ILLINOIS POLLUTION CONTROL BOARD January 19, 2006

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 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 (2004)) 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 The instant proposal revises outdated numerical sound emission standards for property line noise sources found at 35 Ill.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. The Board today proposes for second notice the amendments.

BACKGROUND

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 and the Board held two hearings before Hearing Officer William F. Murphy. The first hearing 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 this decision, the Board withdrew the first notice (*See* 28 III. Reg. 7341, 7342 (May 21, 2004)).

The Board held two 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 six additional 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).

On March 17, 2005, the Board proceeded to a second first notice with this rulemaking. That first notice was published in the *Illinois Register* on April 15, 2005 (29 Ill. Reg. 5196). The Board held an additional hearing on September 1, 2005 (Tr. 5) and at that hearing Mr. Henriksen again testified along with Mr. Willard Pierce of Evenson Explosives, LLC on behalf of IAAP. Also Mr. Jim Hafliger of the IDNR testified. The public comment period closed on October 17, 2005, and the Board received six additional comments during the 2005 first-notice period. Those comments are:

PC 14	Joseph R. Angleton, Office Director, Office of Mines and Minerals, Illinois Department of Natural
	Resources
	Resources
PC 15	John Henriksen, Executive Director, Illinois
	Association of Aggregate Producers
PC 16	Dr. Paul Schomer, Schomer and Associates, Inc.
PC 17	Therese M. Dorigan, Bradburne, Briller & Johnson,
	LLC
PC 18	Village of Bridgeview
PC 19	Dr. Paul Schomer, on behalf of Village of
	Bridgeview

COMMENTS AND TESTIMONY

The Board received six comments along with testimony at the September 1, 2005 hearing regarding the Board's 2005 first-notice proposal. The following paragraphs will summarize the comments and testimony received by the Board.

Testimony

At the September 1, 2005 hearing, Mr. John Henriksen again testified along with Mr. Willard Pierce of Evenson Explosives, LLC on behalf of IAAP. Also Mr. Jim Hafliger of the Illinois Department of Natural Resources (IDNR), Office of Mines and Minerals testified.

Mr. John Henriksen

Mr. Henriksen manages IAAP, which is a trade association representing companies that produce aggregates (*i.e.* crushed sand, stone, and gravel). Tr.5 at 6-7. The companies have 113 members that operate in 80 Illinois counties and produce 111 million tons of materials. Tr.5 at 7. The aggregate industry has been regulated for blasting by IDNR since 1995 pursuant to Section 6.5 of the Surface-Mined Land Conservation and Reclamation Act (225 ILCS 715/6.5 (2004)). *Id.* IDNR's Office of Mines and Minerals has promulgated a set of regulations that regulate blasting at coal mining and aggregate mining sites in Illinois pursuant to Section 3.13 of the Surface Coal Mining Land Conservation and Reclamation Act (225 ILCS 715/3.13 (2004)) (*See* 62 III. Adm. Code 300, 1816). Tr.5 at 7.

Mr. Henriksen testifies that IDNR's Office of Mines and Minerals has promulgated a comprehensive set of regulations that subjects explosives blasting at coal mining and aggregate mining operations to air blast or ground vibration monitoring, or both, as necessary to prevent property damage and protect public safety. Tr.5 at 7-8. Additionally, IDNR enforces the regulations using highly trained, technologically proficient inspectors and state of the art equipment. *Id*.

Mr. Henriksen states that the Board is seeking to maintain a duplicative and overlapping regulatory program for coal mining and aggregate producers in Illinois. Tr.5 at 8. Mr. Henriksen argues that Section 25 of the Act provides that the Board "may adopt" regulations limiting noise emissions; however, the Board is not required to adopts such limitations. Tr.5 at 9-10. Mr. Henriksen asserts that the Board has elected not to regulate other sources of noise and can do so here as well. *Id.* Mr. Henriksen acknowledges that the Board has the authority to decide which activities should be regulated. Tr.5 at 10. Mr. Henriksen contends, however, that regulation of sound generated by blasting operations at aggregate or coal mines, which are already highly regulated by a sister agency, is unreasonable. Tr.5 at 10-11. Mr. Henriksen suggests that Part 901 not apply to explosive operations at mines. Tr.5 at 11-12.

In response to questions from the Board, Mr. Henriksen states that only the sound produced from blasting should be exempted from the Board's rules. Tr.5 at 35. Mr. Henriksen states that the Board should regulate steady noises that are a function of mining operations such as sounds generated from crushing equipment and backup alarms on equipment. *Id.* However, pursuant to Section 25 of the Act (415 ILCS 5/25 2004), Mr. Henriksen believes the Board should defer to IDNR's regulations on blasting at mining operations. *Id.*

Mr. Henriksen recommends that if the Board decides to continue to regulate the noise emissions from blasting at mining operations, the Board should adopt a regulatory program in harmony with IDNR's program. Tr.5 at 13. In order for the Board's rules to be consistent with IDNR's program, Mr. Henriksen suggests language changes such as limiting blasting from sunrise to sunset and shifting the regulatory focus from the property line to protected structures.

Mr. Jim Hafliger

Mr. Hafliger, whose title is Chief Division Technical Explosive Specialist in the Office of Mines and Minerals at IDNR, testified to provide the Board with an overview of IDNR's program and responsibilities related to blasting at coal mines and aggregate mines in Illinois. Tr.5 at 17. Mr. Hafliger attempts to point to areas of duplication between the Board's regulations and IDNR's program. *Id.* IDNR's program is staffed by 12 individuals in three offices throughout the state. Tr.5 at 17-18. Eight of the staff members are full time inspectors regulating the use of explosives in Illinois. Tr.5 at 18. Part of IDNR's statutorily mandated duties include regulating the use, handling and storage of explosives at the 172 active surface mining operations in Illinois. *Id.* IDNR's inspectors are in the field on a daily basis. These inspectors use 35 seismographs that register and record (for analysis by IDNR's experts) the traces reflected as a result of air blast or air overpressure and ground vibrations at the mining operations. *Id.*

IDNR's program has been in place for many years and started with regulation of explosive use in the 1930s. Tr.5 at 18. In the 1980s, IDNR began regulating coal blasting operations and in the 1990s regulating blasting operations at the surface aggregate operations. Tr.5 at 18-19. The field inspectors are trained to use the seismographs and to analyze the data. Tr.5 at 19. IDNR regularly monitors the sites and takes a proactive stance to make sure the operators are fulfilling their statutory obligations. Tr.5 at 20. IDNR has a comprehensive training program for people who undertake blasting in Illinois and recently Illinois was recognized for using an estimated 500 million pounds of explosives over a five-year period without a reported injury. Tr.5 at 20-21.

IDNR's program is enforced using a hearing process within IDNR and can include fines or even suspension or revocation of actual blasting operations. Tr.5 at 41. The program includes requirements for recordkeeping for each blast that incorporates every minor detail of the blast. Tr.5 at 41-42. Mr. Hafliger testifies that there are 17 different criterion included on the blasting records which must be available for inspection by IDNR's staff. Tr.5 at 42-43. Furthermore, both the mining company and the actual person performing the blasting are subject to sanctions for violation of IDNR's rules. Tr.5 at 43-44. Mr. Hafliger also notes that IDNR has an 800 number to be used for any complaints relating to blasting and that number has received about 100 complaints this year. Tr.5 at 44, 46.

Mr. Willard Pierce

Mr. Pierce is general manager of Evenson Explosives, which provides blasting services in four states with a majority of that in Illinois. Tr. 5 at 23. Mr. Pierce also worked for IDNR and helped establish and implement the blasting regulatory program at IDNR. *Id.* Mr. Pierce wishes to ensure that the regulatory requirements are consistent and that the requirements can be implemented. Tr.5 at 24. Mr. Pierce testifies that based on the regulations, blasters in Illinois

need two years hand on experience, as well as class room training and examination before receiving a license. Tr.5 at 24.

Mr. Pierce expresses concern over the inconsistency in the C-weighted numbers between those in Section 901.109 and IDNR's rules. Tr.5 at 25-26. Mr. Pierce also suggests that there should only be one standard and that standard should not deviate depending on the time of day or the number of times a blast occurs during the day. Tr.5 at 26.

Mr. Pierce also testifies that an air blast is a very specific type of sound and is a very low frequency. Tr.5 at 26. Mr. Pierce states that you do not actually "hear" an air blast but rather the effects of the air blast. *Id*. For example, Mr. Pierce states that you may hear surface delays or venting and you might feel the blast in your chest. *Id*.

Mr. Pierce indicates that about 12 years ago the International Society of Explosive Engineers worked with manufacturers of monitoring equipment to develop standards for monitoring air blasts from blasting. Tr.5 at 27. The standard was published in 1999 and uses the seismograph for measuring air blast because the seismograph can measure ground vibration and air blast. Tr.5 at 27-28. Mr. Pierce sums up his position by stating that the industry has a standard for air blast, and a standard for monitoring which has been in place for a number of years. Tr.5 at 29-30. Further, the standard is based on science and is protective of structures. Tr.5 at 30.

Mr. Pierce notes that air blast is a short-term transient noise, that lasts about three seconds. Tr.5 at 28. Thus, where the Board's propose rule suggests shutting off monitoring equipment for transient noise, the rule would seem to allow shutting down monitoring equipment for air blasts. *Id.* Mr. Pierce recommends that if the Board chooses to adopt a rule requiring monitoring of air blasting, that the Board require the use of a blasting seismograph for monitoring. Tr.5 at 29.

Mr. Pierce summarizes his testimony by stating that he has five recommendations. The first is that the C-weighted and flat response microphones have the same number. Tr.5 at 30. Second, Mr. Pierce recommends that the limit for air blasts apply at a structure, not the property line. *Id.* Third, Mr. Pierce recommends limiting blasting from sunrise to sunset, except in emergency situations. Tr.5 at 31. Fourth, Mr. Pierce does not believe the limits should be lowered based on the time of day. *Id.* And fifth, Mr. Pierce urges the Board to require the use of monitoring procedures and equipment appropriate to blasting. *Id.*

Public Comments

As indicated by the list above the Board received six comments including two from Dr. Paul Schomer including one on behalf of the Village of Bridgeview. The Board will group the comments by the author of the comment.

Office of Mines and Minerals, IDNR

IDNR regulates blasting operations at all surface aggregate and coal mines in Illinois. PC 14 at 1. IDNR's comprehensive regulations help prevent personal injury and property damage though the use of the conservative limits of one inch per second ground vibration and 133dB maximum air over pressure. *Id.* IDNR comments that these standards are nationally recognized and accepted industry practice. *Id.* IDNR determines regulatory compliance by routinely inspecting and monitoring blasting at all of the State's 172 active aggregate and coal blasting sites. *Id.* IDNR's staff of 13 people have over 100 years of combined explosives related experience and field inspectors trained in the technical elements of seismology regularly monitor blasting using state-of-the-art seismographs. *Id.*

IDNR specifically lists several points where the Board's proposal is inconsistent or deviates from IDNR's standards and IDNR recommends changes for consistency. First, IDNR notes that the amendments to Section 901.109(a) result in limits that are inconsistent with and less stringent than the IDNR limits. PC 14 at 1. IDNR also suggests that the limits remain constant from sunrise to sunset and not be amended based on the time of day. PC 14 at 2. IDNR recommends that the regulatory limits apply to the nearest protected structure rather than the property line. *Id.* IDNR also notes that the monitoring methods in Part 910 are not conducive for use in monitoring blasting and seismographs are specifically designed for monitoring blasting. *Id.*

IDNR states that the proposed rules are trying to fit air over pressure within the scope of intrusive noise and sound regulations when in fact the two are separate issues. PC 14 at 2. IDNR suggests that the surface aggregate and coal mine blasting provisions in the Board's rules be deferred to IDNR for regulation. *Id*.

