | 54                  | 45 | 36 | 30 | 24 |
| 2000                                 | 52                  | 43 | 33 | 28 | 21 |
| 2500                                 | 50                  | 41 | 30 | 25 | 19 |
| 3150                                 | 49                  | 39 | 28 | 23 | 17 |
|                                      |                     |    |    |    |    |

| 4000   | 48 | 37 | 25 | 20 | 15 |
|--------|----|----|----|----|----|
| 5000   | 46 | 35 | 23 | 18 | 13 |
| 6300   | 44 | 33 | 21 | 16 | 10 |
| 8000   | 43 | 31 | 19 | 14 | 8  |
| 10,000 | 41 | 29 | 17 | 12 | 6  |
| 12,500 | 39 | 27 | 15 | 10 | 4  |

910. Appendix A Tables of Long-term Background Ambient Noise 910. Table B. Nighttime long-term background ambient  $L_{\rm eq}$  levels in decibels by land use categories and 1/3- octave band level.

|                                      | Background Category |    |    |    |    |
|--------------------------------------|---------------------|----|----|----|----|
| Octave-Band Center<br>Frequency (Hz) | 1                   | 2  | 3  | 4  | 5  |
| 20                                   | 53                  | 48 | 43 | 37 | 31 |
| 25                                   | 54                  | 49 | 44 | 38 | 32 |
| 31                                   | 55                  | 50 | 45 | 39 | 33 |
| 40                                   | 55                  | 50 | 46 | 39 | 33 |
| 50                                   | 56                  | 51 | 46 | 40 | 34 |
| 63                                   | 56                  | 51 | 47 | 41 | 35 |
| 80                                   | 57                  | 52 | 47 | 41 | 35 |
| 100                                  | 58                  | 52 | 48 | 42 | 36 |
| 125                                  | 57                  | 51 | 47 | 41 | 35 |
| 160                                  | 56                  | 51 | 47 | 41 | 35 |
| 200                                  | 56                  | 50 | 46 | 40 | 34 |
| 250                                  | 55                  | 50 | 45 | 39 | 33 |
| 315                                  | 54                  | 49 | 44 | 38 | 32 |
| 400                                  | 53                  | 47 | 43 | 37 | 31 |
| 500                                  | 52                  | 46 | 41 | 35 | 29 |
| 630                                  | 51                  | 45 | 39 | 33 | 27 |
| 800                                  | 50                  | 43 | 37 | 31 | 25 |
| 1000                                 | 48                  | 41 | 35 | 29 | 23 |
| 1250                                 | 46                  | 39 | 33 | 27 | 21 |
| 1600                                 | 44                  | 37 | 31 | 25 | 19 |
| 2000                                 | 42                  | 35 | 28 | 23 | 16 |
| 2500                                 | 40                  | 33 | 25 | 20 | 14 |

| 3150   | 39 | 31 | 23 | 18 | 12 |
|--------|----|----|----|----|----|
| 4000   | 38 | 29 | 20 | 15 | 10 |
| 5000   | 36 | 27 | 18 | 13 | 8  |
| 6300   | 34 | 25 | 16 | 11 | 5  |
| 8000   | 33 | 23 | 14 | 9  | 3  |
| 10,000 | 31 | 21 | 12 | 7  | 1  |
| 12,500 | 29 | 19 | 10 | 2  |    |

910. Appendix A Tables of Long-term Background Ambient Noise

910. Table C. Daytime long-term background ambient  $L_{eq}$  levels in decibels by land use categories and octave band level.

|                                      | Background Category |    |    |    |    |
|--------------------------------------|---------------------|----|----|----|----|
| Octave-Band Center<br>Frequency (Hz) | 1                   | 2  | 3  | 4  | 5  |
| 31                                   | 70                  | 63 | 55 | 49 | 43 |
| 63                                   | 71                  | 64 | 57 | 51 | 45 |
| 125                                  | 72                  | 64 | 57 | 51 | 45 |
| 250                                  | 70                  | 63 | 55 | 49 | 43 |
| 500                                  | 67                  | 59 | 51 | 45 | 39 |
| 1000                                 | 63                  | 54 | 45 | 39 | 33 |
| 2000                                 | 57                  | 48 | 38 | 33 | 26 |
| 4000                                 | 53                  | 42 | 30 | 25 | 20 |
| 8000                                 | 48                  | 36 | 24 | 19 | 13 |

910. Appendix A Tables of Long-term Background Ambient Noise

910. Table D. Nighttime long-term background ambient  $L_{\text{eq}}$  levels in decibels by land use categories and octave band level.

|                                      | Background Category |    |    |    |    |
|--------------------------------------|---------------------|----|----|----|----|
| Octave-Band Center<br>Frequency (Hz) | 1                   | 2  | 3  | 4  | 5  |
| 31                                   | 60                  | 55 | 50 | 44 | 38 |
| 63                                   | 61                  | 56 | 52 | 46 | 40 |
| 125                                  | 62                  | 56 | 52 | 46 | 40 |
| 250                                  | 60                  | 55 | 50 | 44 | 38 |
| 500                                  | 57                  | 51 | 46 | 40 | 34 |
| 1000                                 | 53                  | 46 | 40 | 34 | 28 |
| 2000                                 | 47                  | 40 | 33 | 28 | 21 |
| 4000                                 | 43                  | 34 | 25 | 20 | 15 |
| 8000                                 | 38                  | 28 | 19 | 14 | 8  |

### IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above opinion and order on March 17, 2005, by a vote of 5-0.

Dorothy M. Gunn, Clerk

Illinois Pollution Control Board