IAAP

IAAP's public comment echoes the testimony of Mr. Henriksen in suggesting that the Board can and should defer to IDNR for the regulation of blasting at aggregate and coal mining operations. PC 15. IAAP points out that IDNR has regulated blasting operations at aggregate mines since 1995 and surface coal mines since 1982. *Id.* IAAP suggests that if the Board does decide to regulate blasting from mine operations, then the rules should be amended to ensure consistency between the Board and IDNR's regulations. *Id.*

Ms. Therese M. Dorigan

Ms. Dorigan filed a comment on behalf of Kropp Forge. PC 17. Ms. Dorigan notes that Kropp Forge is not seeking any site-specific relief in this proceeding, but wishes to preserve any right to seek site-specific relief from the Board at a future date. *Id*.

Dr. Paul Schomer and Village of Bridgeview

Dr. Schomer and Bridgeview reiterate the positions taken by Bridgeview at first notice concerning both the sound monitoring personnel qualifications and sound measurement procedures for establishing nuisance noise violation. PC 16, 18, and 19. Bridgeview also argues that bad science and misleading evidence should not be admissible in nuisance cases any more

than in numeric violation cases and challenges the use of noise measurements in nuisance noise enforcement proceedings. PC 18 at 1. In addition, Dr. Schomer raises concerns about the efficacy of the Board's rules. PC 19 at 2. The following paragraphs will summarize the comments.

Sound Monitoring Personnel Qualifications. Dr. Schomer comments that the lay person taking sound measurements can make errors when taking those measurements. PC 16 at 1. According to Dr. Schomer those errors include:

- 1. A lay person does not understand or necessarily hear properly background noise;
- 2. A lay person does not understand the role that wind induced noise makes on measurements;
- 3. A lay person does not understand the role that reflecting surfaces have on noise measurements. PC 16 at 2-3.

The "implications" of errors in measurement in Dr. Schomer's opinion is that the evidence of noise emissions measured by a lay person is inherently unreliable. PC 16 at 3.

Dr. Schomer argues that the Board has a viable option in terms of identifying qualified noise professionals. PC 16 at 5. Dr. Schomer urges the Board to require that measurements of noise emissions be supervised by an individual who is a "Member, Board Certified, of the Institute of Noise Control Engineering of the USA" (Institute). *Id.* Dr. Schomer states that the Institute is a non-profit technical society and certification requires education, several years experience, passing a rigorous 8-hour exam, and periodic professional activities to maintain certification. *Id.*

Dr. Schomer notes that as a lessor option, the Board could require that a member of the Institute, who is also a full member of the Acoustical Society of America, supervise noise emission measurements. PC 16 at 6. Dr. Schomer opines that with such a requirement the individual supervising the measurements "has some working knowledge of the mathematics of acoustics and of acoustical measurement." *Id.*

In Bridgeview's final comment, Dr. Schomer states that there is one way to correctly perform measurements, but a multitude of ways to mess up measurements. PC 19 at 1. Dr. Schomer argues that ANSI procedures must be followed using ANSI approved methods and instrumentation. *Id.* Dr. Schomer opines that many measurement devices sold at stores are worthless and best used for indoor measurements. *Id.*

Sound Measurement Procedures for Establishing Nuisance Noise Violation. Dr. Schomer states that standards exist so that within a reasonable degree of scientific certainty, two people can perform the same measurements under identical conditions and get the similar results. PC 16 at 4. Dr. Schomer asserts that unless standards are followed, the Board has no valid scientific method by which to assess the accuracy of data submitted to the Board. PC 16 at 4-5.

Dr. Schomer opines that the Board should use this rulemaking to make the standards for accurate measurements clear for both numeric and nuisance cases. PC 16 at 5.

Efficacy of the Rules. Dr. Schomer argues that allowing a lay person to make hand held A-weighted measurements does a disservice to the rules and to the noise receiver. PC 16 at 3. Dr. Schomer states that there is a trade-off between the complexity of the rules and the efficacy of the regulations. *Id.* Dr. Schomer notes that the Illinois rules are more complex than in many states, but as a result, Illinois' rules are more useful and protective. *Id.* Dr. Schomer asserts that because measurements made with simple, hand-held A-weighted instruments fail to address the spectrum of octaves covered under Illinois regulations, the measurements give a misleading picture of the noise emissions. PC 16 at 4. Dr. Schomer opines that to the extent the Board allows such evidence to be admitted in a nuisance noise case, the entire decision making process may be tainted by misleading information. *Id.*

Dr. Schomer, in his comment filed for Bridgeview, asserts that poor instruments may not detect many valid nuisance noise instances. PC 19 at 2. The instruments that do not measure individual octave bands may result in missing noise at a low frequency, according to Dr. Schomer. *Id.* Dr. Schomer argues that the octave band nature of the Board's rules is a positive factor and should not be "squandered" by substituting A-weighted measurements of questionable validity. *Id.*

<u>Nuisance Noise Cases.</u> Bridgeview argues the Board should take the opportunity in these rules to establish that in a nuisance complaint valid noise measurements must be used. PC 18 at 1. Bridgeview states that if noise measurements are taken in a nuisance case, the measurements should be taken as directed in Part 910. *Id.* Bridgeview maintains that to do otherwise is misleading to the complainant, prejudicial to the Board's decisions, and fundamentally unfair and costly to respondents. *Id.*

Bridgeview argues that admitting noise emissions measurements taken by a lay person other than pursuant to the requirements of Part 910 is contrary to the Board's responsibility for admitting scientific evidence based on <u>Daubert v. Merrell Dow Pharmaceuticals, Inc.</u>, 501 U.S. 579 (1993). PC 18 at 2. Bridgeview asserts that the Board recognizes the legal principal articulated in <u>Daubert</u> but retreats froM the sound science approach in nuisance cases. *Id*. Bridgeview opines that allowing "quick and dirty" sound measurements to be used in nuisance cases, the Board is encouraging frivolous lawsuits. *Id*. Bridgeview further argues that the Board appears to be shifting the burden of proof by requiring the respondent to expose problems with the measurements. PC 18 at 3.

DISCUSSION

During the first-notice period, the comments and testimony received by the Board reiterated issues raised prior to the Board proceeding to first notice in March 2005. The issues are: (1) whether blasting operations by aggregate producers and surface coal mines should be governed by rules adopted by the Board or should the Board defer to IDNR's regulations; and (2) whether the Board should require that noise measurements taken for presentation in a nuisance

noise enforcement case should be taken pursuant to 35 Ill. Adm. Code 910. The Board will address these issues below.

Applicability of Noise Rules to Aggregate Producers and Surface Coal Mines

At first notice, the Board did make changes to the rule in response to IAAP's comments. After consideration of the testimony and comments from IAAP and IDNR during the first-notice comment period, the Board is convinced that additional changes to the rule are warranted.

The testimony of IAAP and IDNR clearly demonstrates that IDNR has an extensive regulatory program in place that regulates the noise from blasting at facilities operated by aggregate producers and surface coal mines. Further, IDNR has an active staff that regularly oversees blasting and monitoring of the blasting at sites in Illinois. IDNR also has stringent enforcement tools for any violation of the regulations when blasting. Therefore, the Board finds that the Board can appropriately defer the regulation of noise emissions from blasting at aggregate and surface coal mines to IDNR. The Board will make changes to the rule under Sections 901.107 and 901.109 to reflect that deference.

The Board notes that IAAP's testimony indicates that IAAP only asks the Board to defer to IDNR for blasting at the aggregate producers sites in Illinois. All other operations, such as back up beepers, ingress and egress, and daily production noise emission should be subject to the Board rules according to IAAP. In light of this, the Board limits the scope of the proposed exemption to only to impulsive sound produced by explosive blasting activities, which are regulated by IDNR in accordance with Section 6.5 and Section 3.13 of the Surface Coal Mining Land Conservation and Reclamation Act (225 ILCS 715/6.5 and 3.13 (2004)).

Applicability of Part 910 to Nuisance Noise Enforcement Cases

The Board has long held in that noise measurements may be used to substantiate or refute a nuisance noise claim. *See* <u>Discovery South Group v. PCB</u>, 275 Ill. App. 3d 547, 549, 656 N.E.2d 51, 59 (1st Dist. 1995); <u>Charter Hall Home Owners Association v. Overland</u> <u>Transportation System</u> PCB 98-81 (Oct. 1, 1998); <u>Pawlowski v. Benchwarmers Pub</u>, PCB 99-82 (Apr. 6, 2000); <u>Gladys Knox and David Knox v. Turris Coal Company and AEI Resources, Inc.</u>, PCB 00-140 (Jan. 9, 2003). In the Board's first-notice opinion and order, the Board stated:

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. <u>Proposed New and Updated Rules for Measurement and Numerical Sound</u> <u>Emissions Standards; Amendments to 35 Ill. Adm. Code 901 and 910</u>, R03-9, (Mar. 17, 2005).

The Board also discussed, at first notice, the request that noise measurements be supervised by an individual who is certified. The Board stated:

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. <u>Proposed New and Updated Rules for Measurement and Numerical Sound Emissions Standards; Amendments to 35 Ill. Adm. Code 901 and 910</u>, R03-9, (Mar. 17, 2005).

The Board has carefully reviewed the arguments and concerns expressed by Bridgeview and Dr. Schomer. However, the Board is unconvinced that a change to the rule is necessary. First, as to the suggestion that the Board require compliance with Part 910 for measurement of noise emissions in a nuisance noise enforcement, the Board does not believe that change is necessary. If a complainant complies with the requirements of Part 910 when alleging a violation, then such a violation would be of the numeric standards and not a nuisance violation. The Board has long heard testimony in nuisance noise enforcement cases concerning the use of noise measurements. The Board examines that testimony and the measurements in light of the entirety of the evidence and renders a decision as to whether the noise unreasonablY interferes with the enjoyment of life. *See e.g.*, <u>Zivoli v. Somebody's Bar and Restaurant</u>, PCB 90-200 (May 21, 1992). Therefore, the Board declines to make a change to the rule.

regarding the qualifications of individual supervising the measurement of emissions, the Board is not persuaded that requiring certification by the Institute is appropriate. The Board will continue to review the noise emission measurements on a case-by-case basis and make determination based on the evidence provided.

The Board finds that the extensive record in this proceeding supports proceeding to second notice with these noise regulations. The Board further finds that the rules are technically feasible and economically reasonable. Therefore the Board will proceed to second notice.

CONCLUSION

The Board today adopts for second notice regulations concerning measurement of and standards for noise emissions in Illinois. The Board defers regulation of blasting operations at aggregate and surface coal mines to IDNR, who has an extensive regulatory scheme in place. The Board declines to alter the Board's longstanding position on noise emission measurements in nuisance noise enforcement cases and to require measurements be supervised by a certified individual. The Board sends this proceeding to the Joint Committee on Administrative Review for second notice consideration.

<u>ORDER</u>

The Board directs the Clerk to cause the filing of the following with the Joint Committee on Administrative Review for second notice consideration.

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

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

Section

- 901.101 Classification of Land According to Use
- 901.102 Sound Emitted to Class A Land
- 901.103 Sound Emitted to Class B Land
- 901.104 Highly Impulsive Sound
- 901.105 Impact Forging Operations
- 901.106 Prominent Discrete Tones
- 901.107 Exceptions
- 901.108 Compliance Dates for Part 901
- 901.109 Highly 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 (Repealed)
- 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 <u>Company Franklin Park</u> Division 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	Land-Based Classification Standards Standard Land Use Coding
	System

AUTHORITY: Implementing Section 25 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/25 and 27].

SOURCE: Originally filed as Part 2 of Chapter 8: Noise Pollution, effective August 10, 1973; amended at 2 III. Reg. 27, p. 223, effective June 26, 1978; amended at 5 III. Reg. 6371, effective June 1, 1981; amended at 5 III. Reg. 8533, effective August 10, 1981; amended at 6 III. Reg. 10960, effective September 1, 1982; codified at 7 III. Reg. 13646; amended at 7 III. Reg. 14519, effective October 17, 1983; amended in R83-35 at 8 III. Reg. 18893, effective September 25, 1984; amended in R83-33, 26, 29, 30 and R83-34 at 9 III. Reg. 1405, effective January 17, 1985; Section 901.105(f)(1), (2) and (3) recodified to Sections 901.110, 901.111 and 901.112 at 9 III. Reg. 7147; amended in R83-25, 31 and 32 at 9 III. Reg. 7149, effective May 7, 1985; amended in R83-7 at 11 III. Reg. 3136, effective January 28, 1987; amended in R04-11, at 28 III. Reg. 11910, effective July 30, 2004; amended in R03-9 at 30 III. Reg._____, effective______.

Section 901.101 Classification of Land According to Use

- <u>a)</u> 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, http://www.planning.org/LBCS. American Planning Association: Chicago, Illinois). 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> <u>1000 through 1340, 2410 through 2455, 5200 through 5230, 5500, 6100 through</u> <u>6145, 6222, 6510 through 6530, 6568 through 6600.</u><u>SLUCM Codes 110 through</u> <u>190 inclusive, 651, 674, 681 through 683 inclusive, 691, 711, 762, 7121, 7122,</u> <u>7123 and 921</u>.
- <u>c)</u> b) Class B land <u>includes shall include</u> all land used as specified by <u>LBCS Codes</u> 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 <u>through 7380.</u> 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.
- <u>d)</u> c) Class C land <u>includes shall include</u> all land used as specified by <u>LBCS Codes</u> <u>3100 through 3440, 4120 through 4180, 4210 through 4212, 4300 through 4347,</u> <u>7400 through 7450, 8000 through 8500, and 9100 through 9520.</u> <u>SLUCM Codes</u> <u>211 through 299 inclusive, 311 through 396 inclusive, 399, 411 except 4111, 412</u> <u>except 4121, 421, 422, 429, 441, 449, 460, 481 through 499 inclusive, 7223 and</u> <u>7311 used for automobile and motorcycle racing, and 811 through 890 inclusive.</u>
- <u>e)</u> d) A parcel or tract of land used as specified by <u>LBCS SLUCM</u> Code <u>9100, 9400, or</u> <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</u> shall retain such B or C classification until the municipal government removes the classification adopted by it.

(Source: Amended at 30 Ill. Reg. _____, effective _____)

Section 901.102 Sound Emitted to Class A Land

a) Except as elsewhere <u>provided</u> in this Part provided, 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	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	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 provided, 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 3	30 Ill. Reg	, effective)

Section 901.103 Sound Emitted to Class B Land

Except as <u>provided</u> elsewhere in this Part provided, 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 Frequency (Hertz)	Allowable Octave Band Sound Pressure Levels (dB) of Sound Emitted to any Receiving Class B Land from		
	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 3	30 Ill. Reg	, effective)

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

Except as <u>provided</u> elsewhere in this Part provided, no person shall cause or allow the emission of <u>highly-</u>impulsive 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> <u>accordance with the procedure of 35 Ill. Adm. Code 900.103</u> 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 Land on wh Property-Li Noise-Source Located	iich ine e: is	-	hted Sound Levels in I Emitted to Receiving (
Located		Class B Land	Class A Land Daytime	Nighttime
Class A Land Class B Land Class C Land		50 - 47 57 54 61 58	50- 47 50- 47 56 53	$\begin{array}{r} 45 \\ 45 \\ 45 \\ 46 \\ 43 \end{array}$
(Source: Amer	ended at	30 Ill. Reg	, effective)
Section 901.10)5	Impact Forging Opera	tions	
a)	For put	rposes of this <u>Section</u> , 1	rule only the following	are applicable:
	1)	Daytime hours <u>means</u> 6:00 a.m. and 11:00 p.	•	ous 16-hour period between
	2)	-	<u>s shall mean</u> those 8 ho ot part of the 16 continu	ours between 10:00 p.m. and aous daytime hours.
		The reference time for hour.	L_{eq} , as defined in 35 I	II. Adm. Code 900.101 is one
	4)	1 0 0	• • •	perty-line-noise-source hich construction began after
	5)		ng Operation is that pro orging operations whic	operty-line-noise-source h are in existence on
	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.			
F	Allowable <u>Highly-</u> Impulsive Sound Levels (<u>L_{eq}) in Decibels</u> Emitted To Class A or B Land from New Impact Forging Operation			Decibels Emitted

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 propertyline, unless such forging operation is granted a permanent site specific allowable operational level pursuant to <u>subsection subparagraph</u> (d).

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

Class B Land	Class A	A Land
64.5 Leq	Daytime 58.5 Leq	Nighttime 53.5 Leq

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

- An existing impact forging operation which does not comply with <u>subsection</u> <u>subparagraph</u> (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.

- E) The number of residences exposed to sound levels in excess of those permitted by <u>subsection</u> 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
- I) 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 30 Ill. Reg. _____, effective _____)

Section 901.106 Prominent Discrete 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 onethird 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 <u>numeric standard table</u> 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 30 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</u> SLUCM Codes <u>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 be 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 propertyline-noise-sources during nighttime hours, provided, however, that sound emitted from such existing property-line-noise-sources <u>are shall be</u> 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</u> SLUCM Codes 7223 and 7311 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 <u>subsection subparagraph do shall</u> not apply to any automobile and motorcycle race, contest, rally, time trial, test run or similar operation of any selfpropelled 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 <u>other than the land</u> used as specified by <u>LBCS Codes 8300 and 8500</u> SLUCN codes 852 and 854, but such operations shall be governed by Section 901.109.
- i) Part 901 shall not apply to impulsive sound produced by explosive blasting activities, which are:
 - 1) Conducted on any Class C land used as specified by LBCS Codes 8300 and 8500; and
 - 2) Regulated by the Department of Natural Resources in accordance with Section 6.5 and Section 3.13 of the Surface Coal Mining Land Conservation and Reclamation Act (225 ILCS 715/6.5 and 3.13 (2004)).
- <u>ji</u>) Sections 901.102 through 901.106 inclusive, <u>do</u> shall-not apply to sound emitted from snowmobiles.

(Source: Amended at 30 Ill. Reg. _____, effective _____)

Section 901.108 Compliance Dates for Part 901

a) Except as provided in <u>subsections</u> 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 <u>must shall</u> comply with the standards and limitations of this Part on and after February 10, 1975.
- d) Except as provided in <u>subsections</u> <u>subparagraphs</u> (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 shall will</u> have until August 10, 1976 to bring the sound from railroad car coupling in compliance with Section 901.104.
- <u>g)</u>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)</u>;) Every owner or operator of Class C land now or hereafter used as specified by <u>LBCS Code 3310</u> SLUCM Code 291 <u>must shall</u> comply with the standards and limitations of this Part on August 10, 1975.
- i);) Every owner or operator of Class C land now or hereafter used as specified by LBCS Code 5130 and 5140 SLUCM Code 7223 and 7311 when used for automobile and motorcycle racing <u>shall-must</u> comply with the standards and limitations of this Part on February 10, 1976.

(Source: Amended at 30 Ill. Reg. _____, effective _____)

Section 901.109 <u>Highly-Impulsive Sound From Explosive Blasting</u>

a) During the daytime hours <u>that cover the period</u>, after sunrise and before sunset, no person shall cause or allow any explosive blasting conducted on any Class C land

other than land used as specified by <u>LBCS Codes 8300 and 85200</u> <u>SLUCM Codes</u> 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 <u>Exposure</u> Levels in Decibels of Explosive Blasting Sounds Emitted to Receiving Class A or B Land from Any Class C Land <u>other than Land</u> Used as Specified by LBCS Code 8300 or 8500 <u>SLUCM Code 852 or 854</u>

- Receiving Class A Land 109–107 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)		
<u> </u>	135	140
$\leq 2.0 \text{ but} > 0.1$	13 <u>3</u> 2	<u>133</u> 7
\leq 6.0 but greater than 2.0	130	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.

c) During the period defined by both the beginning of the nighttime hours (10:00 pm) or sunset, whichever occurs earlier and the ending of the nighttime hours (7:00 am) or, after sunset and before sunrise, whichever occurs later, the allowable sound level limits in <u>subsections</u> subparagraphs (a) and (b) <u>must shall</u> be reduced by 10 <u>decibels</u> 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 <u>other than land</u> used as specified by <u>LBCS Code 8300 or 8500</u> <u>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.

(Source: Amended at 30 Ill. Reg. _____, effective _____)

Section 901.110 Amforge Operational Level

Amforge Division 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 Sound</u> 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: Amended at 30 Ill. Reg. _____, effective _____)

Section 901.111 Modern Drop Forge Operational Level

Modern Drop Forge Company located at 139th Street and Western Avenue in Blue Island, Illinois <u>must shall</u>:

- 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 30 Ill. Reg. _____, effective _____)

Section 901.113 Wagner Casting Site-Specific Operational Level (Repealed)

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 30 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.</u> <u>Belmont Avenue, Franklin Park</u> 1501 South 55th Court, 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 30 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 30 Ill. Reg. _____, effective _____)

Section 901.APPENDIX B Land-Based Classification Standards and Corresponding 35 Ill. Adm. Code 901 Land Classes Standard Land Use Coding System

LB	SCS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>

LE	BCS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
SUC	<u>1000</u> 1100	Residence or accommodation functions Private household	<u>A</u>
functio	<u>1200</u> <u>1210</u>	Housing services for the elderly Retirement housing services	
odation	<u>1220</u> <u>1230</u>	Congregate living services Assisted-living services	
ccomm	$\frac{1240}{1250}$	<u>Life care or continuing care services</u> <u>Skilled-nursing services</u> Hotels, motels, or other accommodation services	
Residence or accommodation functions	<u>1300</u> <u>1310</u> <u>1320</u> <u>1330</u>	<u>Hotels, motels, or other accommodation services</u> <u>Bed and breakfast inn</u> <u>Rooming and boarding</u> <u>Hotel, motel, or tourist court</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>
	$\frac{2110}{2111}$	Automobile sales or service establishment	
	$\frac{2111}{2112}$	<u>Car dealer</u>	I
	<u>2112</u> 2112	Bus, truck, mobile homes, or large vehicles	
	<u>2113</u> 2114	Bicycle, motorcycle, ATV, etc.	
ices	$\frac{2114}{2115}$	Boat or marine craft dealer	
servi	<u>2115</u> 2116	<u>Parts, accessories, or tires</u> Gasoline service	
or s	$\frac{2110}{2120}$	Heavy consumer goods sales or service	
les o	$\frac{2120}{2121}$	Furniture or home furnishings	
lsa	$\frac{2121}{2122}$	Hardware, home centers, etc.	
General sales	$\frac{2122}{2123}$	Lawn and garden supplies	
Gen	$\frac{2123}{2124}$	Department store, warehouse club or superstore	
	$\frac{2121}{2125}$	Electronics and Appliances	
	<u>2126</u>	Lumber yard and building materials	
	<u>2123</u>	Heating and plumbing equipment	
	<u>2130</u>	Durable consumer goods sales and service	
	$\frac{2130}{2131}$	<u>Computer and software</u>	
	2132	Camera and photographic supplies	

LB	BCS		
		Description	<u>35 IAC</u>
<u>Main</u> Category	<u>Function</u> <u>Code</u>		<u>901 Land</u> <u>Class</u>
Cat	Eun		
	0100		
	<u>2133</u>	<u>Clothing, jewelry, luggage, shoes, etc.</u>	
	<u>2134</u> 2125	Sporting goods, toy and hobby, and musical instruments	
	<u>2135</u>	Books, magazines, music, stationery	
	$\frac{2140}{2141}$	Consumer goods, other	
	$\frac{2141}{2142}$	<u>Florist</u>	
	<u>2142</u>	Art dealers, supplies, sales and service	
	<u>2143</u>	Tobacco or tobacconist establishment	
	$\frac{2144}{2145}$	Mail order or direct selling establishment	
	<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>2152</u>	Convenience store	
	<u>2153</u>	Specialty food store	
	<u>2154</u>	Fruit and vegetable store	
	<u>2155</u>	Beer, wine, and liquor store	
	<u>2160</u>	Health and personal care	
	<u>2161</u>	Pharmacy or drug store	
	<u>2162</u>	Cosmetic and beauty supplies	
	<u>2163</u>	Optical	
	2200	Finance and Insurance	
	<u>2210</u>	Bank, credit union, or savings institution	
	<u>2220</u>	Credit and finance establishment	
	2230	Investment banking, securities, and brokerages	
	<u>2240</u>	Insurance-related establishment	
	2250	Fund, trust, or other financial establishment	_
	2300	Real estate, and rental and leasing	
	<u>2310</u>	Real estate services	
	2320	Property management services	
	<u>2321</u>	Commercial property-related	
	2322	Rental housing-related	
	2330	Rental and leasing	
	2331	Cars	
	2332	Leasing trucks, trailers, RVs, etc.	
	2333	Recreational goods rental	

LB	SCS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>2334</u>	Leasing commercial, industrial machinery, and equipment	\downarrow
	<u>2335</u>	Consumer goods rental	
	<u>2336</u>	Intellectual property rental (video, music, software, etc.)	B
	2400	Business, professional, scientific, and technical services	
	$\frac{2410}{2411}$	Professional services	<u>A</u>
	$\frac{2411}{2412}$	Legal services	
	$\frac{2412}{2412}$	Accounting, tax, bookkeeping, payroll services	
	<u>2413</u>	Architectural, engineering, and related services	
	<u>2414</u>	Graphic, industrial, interior design services	
	<u>2415</u>	Consulting services (management, environmental, etc.)	
	<u>2416</u>	Research and development services (scientific, etc.)	
	<u>2417</u>	Advertising, media, and photography services	<u> </u>
	<u>2418</u>	Veterinary services	Ļ
	<u>2420</u>	Administrative services	
	<u>2421</u>	Office and administrative services	\perp
	<u>2422</u>	Facilities support services	
	<u>2423</u>	Employment agency	\perp
	<u>2424</u>	Business support services	\perp
	<u>2425</u>	Collection agency	\perp
	2430	Travel arrangement and reservation services	
	2440	Investigation and security services	
	2450	Services to buildings and dwellings	
	2451	Extermination and pest control	I Î
	2452	Janitorial	
	2453	Landscaping	\downarrow
	2454	Carpet and upholstery cleaning	<u> </u>
	2455	Packing, crating, and convention and trade show services	A
	2500	Food services	B
	2510	Full-service restaurant	-
	2520	Cafeteria or limited service restaurant	
	2530	Snack or nonalcoholic bar	
	2540	Bar or drinking place	
	2550	Mobile food services	
	2560	Caterer	
	2570	Food service contractor	Ì

LI	BCS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	Description	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>2580</u>	Vending machine operator	
	2600	Personal services	\perp
	2700	Pet and animal sales or service (except veterinary)	\downarrow
	2710	Pet or pet supply store	
	<u>2720</u>	Animal and pet services	<u>B</u>
	<u>3000</u>	Manufacturing and wholesale trade	
	3100	Food, textiles, and related products	<u>C</u>
	<u>3110</u>	Food and beverages	
	<u>3120</u>	Tobacco manufacturing establishment	
	<u>3130</u>	Textiles	
	<u>3140</u>	Leather and allied products	
	3200	Wood, paper, and printing products	
	<u>3210</u>	Wood products establishment	
e	<u>3220</u>	Paper and printing materials	\perp
rad	<u>3230</u>	Furniture and related products	\perp
esale t	3300	Chemicals, and metals, machinery, and electronics manufacturing	
hol	3310	Petroleum and coal products	
a b	3320	Chemicals, plastics, and rubber products	
an	3330	Nonmetallic mineral products	
ing	3340	Primary metal manufacturing	Ī
ctur	3350	Machinery manufacturing	
Manufacturing and wholesale trade	<u>3360</u>	Electrical equipment, appliance, and components manufacturing	
Z	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	<u>Signs</u>	<u>C</u>
	3500	Wholesale trade establishment	B
	3510	Durable goods	
	3520	Nondurable goods	\downarrow

LF	BCS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	3600	Warehouse and storage services	<u>B</u>
	4000	Transportation, communication, information, and utilities	
	4100	Transportation services	-
	4110	Air transportation	U
	<u>4111</u>	Air passenger transportation	
	<u>4112</u>	Air freight transportation	
	<u>4113</u>	Airport and support establishment	\downarrow
	<u>4114</u>	Aircraft and accessories	
	<u>4115</u>	Other air transportation (including scenic, balloon, etc.)	<u>U</u>
ties	<u>4120</u>	Rail transportation	<u>C</u>
Itili	<u>4121</u>	Rail passenger transportation	
n pr	<u>4122</u>	Rail freight transportation	
l, ar	<u>4123</u>	Rail transportation support establishment	
tion	<u>4130</u>	Road, ground passenger, and transit transportation	\perp
mat	<u>4131</u>	Local transit systems-mixed mode	
for	<u>4132</u>	Local transit systems-commuter rail	
communication, information, and utilities	<u>4133</u>	Local transit systems-bus, special needs, and other motor vehicles	
icat	<u>4134</u>	Interurban, charter bus, and other similar establishments	
unt	4135	School and employee bus transportation	
comn	<u>4136</u>	Special purpose transit transportation (including scenic, sightseeing, etc.)	
ion,	4137	Taxi and limousine service	
Transportation,	4138	Towing and other road and ground services	
IOd	4140	Truck and freight transportation services	
rans	4141	General freight trucking, local	
EI I	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	
	4152	Marine freight transportation	
	<u>4152</u> 4153	Marine port and harbor operations	
	<u>+155</u>	marine port and naroor operations	I _ I

LR	BCS		
		Description	<u>35 IAC</u>
<u>Main</u> Category	<u>Function</u> <u>Code</u>		901 Land
<u>Main</u> ategoi	<u>unctio</u> Code		<u>Class</u>
Ŭ	Ш		
	<u>4154</u>	Marine cargo handling and dry dock services	
	<u>4155</u>	Marine navigational and other services	\perp
	<u>4160</u>	Courier and messenger services	\downarrow
	<u>4170</u>	Postal services	
	<u>4180</u>	Pipeline transportation	<u>C</u>
	4200	Communications and information	
	<u>4210</u>	Publishing	<u>C</u>
	<u>4211</u>	Newspapers, books, periodicals, etc.	$\begin{array}{c} \underline{C} \\ \underline{C} \\ \underline{C} \\ \underline{C} \end{array}$
	<u>4212</u>	Software publisher	
	<u>4220</u>	Motion pictures and sound recording	<u>B</u>
	<u>4221</u>	Motion picture and video production, publishing, and	
	1000	distribution	1
	<u>4222</u>	Motion picture viewing and exhibition services	
	<u>4223</u>	Sound recording, production, publishing, and distribution	<u> </u>
	<u>4230</u>	Telecommunications and broadcasting	
	<u>4231</u>	Radio and television broadcasting	
	<u>4232</u>	Cable networks and distribution	\perp
	<u>4233</u>	Wireless telecommunications	
	<u>4234</u>	Telephone and other wired telecommunications	
	4240	Information services and data processing industries	\perp
	4241	Online information services	\downarrow
	4242	Libraries and archives	_
	4243	News syndicate	<u>B</u>
	<u>4300</u>	Utilities and utility services	<u>C</u>
	4310	Electric power	_
	4311	Hydroelectric	
	4312	Fossil	\perp
	<u>4313</u>	<u>Nuclear</u>	
	4314	Alternative energy sources	
	4320	Natural gas, petroleum, fuels, etc.	
	4330	Water, steam, air conditioning supply	
	4331	Drinking water	
	4332	<u>Irrigation and industrial water supply</u>	
	<u>4333</u>	Air conditioning and steam supply	
	<u>4335</u> 4340	Sewer, solid waste, and related services	
	+3+0	Server, some waste, and related services	

LI	BCS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	Description	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>4341</u>	Hazardous waste collection	
	<u>4342</u>	Hazardous waste treatment and disposal	\perp
	<u>4343</u>	Solid waste collection	$\overline{\perp}$
	4344	Solid waste combustor or incinerator	
	4345	Solid waste landfill	
	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	\perp
	<u>5140</u>	Promoter of performing arts, sports, and similar events	\downarrow
	<u>5150</u>	Agent for management services	
ion	<u>5160</u>	Independent artist, writer, or performer	<u>B</u>
reat	<u>5200</u>	Museums and other special purpose recreational institutions	<u>A</u>
reci	<u>5210</u>	Museum	
nd	<u>5220</u>	Historical or archeological institution	$\frac{\downarrow}{\underline{\mathbf{A}}}$
Arts, entertainment, and recreation	<u>5230</u>	Zoos, botanical gardens, arboreta, etc.	
nen	<u>5300</u>	Amusement, sports, or recreation establishment	<u>B</u>
inr	<u>5310</u>	Amusement or theme park establishment	
erte	<u>5320</u>	Games arcade establishment	1
ent	<u>5330</u>	Casino or gambling establishment	
rts,	<u>5340</u>	Miniature golf establishment	<u> </u>
Ā	<u>5350</u>	Skiing	
	<u>5360</u>	Marina or yachting club facility operators	\perp
	<u>5370</u>	Fitness, recreational sports, gym, or athletic club,	
	<u>5380</u>	Bowling, billiards, pool, etc.	\downarrow
	<u>5390</u>	Skating rinks, roller skates, etc.	
	<u>5400</u>	Camps, camping, and related establishments	<u>B</u>
	<u> </u>	Natural and other recreational parks	A
L II	<u>6000</u>	Education, public admin., health care, and other inst.	<u>.</u>
<u>Educa</u> <u>tion,</u> public	<u>6100</u>	Educational services	
	<u>6110</u>	Nursery and preschool	<u>A</u>

LB	BCS		
		Description	<u>35 IAC</u>
<u>Main</u> Category	<u>Function</u> <u>Code</u>		<u>901 Land</u>
ate	<u>C n</u>		<u>Class</u>
	ш		
	<u>6120</u>	Grade schools	
	<u>6121</u>	Elementary	
	<u>6122</u>	Middle	
	<u>6123</u>	Senior	
	<u>6124</u>	<u>Continuance</u>	
	<u>6125</u>	Alternate education services	
	<u>6126</u>	Adult education services	
	<u>6130</u>	Colleges and universities	
	<u>6140</u>	Technical, trade, and other specialty schools	
	<u>6141</u>	Beauty schools	
	6142	Business management	
	6143	Computer training	\downarrow
	6144	Driving education	_
	6145	Fine and performing arts education	A
	6146	Flight training	U
	6147	Sports and recreation education	B
	6200	Public administration	
	6210	Legislative and executive functions	B
	6220	Judicial functions	<u>B</u>
	6221	<u>Courts</u>	B
	6222	Correctional institutions	<u>A</u>
	<u>6300</u>	Other government functions	B
	<u>6310</u>	Military and national security	
	<u>6320</u>	Space research and technology	
	<u>6400</u>	Public Safety	
	<u>6410</u>	Fire and rescue	\downarrow
	6420	Police	
	<u>6430</u>	Emergency response	B
	<u>6500</u>	Health and human services	
	<u>6510</u>	Ambulatory or outpatient care services	<u>A</u>
	<u>6511</u>	Clinics	
	<u>6512</u>	Family planning and outpatient care centers	
	<u>6513</u>	Medical and diagnostic laboratories	
	<u>6514</u>	Blood and organ banks	$\overline{\downarrow}$
	6520	Nursing, supervision, and other rehabilitative services	

LB	BCS		
<u>Main</u> Category	<u>Function</u> <u>Code</u>	Description	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>6530</u>	<u>Hospital</u>	<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	
	<u>6564</u>	Emergency and relief services	\perp
	<u>6565</u>	Other family services	\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>
	6600	Religious institutions	<u>A</u>
	<u>6700</u>	Death care services	<u>B</u>
	<u>6710</u>	Funeral homes and services	
	<u>6720</u>	Cremation services and cemeteries	
	<u>6800</u>	Associations, nonprofit organizations, etc.	
	<u>6810</u>	Labor and political organizations	\perp
	<u>6820</u>	Business associations and professional membership	\downarrow
		organizations	
	<u>6830</u>	Civic, social, and fraternal organizations	<u>B</u>
	7000	Construction-related businesses	
	7100	Building, developing, and general contracting	<u>B</u>
	7110	Residential construction	
es	7120	Land development and subdivision	
less	<u>7130</u>	Industrial, commercial and institutional building construction	\perp
Isin	7200	Machinery related	\perp
d bi	7210	Building equipment and machinery installation contractors	\perp
atec	7220	Excavation contractor	\perp
-rel	7230	Water well drilling contractor	
ion-	7240	Wrecking and demolition establishment	
uct	7250	Structural steel erection contractor	
Construction-related businesses	7300	Special trade contractor	
Col	7310	Carpentry, floor, and tile contractor	
	7320	<u>Concrete contractor</u>	
	7330	<u>Electrical contractor</u>	
	<u>7340</u>	Glass and glazing contractor	
	7510	Clubs and Stability contractor	

LBCS			
<u>Main</u> Category	<u>Function</u> <u>Code</u>	Description	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>7350</u>	Masonry and drywall contractors	
	<u>7360</u>	Painting and wall covering	\downarrow
	7370	Plumbing, heating, and air-conditioning	
	<u>7380</u>	Roofing, siding, and sheet metal contractors	B
	<u>7400</u>	Heavy construction	<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>
<u>1</u> Its	8100	Oil and natural gas	_
and	8200	Metals (iron, copper, etc.)	
ng act shr	8300	Coal	\downarrow
<u>Mining and</u> <u>extraction</u> establishments	8400	Nonmetallic mining	_
est	8500	Quarrying and stone cutting establishment	<u>C</u>
	9000	Agriculture, forestry, fishing and hunting	
	<u>9100</u>	<u>Crop production</u>	<u>C</u>
20	9110	Grain and oilseed	
d hunting	<u>9111</u>	Wheat	
hu	<u>9112</u>	Corn	\perp
and	<u>9113</u>	Rice	
Agriculture, forestry, fishing an	<u>9114</u>	Soybean and oilseed	
ishi	<u>9115</u>	Dry pea and bean	
Y, fi	9120	Vegetable farming or growing services	
str	9130	Fruits and trees	
fore	9140	Greenhouse, nursery, and floriculture	
ſe, J	9141	Food crops grown under cover	
lltu	9142	Nursery and tree production	
ricu	<u>9143</u>	<u>Floriculture production</u>	
Agi	<u>9150</u>	<u>All other crops</u>	
	<u>9150</u>	Tobacco crop	
	<u>9151</u>	Cotton crop	
L	<u>7152</u>	<u>conton crop</u>	_

LB	BCS		
		Description	<u>35 IAC</u>
<u>Main</u> Category	<u>unctio</u> Code		901 Land Class
Cat	<u>Function</u> <u>Code</u>		
	· · ·	<u></u>	
	<u>9153</u>	Sugarcane crop	
	<u>9154</u>	Hay	
	<u>9155</u>	Peanut crop	
	<u>9200</u>	Support functions for agriculture	
	<u>9210</u>	Farm and farm labor management services	
	<u>9220</u>	Spraying, dusting, and other related services	
	<u>9230</u>	Crop harvesting and post harvest crop activities (including	<u> </u>
		drying, siloing, etc.)	
	<u>9240</u>	Cotton ginning, grist milling, etc.	
	<u>9300</u>	Animal production including slaughter	
	<u>9310</u>	Cattle ranch and crops	
	<u>9311</u>	Beef cattle ranch establishments	
	<u>9312</u>	Cattle feedlot establishment	
	<u>9320</u>	Dairy cattle and milk production	
	<u>9330</u>	Hog and pig farm	
	<u>9340</u>	Poultry and egg production and hatcheries	
	<u>9350</u>	Sheep and goat farming establishments	
	<u>9360</u>	Fish hatcheries, fisheries, and aquaculture	
	<u>9370</u>	All other animal production	
	<u>9371</u>	Apiculture (bees, wax, and related operations)	
	<u>9372</u>	Horse and equine production	
	<u>9373</u>	Fur-bearing animal production	
	<u>9380</u>	Support functions for animal production	
	<u>9400</u>	Forestry and Logging	
	<u>9410</u>	Logging	
	9420	Forest nurseries	
	9430	Support functions for forestry	
	<u>9500</u>	Fishing, hunting and trapping, game preserves	
	9510	Fishing	\downarrow
	9520	Hunting and trapping, game retreats, game and fishing	$\frac{1}{\underline{C}}$
		preserves	
	<u>9900</u>	Unclassifiable function	U
	<u>9910</u>	Not applicable to this dimension	
	<u>9990</u>	To be determined	\downarrow

LBCS			
<u>Main</u> Category	<u>Function</u> <u>Code</u>	<u>Description</u>	<u>35 IAC</u> <u>901 Land</u> <u>Class</u>
	<u>9999</u>	To be determined	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

	Category	Code	Category	Code	Category	Reference¹ C
-11	Household units.		Household units.		Household units. ²	
12	Group quarters.	121	Rooming and boarding houses.	1210	Rooming and boarding houses. ³	7021
		122	Membership lodgings.	1221	Fraternity and sorority houses.	⁴ Incl. 7041
				1229		<u>Incl. 7041</u>
		123	Residence halls or dormitories.	1231	Nurses' homes.	
				1232	College dormitories.	
				1239	Other residence halls or dormitories, <u>NEC.</u>	
		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.	
Reside	ntial hotels.	130	Residential hotels.	1300	Residential hotels. ⁶	Incl. 7011
- Mobile	home parks or courts.	140	Mobile home parks or courts.	1400	Mobile home parks or courts.	7031
	ent lodgings.	151	Hotels, tourist courts, and motels.	1510	Hotels, tourist courts, and motels.	7011

	159 Other transient lodgings, N	EC. 1590 Other transient lodgings, NEC.7
19 Other residential, NEC.	190 Other residential, NEC.	1900 Other residential, NEC.
FOOTNOTES		
- ⁺ The SIC codes are listed for pur those that have	poses of reference. They are the	² Code 1210 "Rooming and boarding houses" are
codes in the SIC system that most nea	rly correspond to the 4 digit	5 or more persons renting rooms, with or without board,
and use activity indicated. (See ch. I han 5	H, Sec. A3, "The Use of Stand	lated to the had or person in charge. Where there are less
and Industrial Classification Nomencl	ature.") A dash indicates that	roomers, the total quarters are considered as one
there is no corresponding SIC code.		and is coded 1100.
- ² Code 1100 "Household units"	pre defined as a house and apart	⁻⁴ "Incl. 7041" is an abbreviation which indicates that the
Code 1100 Household units	are defined as a nouse, and apart	4-digit
ment, or other group of rooms, or a sin	agle room that is intended for	land use activity category is only one of several
categories of establish-		
occupancy as separate living quarters.		ments that are included under SIC code 7041.
units" do not live and eat with other p		⁵ "NEC" is an abbreviation for "not elsewhere coded."
in a boarding house), and there is eithe	er (1) direct access from the	⁶ Code 1300
percent or outside or through a common hall, or-	(2) there is a kitchen or cooking	more of the available accommodations occupied by
permanent guests		
equipment for the exclusive use of the	occupants of the unit. The	(i.e., persons who reside more than 30 days). Hotels with
less than		
occupants may be a family, a group of	unrelated persons, or a person	75 percent are included under code 15, "Transient
lodgings."		
living alone. Mobile homes not in "M such estab-	lobile home parks or courts"	² Code 1590 "Other transient lodgings, NEC" includes
(code 14), but resting on a permanent percent or	type of foundation (e.g., a brick	lishments as the YMCA, YWCA, and YMHA when 50
or concrete block foundation) are incl- associated activities	uded as well as units that are	more of the floor area is devoted to lodging and
vacant or that are used on a seasonal to occupied by	asis. Farm homes are also in	and when less than 75 percent of the accommodations are
eluded under "household units" and sl	nould be identified separately	permanent guests. If 75 percent or more of the guests are
from the remainder of the farm which	is coded under "Agriculture,"	permanent, use code 1300. If 50 percent or more of the floor area is
devoted to		
code 81. (general)."		recreational activity, use code 7424, "Recreation centers
*"Land Class" refers to Rule 201 Class	sifications. "A" denotes a	
Class A Land, "B" denotes a Class B		
Class C Land, "U" denotes a Land un		
(Added by IEPA.)		

B 1

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

Code	Category	Code	Category	Code	Category	SIC Reference ¹	—La —Cla
21	Food and kindred prod ucts manufacturing.	<u>211</u>	Meat products manufacturing.	<u>2111</u> 2112	Meat packing manufacturing. Sausages and other prepared meat products manufacturing.	2011 2013	
				2113	Poultry and small game dressing and	<u></u>	
		<u>212 I</u>	Dairy products manufacturing.	<u>2121</u> 2122	Creamery butter manufacturing. Cheese, natural and processed.	<u>2021</u> 2022	

2123 Condensed and evaporated milk 2023 manufacturing. 2124 Ice cream and frozen desserts 2024 -manufacturing. 2125 Fluid milk processing. 2026 213 Canning and preserving of fruits, 2131 Canning and curing seafoods. 2031 vegetables, and seafoods. 2132 Canning specialty foods. 2032 2133 Canning fruits, vegetables, preserves, 2033 jams, and jellies. 2134 Drying and dehydrating fruits and 2034 vegetables. 2035 2135 Pickling fruits and vegetables; vege -table sauces and seasonings; salad dressings manufacturing. 2136 Fresh or frozen packaged fish and 2036 -seafoods. 2137 Frozen fruits, fruit juices, vegetables, 2037 -and specialities. 214 Grain mill products manufactur 2141 Flour and other grain mill products. 2041 2142 Preparing feeds for animals and fowls. 2042 ing. 2143 Cereal preparations. 2043 2144 Rice milling. 2044 2145 Blending and preparing flour. 2045 2046 2146 Wet corn milling. 215 Bakery products manufacturing. 2150 Bakery products manufacturing. -205 216 Sugar--manufacturing. 2160 Sugar--manufacturing. 206 217 Confectionery and related prod 2171 Candy and other confectionery prod 2071 ucts manufacturing. ucts manufacturing. 2172 Chocolate and cocoa products 2072 manufacturing. 2173 Chewing gum--manufacturing. 2073 2181 Malt liquors manufacturing. 218 Beverage manufacturing. 2082 2182 Malt manufacturing. 2083 2183 Wine, brandy, and brandy spirits 2084 -manufacturing. 2184 Distilling, rectifying, and blending 2085 liquors. 2086 2185 Bottling and canning soft drinks and carbonated waters. 2186 Flavor extracts and flavoring sirups 2087 manufacturing, NEC. 2191 Cottonseed oil milling. 2091 219 Other food preparations and kin 2192 Soybean oil milling. 2092 dred products manufacturing, NEC. 2193 Vegetable oil milling (except cotton 2093 -seed and soybean). 2194 Animal and marine fats and oils (in 2094 -cluding grease and tallow)--manufacturing. 2195 Roasting coffee and coffee products 2005 manufacturing. 2196 Shortening, table oils, margarine, 2096 and other edible fats and oils manufacturing.

				2197	Ice manufacturing	2097
				2198	Macaroni, spaghetti, vermicelli, and	2098
					noodles manufacturing.	
				2199	Other food preparations and kindred	2099
			D 2		products manufacturing, NEC.	
		N ((1) X 1) X 7 X N	B-2			
- A 51 AP	NDARD SYSTEM FOR IDE	NIIFII	LEVELS Continued	. v 111ES - -	- TWO-, THREE , AND FOUR-DIGIT	
a 1	<i>a</i>	<i>a</i> 1		<i>a</i> 1	2	SIC
Code	Category	Code	Category	Code	Category	<u>Reference</u> *
<u>22 Т</u>	extile mill products manu	221	Broad and narrow woven fabrics	2210	Broad and narrow woven fabrics and	<u>-221,222,2239</u>
	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).	
			goods.			
		224	-Floor coverings (rugs and carpets)	2240	Floor coverings (rugs and carpets)	227
		221	manufacturing.	2210	manufacturing.	227
			initiation in the second se			
		-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
				2294	Processing waste and recovering fibers	2294
				2295	Artificial leather and oil cloth manu	2295
					facturing and other impregnating and	
				2296	Tire cording and fabric manufacturing.	2296
				2297	Wool scouring, worsted combing, and	2297
					towing to top.	
				2299	Other textile goods manufacturing,	2299
					— NEC.	
23 A	pparel and other finished	231	Men's, youths' and boys' suits,	2310	Men's, youth's, and boys' suits, coats,	231
	products made from fab	201	coats, and overcoats manufac	2010	and overcoats manufacturing.	201
	rics, leather, and similar		turing.		and of ereodals manufacturing.	
	aterials manufacturing.		turing.			
		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' sirls'	2330	Women's, misses', juniors', girls',	233 and
		233	Women's, misses', juniors', girls', children's, and infants' outerwear	2330	- women's, misses, jumors, girls, - children's, and infants' outerwear	<u></u>
			Childran & and infante Alitarita			

	234	Women's, misses', children's, and infants' undergarments manufact	2340	Women's, misses', children's, and infants' undergarments –	234
manufacturing.					
		uring.			
	235	Hats, caps, and millinery manu	2350	Hats, caps, and millinery manufac	235
		facturing.			
	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 manufacturing.	3131
			2364		
nanufacturing.	314				
manufacturing.	315		2365	Leather gloves and mittens-	
manufacturing.	515		2366	Luggage manufacturing.	316
			2367	Handbags and other personal leather goods manufacturing.	317
			2369	Other leather products manufacturing, <u>NEC.</u>	319
	237		2370	Fur goods manufacturing.	237

B 3

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Code	Category		Category	Code	Category	<i>Reference</i> ⁴	Ch
	parel and other finished cts made from fab	238	Miscellaneous apparel and acces	2381	Dress and work gloves (except knit and all leather) manufacturing.	2381	
rics, le	eather, and similar materials manufacturing		sorres manufacturing.	2382	Robes and dressing gowns-manu- facturing.	2384	
	ontinued			2383	Raincoats and other waterproof outer	2385	
				2384	Leather and sheep lined clothing manufacturing.	- 2386	
				2385	Apparel beltsmanufacturing.	2387	
				2389	Other miscellaneous apparel and ac cessory manufacturing, NEC.	<u></u>	
		239	Other fabricated textile products manufacturing, NEC.	2391	Curtains and draperies manufac turing.	<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.	2395	
				2396	Apparel findings and related prod-	2396	

				ucts manufacturing.	
			2399	Other fabricated textile products	2397 ar
				manufacturing, NEC.	2399
				<u>e</u> .	
24 Lumber and wood prod	241	- Logging camps and logging con	2410	Logging camps and logging contrac	241
ucts (except furniture)		tractors.		tors.	
manufacturing.					
	242	Sawmills and planing mills.	2421	-Sawmills and planing mills, general.	2421
		1 0	2422	Hardwood dimension and flooring	2426
				manufacturing.	
			2429	Special sawmill products manufac	2429
				turing, NEC.	
				-	
	243	Millwork, veneer, plywood, and	2431	Millwork.	2431
		prefabricated structural wood	2432	Veneer and plywood manufactur	2432
		products manufacturing.		— ing.	
			2433	Prefabricating wooden buildings and	2433
				structural membersmanufacturing.	
	244	Wooden containers manufactur	2440	Wooden containers manufacturing.	244
		— ing.			
	249	- Other lumber and wood products.	2491	Wood preserving.	2491
	247	(except furniture) manufactur-	2491	Other lumber and wood products	2491
		ing, NEC.	2/199	<u>(except furniture) manufacturing,</u>	2/199
		mg, NEC.		— (except furniture) manufacturing, — NEC.	
				NEC.	
25 Furniture and fixtures	251	Household furniture manufactur	2510	Household furniture manufacturing.	251
manufacturing.		— ing.		-	
-		-			
	252	Office furniture manufacturing.	2520	Office furniture manufacturing.	252
	253	Public building and related fur	2530	Public building and related furni	2531
		niture manufacturing.		ture manufacturing.	
	254		25.40		254
	254	Partitions, shelving, lockers, and	2540	Partitions, shelving, lockers, and	254
		office and store fixtures manu		office and store fixtures manu	
		facturing.			
	250	Other furniture and fixtures manu	2501	Venetian blinds and shades manu	2591
	- 237	facturing, NEC.	2371	facturing.	2371
		Tucturing, THEC.	2599	Other furniture and fixtures manu-	2599
				facturing, NEC.	- 2377
				-	
26 Paper and allied products	261	Pulp manufacturing.	2610	Pulp manufacturing.	261
manufacturing.					
	262	Paper (except building paper)	2620	Paper (except building paper)	262
		manufacturing.			

B-4

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 Category	Code	Category	Code	Category	Reference ⁴ Cla

26 Paper and allied products	263	Paperboard manufacturing.	2630	Paperboard manufacturing.	263
manufacturing Continued	264	Converted paper and paperboard	2641	Paper coating and glazing.	264
	204	products (except containers and	2642	Envelope manufacturing.	
		boxes)manufacturing.	2642	Bags (except textile bags)manu-	264
		boxes) manaractaring.	2015	facturing.	201
			2644	-	264
			2644		264
			2043	- cardboard manufacturing.	204
			2646	Pressed and molded pulp goods	264
			2040	manufacturing.	204
			2647	Sanitary paper products manufac	264
			2017	turing.	201
			2649	Other converted paper and paper	264
			2019	 board products (except containers 	201
				and boxes) manufacturing, NEC.	
				and boxes) manufacturing, NEC.	
	265	Paperboard containers and boxes	2650	Paperboard containers and boxes	265
	200	manufacturing.	2000	manufacturing.	200
		manufacturing.		manufacturing.	
	266	Building paper and building	2660	Building paper and building board	266
	200	board manufacturing.	2000	manufacturing.	200
		board manufacturing.		manufacturing.	
Printing, publishing, and	271	Newspapers: publishing, publish	2710	Newspapers: publishing, publishing	271
allied industries.	271	ing and printing.	2710		271
amed industries.		ing and printing.		and printing.	
	272	Periodicals: publishing, publishing	2720	Periodicals: publishing, publishing	272
	212	and printing.	2720	and printing.	212
		and printing.		and printing.	
	273	Books: publishing, publishing and	2730	Books: publishing, publishing and	273
	2.0	printing.	2,00	printing.	2.0
_		princing.		p	
	274	Commercial printing.	2740	Commercial printing.	275
		8.			
	275	Manifold business formsmanu-	2750	Manifold business formsmanufac-	276
		facturing.			
				8-	
	276	Greeting card manufacturing.	2760	Greeting card manufacturing.	277
	277	Bookbinding and related indus	2771	Blankbooks, looseleaf binders, and	2782
	2	triesmanufacturing.	2771	<u>devices-manufacturing.</u>	2703
		ines manufacturing.	2772	Bookbinding and miscellaneous re	278
			2772	lated work manufacturing.	270
	278	Printing trade service industries.	2781	Typesetting.	279
	210	- mung unde sei vice industries.	2782	Photoengraving.	279
			2782	Electrotyping and stereotyping.	279
			2789	Other printing trade service indus-	279
			2109	- tries, NEC.	219
	279	Other printing and publishing NEC	2790	· · · · · · · · · · · · · · · · · · ·	274
	219	Other printing and publishing, NEC.	2790	Other printing and publishing, NEC.	
28 Chemicals and allied prod	281	Industrial inorganic and organic	2810	Industrial inorganic and organic	281
	- 201	Industrial inorganic and organic	2010	Industrial inorganic and organic	- 201
ucts manufacturing.		chemicals manufacturing.		chemicals manufacturing.	
	282	Plastics materials and south sti-	2020	Plastics motorials and swith the	202
	/ X /	 Plastics materials and synthetic 	2820	Plastics materials and synthetic	
	202				
	202	resins, synthetic rubber, syn		resins, synthetic rubber, synthetic	
	202	resins, synthetic rubber, syn thetic and other manmade fibers (except glass) manufacturing.		resins, synthetic rubber, synthetic and other manmade fibers (except glass) manufacturing.	

283 Drug--manufacturing. 2831 Biological products--manufacturing. 2831

			2832	Medicinal chemicals and botanical	- 2833	
				products manufacturing.		
			2833	Pharmaceutical preparations man		
				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-		
			2843	Surface active agents, finishing	2843	
				agents, sulfonated oils, and as-		
			2844	Perfumes, cosmetics, and other toilet	2844	
				- preparations manufacturing.		
		B-5				
A STANDARD SYSTEM FOR	IDENTIFYI	NG AND CODING LAND USE AC	FIVITIES -	- TWO-, THREE-, AND FOUR-DIGIT		
		LEVELS Continued				
a.i. a		2	<i>a</i> . 1	2	SIC	-Lai
Code Category	Code	Category	Code	Category		Cle
	207		20.50		207	
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	286	
		facturing.		turing.		
	287	Agricultural chemicals manufac	2870	Agricultural chemicals manufac	<u></u>	
		turing.				
	• • •		2 001		0001	
	289	Other chemicals and allied prod	2891	Glue and gelatin manufacturing.	<u></u>	
		ucts manufacturing, NEC.	2892	Explosives manufacturing.	<u></u>	
			2893	Printing inkmanufacturing.	<u></u>	
			2894	Carbon black manufacturing.	2895	
			2899	Other chemicals and allied products	2899	
9 Petroleum refining and re	291	Petroleum refining.	2910	Petroleum refining.	<u></u>	
lated industries.	-					
	292	Paving and roofing materials	2921	Paving mixtures and blocks manu	2951	
		manufacturing.		facturing.		
			2922	Asphalt felts and coatings manu	- 2952	
				facturing.		
	299	Other petroleum refining and re-	2991	Lubricating oils and greasesmanu-	<u> 2992</u>	
		lated industries, NEC.		facturing.		
			2999	Other petroleum and coal products	- 2999	
				manufacturing, NEC.		
Rubber and miscellaneous	311	Tires and inner tubes manufac	3110	Tires and inner tubes manufactur		
plastic productsmanu-		turing.		— ing.		
facturing.						
-	312		3120	Rubber footwear manufacturing.	302	
		C		č		
	313	Reclaiming rubber.	3130	Reclaiming rubber.	303	
				2		
	314	Miscellaneous plastic products	3140	Miscellaneous plastic products	307	
		r abre producto	21.0	Finite broaden		

			manufacturing.		manufacturing.	
		319	Other fabricated rubber products	3190	Other fabricated rubber products manufacturing, NEC.	306
-32	Stone, clay, and glass prod- ucts manufacturing.	321	Flat glassmanufacturing.	3210	Flat glassmanufacturing.	<u>3211 and</u> incl. 3231
		322	Glass and glassware (pressed or blown) manufacturing.	3221	Glass containers manufacturing.	<u>- 3221 and</u> incl. 3231
			ciona) manaratangi	3229	Other glass and glassware (pressed or blown) manufacturing, NEC.	
		323	Cement (hydraulic) manufactur ing.	3230	Cement (hydraulic) manufacturing.	<u>324</u>
		324	Structural clay products manu facturing.	3241	Brick and structural clay tile manu facturing.	3251
				3242	Ceramic wall and floor tile manu facturing.	3253
				3243	Clay refractories manufacturing.	3255
				3249	Other structural clay products manu facturing, NEC.	3259
		325	Pottery and related products manufacturing.	3251	Vitreous china plumbing fixtures, china, earthenware fittings, and bathroom accessories manufacturing.	3261
				3252	Vitreous china table and kitchen articles manufacturing.	3262
				3253	Fine earthenware (whiteware) table and kitchen articles manufacturing.	<u>3263</u>
				3254	Porcelain electrical supplies manu facturing.	3264
				3259	Other pottery and related products manufacturing, NEC.	3269

B-6

Code	Category	Code	Category	Code	Category		<u>La</u>
Couc	Cutegory	Cour	Curegory	Couc	Curegory	Rejerence	Cu
-32	Stone, clay, and glass prod	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	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.	<u>328</u>	
		328	Abrasive, asbestos, and miscella neous nonmetallic mineral prod ucts-manufacturing.	3280	Abrasive, asbestos, and miscella neous nonmetallic mineral prod- ucts - manufacturing.	329	

Primary metal industries.	331	Blast furnaces, steel works, and	3311	Blast furnaces (including coke ovens),	33
		the rolling and finishing of fer		steel works, and the rolling of fer-	
		rous metals.			
			3312	Electrometallurgical products man	33
			5512		55
			2212	Steel wire drawing and steel nails	33
			3313		
				and spikes manufacturing.	
			3314	Cold rolled sheet, strip, and bars	- 33
				manufacturing.	
			3315	Steel pipe and tubes manufacturing.	- 33
	332	Iron and steel foundries.	3320	Iron and steel foundries.	33
	333	Primary smelting and refining of	3331	Primary smelting and refining of	33
		nonferrous metals.		<u> </u>	
		nomenous metals.	3332	**	33
			3332		
				lead.	
			3333	Primary smelting and refining of	33
			3334	J	- 33
			3339	Other primary smelting and refining	
				of nonferrous metals, NEC.	
	334	Secondary smelting and refining of	3340	Secondary smelting and refining of	33
	554	nonferrous metals and alloys.	5540	- nonferrous metals and alloys.	52
		nomenous means and anoys.		momentous metais and anoys.	
	335	Rolling, drawing, and extruding of	3351	Rolling drawing, and extruding of	- 33
		nonferrous metals.			
			3352	Rolling, drawing, and extruding of	33
				aluminum.	
			3353	Rolling, drawing, and extruding of	33
			5555	nonferrous metals (except copper	5.
				and aluminum).	
			2254	,	33
			3334	Drawing and insulating of nonferrous	- 3.
				wire.	
	22.6				
	336	Nonferrous foundries.	3360	Nonferrous foundries.	3
	339	Other primary metal industries,	3390	Other primary metal industries,	
		NEC.		— NEC.	
- 34 Fabricated metal prod	341	Ordinance and accessories.	3411	Guns, howitzers, mortars, and re	
ucts manufacturing.				lated equipment manufacturing.	
acts manaractaring.			3412	Ammunition (except small arms)	
			5412		1,
				manufacturing and complete as	
				sembling of guided missiles and	
				space vehicles.	
			3413	Tanks and tank components manu	
				<u>facturing.</u>	
			3414	Sighting and fire control equipment	
				manufacturing.	
			3415	Small arms manufacturing.	
			5415		
			2116	Small arms ammunition manufac	
			3416	Small arms ammunitionmanufac-	
			<u> </u>		19

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Code	Category	Code	Category	Code	Category	
24	Fabricated metal prod	342	Mashinary (avaant electrical)	3421	Engines and turbines manufactur	351
-34	- Fabricated metal prod 		Machinery (except electrical)			
	-		manufacturing.	2400	ing. E-main and the second second second	250
	Continued.			3422	Farm machinery and equipment	<u> </u>
					manufacturing.	
				3423	,8,	353
					handling machinery and equip-	
					ment manufacturing.	
				3424	Metalworking machinery and equip	354
					ment manufacturing.	
				3425	-	355
					metalworking machinery)manu-	
					metalworking machinery)manu-	
			-	2100	<u>facturing.</u>	
				3426	General industrial machinery and	356
					equipment manufacturing.	
				3427	• • • • • • • • • • • • • • • • • • •	357
					machines manufacturing.	
				3428	÷	358
					facturing.	
				3429	-	359
				5427	except electrical), NEC.	
					(except elecuncar), MLC.	
		242	The state of the second second	2421	21 1 to - mission and distribu	261
		<u> </u>	Electrical machinery, equipment,	3431	Electrical transmission and distribu	361
			and suppliesmanufacturing.		tion equipmentmanufacturing.	-
				3432	r r r	362
					manufacturing.	
				3433	Household appliances manufactur	
				3434	Electric lighting and wiring equip	364
					ment-manufacturing.	
				3435	Radio and television receiving sets	365
				5-55	•	- 305
					<u>(except communication types)</u>	
			-	2126	manufacturing.	
				3436		
					facturing.	
				3437	Electronic components and acces-	<u> </u>
					sories manufacturing.	
				3439	Other electrical machinery, equip	369
					ment, and supplies manufactur	
					ing, NEC.	
					- mg, rube.	
		244	T	2441	M (an architeles and motor vehicle	271
			Transportation equipmentman-	3441	Motor vehicles and motor vehicle	371
			ufacturing.		equipment manufacturing.	
				3442	Aircraft and parts manufacturing.	372
				3443	Ship and boat building and repairing.	373
				3444	Railroad equipment manufacturing.	374
<u> </u>				3445		<u> </u>
					manufacturing.	
				3449	-	<u> </u>
						- 319
					manufacturing, NEC.	
						2.11
		÷ 10				241
			Other fabricated metal products manufacturing, NEC.	<u> </u>	Metal cans manufacturing. Cutlery, hand tools, and general	<u></u>

3493	Heating apparatus (except electri cal) and plumbing fixtures man- ufacturing.	<u></u>
 3494	Fabricated structural metal prod	
	-ucts-manufacturing.	
3495	Screw machine products and bolts,	<u> </u>
	nuts, screws, rivets, and washers	
	manufacturing.	
3496	Metal stamping manufacturing.	<u> </u>
3497	Coating, engraving, and allied serv	<u> </u>
	ices.	
3498	Fabricated wire products (miscella-	348
	neous products) manufacturing.	
3499	Other fabricated metal products	349
2177	manufacturing, NEC.	0.0

<u>B-8</u>

To da	Catacom	Cal	Catagomi	Cali	Catagomi		
Code	Category	Code	Category	<u>Code</u>	Category		
5	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.						
		352	Instruments for measuring, con	3521	Mechanical measuring and control	3821	
			trolling, and indicating physical		ling instruments (except automatic		
			characteristics manufacturing.		temperature controls) manufac-		
				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	<u></u>	
			struments and supplies manu-		and apparatusmanufacturing.		
			— facturing.				
				3542	Orthopedic, prosthetic, and surgical	3842	
					appliances and supplies manufac		
					turing.		
				3543	Dental equipment and supplies	3843	
					manufacturing.		
		355	Ophthalmic goods manufactur	3550	Ophthalmic goods manufacturing.	385	
			ing.				
		356	Photographic equipment and sup	3560	Photographic equipment and sup		
		550	pliesmanufacturing.	5500	plies-manufacturing.	500	
			phos mananacaring.		phos manaracturing.		
		357	Watches, clocks, clockwork oper	3570	Watches, clocks, clockwork operated		
			ated devices, and parts manu		devices, and parts manufacturing.		
30	Miscellaneous manufactur-	201	Inviolate all composes and all start	2011	Inviality and mensions motals are the	2011	
,y	wiscenaneous manufactur-	391	Jewelry, silverware, and plated	3911	Jewelry and precious metals-manu-	<u> </u>	

ing, NEC.	ware manufacturing.		facturing.	
	-	3912	Jewelers' findings and materials	- 3912
			manufacturing.	
		3913	Lapidary work.	3913
		3914	Silverware and plated ware manu	3914
			facturing.	
	392 Musical instruments and parts	3920	Musical instruments and parts	393
	manufacturing.		manufacturing.	
	- 393 Toys, amusement, sporting, and	3930	- Toys, amusement, sporting, and	394
	athletic goods-manufacturing.			571
	394 Pens, pencils, and other office	3940	Pens, pencils, and other office and	395
	and artists' materials manu		artists' materials manufacturing.	- 575
	facturing.		ution inderidio indiatavening.	
	395 Costume jewelry, costume novel-	3950	Costume jewelry, costume novelties,	396
	ties, buttons, and miscellaneous		buttons, and miscellaneous notions	_ 570
	notions (except precious metals)		(except precious metals) manu	
	manufacturing.		facturing.	
	396 Tobacco manufacturing.	3961	Cigarettes manufacturing.	211
	570 1000000	3962	Cigarsmanufacturing.	212
		3963	- Tobacco (chewing and smoking) and	<u></u>
			snuff manufacturing.	
		3964	Tobacco stemming and redrying.	214
	- 397 Motion picture production.	3970	Motion picture production.	7811

<u>B-9</u>

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Code	Category	Code	Category	Code	Category		Cla
- 39	39 Miscellaneous manufactur ing, NECContinued.		er miscellaneous manufactur 19. NEC.	3991	Brooms and brushes manufactur	3981	
			5,	3992	Linoleum, asphalted felt base, and other hard surface floor cover manufacturing, NEC.	<u> </u>	
				3993	Matches manufacturing.	3983	
				3994	Lamp shades manufacturing.	3987	
				3995	Mortician's goods-manufacturing.	3988	
				3996	Fur dressing and dyeing	<u> </u>	
				3997	- Signs and advertising displays 	3993	
				3998	Umbrellas, parasols, and canes	3995	
				3999	Other miscellaneous manufacturing,	3984 and	

				NEC.	3999
41 Railroad, rapid rail transit,		Railroad transportation.	4111	Railroad right of way (excluding	
and street railway trans					
portation.				Railroad switching and marshaling	
				— yards.	
				Railroad terminals (passenger).	
				Railroad terminals (freight).	
				Railroad terminals (passenger and	
			4116	Railroad equipment and mainte	
			4119	Other railroad transportation, NEC.	
				-	
	412	Rapid rail transit and street rail	4121	Rapid rail transit and street railway	
		way transportation.		right of way.2	
		·····		•• • •••••••••••	
			4122	Rapid rail transit and street railway	
				passenger terminals.3	
			4123		
				equipment maintenance.	
			4129		
				railway transportation, NEC.	
				Turway transportation, 1(20.	
42 Motor vehicle transporta	421	Bus transportation.	4211	Bus passenger terminals (intercity).4	
tion.		2		Bus passenger terminals (local).4	
				Bus passenger terminals (intercity	
				— and local).4	
			4214	'	
			7217	- Bus garaging and equipment manne	
			4219	Other bus transportation, NEC.	
			4217	- Other ous transportation, reac.	
	422	Motor freight transportation.	4221	Motor freight terminals.	
			4222	Motor freight garaging and equip	
			7666	ment maintenance.	
			4229		
				<u>— NEC.</u>	
				— NEC.	

FOOTNOTES

-¹The 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
Code Category	Code	Category	Code	Category	Reference ¹
42 Motor vehicle transporta	429	Other motor vehicle transporta	4291	Taxicab transportation.	4121
tion Continued		tion, NEC.	4299	Other motor vehicle transportation,	7121
tion Continued			+277	NEC.	
43 Aircraft transportation.	431	Airports and flying fields.	4311	Airport and flying field landing/	
				takeoff fields.	
			4312	Airport and flying field terminals	
				(passenger).	
			4313	Airport and flying field terminals	
				(freight).	
			4314	Airport and flying field terminals	
			4315	Aircraft storage and equipment	
				maintenance.	
			4319	Other airports and flying fields,	
				— NEC.	
	439	Other aircraft transportation,	4391	Heliport landing/takeoff pads.5	
		NEC.	4399	Other aircraft transportation, NEC.	
				▲ ·	
44 Marine craft transporta	441	Marine terminals.7	4411	Marine terminals (passenger).8	
tion.8				Marine terminals (freight).	
				Marine terminals (passenger and	
				— freight).	
			4414		
			++1+	ing).	
			4419	-	
	449	Other marine craft transportation,	,	Other marine craft transportation,	
		NEC.	-++>0	NEC.	
Highway and street right of way.	451	Freeways.	4510	Freeways.9	
	452	Expressways.	4520	Expressways.10	
	453	Parkways.		Parkways.11	
	454	Arterial streets.	4540	Arterial streets.12	
	455	Collector/distributor streets.	4550	Collector/distributor streets.13	
	456	Local access streets.		Local access streets.14	
	430	Alleys.		Alleys.15	
	437	Other highway and street right of		Other highway and street right of	
	- 437	way, NEC.		way, NEC.	
		way, MEC.		way, ivec.	
Automobile parking.	460	Automobile parking.	4600	Automobile parking.16	
Communication.		Telephone communication.	<u></u>	Telephone exchange stations.	
Communication.	- + / i	reprone communication.		Telephone relay towers (microwave).	
			4/19	Other telephone communication, NEC.	
	472	Telegraph communication.	4721	Telegraph message centers.	
	-172	relegiupit communication.		Telegraph transmitting and receiv	
			4/22		
			4720	 ing stations (only). Other telegraph communication, 	
			4/29	other telegraph communication,	
	473	Radio communication.			

		4732 4739	Radio transmitting stations and towers. Other radio communication, NEC.
474	Television communication.	4741 4742	Television broadcasting studios (only). Television transmitting stations and relay towers.
		4749	Other television communication, NEC.
	Radio and television communica tion (combined systems).	4751	Radio and television broadcasting studios, only (combined systems).
		47 59	Other combined radio and television communication, NEC.

479 Other communication, NEC. 4790 Other communication. NEC.

SIC

B-11

Code	Category	Code	Category	Code	Category	
48 Util	lities	481	Electric utility.	4811	Electric transmission right of way.17	
			-	4812	Electric generation plants.	
				4813	Electricity regulating substations.	
				4819	Other electric utility, NEC.	
		482	Gas utility.	4821	Gas pipeline right-of-way.17	
			-	4822	Gas production plants.	
				4823	Natural or manufactured gas storage	
					and distribution points.	
				4824	Gas pressure control stations.	<u> </u>
				4829	Other gas utilities, NEC.	
		483	Water utilities and irrigation.	4831	Water pipeline right of way.17	
				4832	Water treatment plants (purifica	
					— tion).	
				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.	
				4842	Sewage sludge drying beds.	
				4843	Sewage pressure control stations.	
				4849	Other sewage disposal, NEC.	
		485	Solid waste disposal.	4851	Refuse incineration.	
			-	4852	Central garbage grinding stations.	
				4853	Compositing plants.	
				4854	Sanitary landfills.	

			4855	Refuse disposals.	
			4856	Industrial waste disposals.	
			4857	Active slag dumps and mineral waste	
			4859	Other solid waste disposal, NEC.	
	489	Other utilities, NEC.	4890	Other utilities, NEC.	
	-07	Other utilities, refe.	4070	Other utilities, NEC.	
49 Other transportation, com	-491	Other pipeline right of way and	4911	Petroleum pipeline right of way.17	
munication, and utilities,		 pressure control stations, NEC. 	4912	Petroleum pressure control stations.	
NEC.			4919	Other pipeline right of way and pres	
				sure control stations, NEC.	
	492	Transportation services and ar	4921	Freight forwarding services.	
	472	rangements.	4921	Treight for warding services.	-4712
		Tangements.	4922	Packing and crating services.	4783
			4923	Travel arranging services.	<u> 472</u>
			4924	Transportation ticket services. 18	
			4929	Other transportation services and	
				arrangements, NEC.	
	499	- Other transportation, communic	a 4900	Other transportation, communica	
		tion, and utilities, NEC.		tion, and utilities, NEC.	
			⁵ Code 439	1 "Heliport landing/takeoff pads" are	
identified only	of refere	nce. They are the			
identified only —— ⁴ The SIC codes are listed for purposes	of refere	ence. They are the		1 "Heliport landing/takeoff pads" are	
identified only ¹ The SIC codes are listed for purposes 131, "Airports			when they are so	eparate activities and not a part of code	
identified only —— ⁴ The SIC codes are listed for purposes 131, "Airports codes in the SIC system that most nearly co	rrespond	to the 4 digit	when they are so and flying fields	eparate activities and not a part of code	
identified only The SIC codes are listed for purposes 131, "Airports codes in the SIC system that most nearly con land use activity indicated. (See ch. III, See	rrespond	to the 4 digit	when they are so and flying fields	eparate activities and not a part of code	
identified only ⁴ The SIC codes are listed for purposes 131, "Airports codes in the SIC system that most nearly cor land use activity indicated. (See ch. III, See maintenance and	rrespond . A3, "T	to the 4 digit he Use of Stand	when they are so and flying fields Code 44	eparate activities and not a part of code	
identified only The SIC codes are listed for purposes 131, "Airports codes in the SIC system that most nearly co land use activity indicated. (See ch. III, Sec maintenance and ard Industrial Classification Nomenclature."	rrespond . A3, "T	to the 4 digit he Use of Stand	when they are so and flying fields Code 44	eparate activities and not a part of code "Marine craft transportation." The	
identified only — ⁴ The SIC codes are listed for purposes 131, "Airports codes in the SIC system that most nearly co land use activity indicated. (See ch. III, See maintenance and ard Industrial Classification Nomenclature." boat building	rrespond . A3, "T	to the 4 digit he Use of Stand	when they are se and flying fields ⁶ Code 44 repair of marin	eparate activities and not a part of code <u>,</u> <u>"Marine craft transportation." The</u> re craft should be coded 3443, "Ship and	
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identified only ⁴ The SIC codes are listed for purposes 431, "Airports codes in the SIC system that most nearly con- land use activity indicated. (See ch. III, Sec maintenance and ard Industrial Classification Nomenclature." boat building there is no corresponding SIC code. ² Code 4121 "Rapid rail transit and str facilities (e.g., includes only that land which is not within p used by com- within a public street right of way). Railrood facilities that rapid rail transit is considered to be railroad identified under 4111. ² Code 4122 "Rapid rail transit and str include ferry terminals. minals" identifies only those terminals that of the street only those terminals that of within a street on the street of the street of the street of the street of within a street of the street	rrespond - A3, "T - A das 	to the 4 digit he Use of Stand h indicates that yay right of way" ght of way (e.g., of way used by way and is coded	when they are so and flying fields ——"Code 44— repair of marin —and repairing." ——"Code 441 —wharves, piers, —mercial passen —primarily serve —code 744, "Ma ——"Code 441	Parate activities and not a part of code , "Marine craft transportation." The te craft should be coded 3443, "Ship and "Marine terminals" include all docking , and docks) and associated areas that are ger, freight, and fishing craft. Docking Precreational type of marine craft are rinas," 1 - "Marine terminals (passenger)"	
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identified only ⁴ The SIC codes are listed for purposes 431, "Airports codes in the SIC system that most nearly con- land use activity indicated. (See ch. III, See maintenance and ard Industrial Classification Nomenclature." boat building there is no corresponding SIC code. ² Code 4121 "Rapid rail transit and str facilities (e.g., includes only that land which is not within pused by com- within a public street right of way). Railroof facilities that rapid rail transit is considered to be railroad- identified under 4111. ² Code 4122 "Rapid rail transit and str include forry terminals. minals" identifies only those terminals that of through traffic public right of way (e.g., within a public stre- ⁴ Codes 4211, 4212, 4213 "Bus passer	rrespond - A3, "T - A das 	to the 4 digit he Use of Stand h indicates that ay right of way" ght of way (e.g., of way used by way and is coded ay passenger ter ocated within of way).	when they are se and flying fields — "Code 44- — repair of marin and repairing." — "Code 441 — wharves, piers, — mercial passen — primarily serve — code 744, "Ma — "Code 441 — "Code 451 — with full control	eparate activities and not a part of code , "Marine craft transportation." The re craft should be coded 3443, "Ship and "Marine terminals" include all docking , and docks) and associated areas that are ger, freight, and fishing craft. Docking = recreational type of marine craft are rimas," 1 - "Marine terminals (passenger)" 0 - "Freeways" are divided highways for	
431, "Airports codes in the SIC system that most nearly con- land use activity indicated. (See ch. III, See maintenance and ard Industrial Classification Nomenclature." boat building there is no corresponding SIC code. ————————————————————————————————————	rrespond . A3, "T .) A das rect railw public rig to right of right of rect railw are not k rect right rect right	Leo the 4 digit he Use of Stand h indicates that yay right of way" ght of way (e.g., of way used by way and is coded yay passenger ter ocated within of way). hinals" identifies only	when they are se and flying fields "Code 44- repair of marin and repairing." 	eparate activities and not a part of code , "Marine craft transportation." The re craft should be coded 3443, "Ship and "Marine terminals" include all docking , and docks) and associated areas that are ger, freight, and fishing craft. Docking > recreational type of marine craft are rinas," 1 - "Marine terminals (passenger)" 0 - "Freeways" are divided highways for b) of access and no cross traffic at grade.	
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identified only ⁴ The SIC codes are listed for purposes 431, "Airports codes in the SIC system that most nearly con- land use activity indicated. (See ch. III, See maintenance and ard Industrial Classification Nomenclature." boat building there is no corresponding SIC code. ² Code 4121 "Rapid rail transit and str facilities (e.g., includes only that land which is not within pused by com- within a public street right of way). Railroof facilities that rapid rail transit is considered to be railroad- identified under 4111. ² Code 4122 "Rapid rail transit and str include forry terminals. minals" identifies only those terminals that of through traffic public right of way (e.g., within a public stre- ⁴ Codes 4211, 4212, 4213 "Bus passer	rrespond . A3, "T .) A das rect railw public rig to right of right of rect railw are not k rect right rect right	Leo the 4 digit he Use of Stand h indicates that yay right of way" ght of way (e.g., of way used by way and is coded yay passenger ter ocated within of way). hinals" identifies only	when they are se and flying fields "Code 44- repair of marin and repairing." 	eparate activities and not a part of code , "Marine craft transportation." The re craft should be coded 3443, "Ship and c. "Marine terminals" include all docking , and docks) and associated areas that are ger, freight, and fishing craft. Docking e recreational type of marine craft are rimas," 1 - "Marine terminals (passenger)" 0 - "Freeways" are divided highways for pl of access and no cross traffic at grade. 20 - "Expressways" are divided highways 1 or partial control of access with grade	

⁴⁴Code 4530 "Parkways" are highways for noncommercial traffic, ¹⁷ parking spaces), and that serves no other single type of activity. with full or partial control of access. They are located within a park ¹⁷ This code includes parking on open lots, parking within parking struetures, parking within structures that also house other activities (e.g., or within a ribbon of parklike development. -¹²Code 4540---"Arterial streets" are those streets which serve move----------parking area in an office building), and the parking area at shopping ments of traffic and are not freeways, expressways, and parkways. centers. Parking areas of less than 5,000 square feet are not identified Generally there is no control of access. as a separate activity. ¹³Code 4550 "Collector/distributor streets" are those streets that -¹⁷Codes 4811, 4821, 4831, 4911 These codes identify those areas collect traffic from the local streets and channel it into the arterial where the surface is devoted exclusively to the right-of-way of the respecsystem. These streets also provide necessary cross connections be tive activities and is used for no other purposes tween arterials. The collector/distributor street does not handle long ⁴⁸Code 4833 "Water storage" includes impounded surface water through trips, and it is not continuous for any great length. areas or water tanks used for storage. Lakes or other natural water ¹⁴Code 4560 "Local access streets" are those used primarily for formations are identified under code 93, "Water areas." ⁴⁹Code 4924 "Transportation ticket services" access to residences, businesses, or other abutting activities. include the ticket ⁴⁵Code 4570--"Alleys" are minor narrow streets usually without offices of any of the transportation systems. The ticket offices are sidewalks and on which building adjoin from the rear. identified only when they are a separate and distinct activity, not

⁴⁶Code 4600 "Automobile parking" includes nonresidential off located within one of the transportation terminals.

street parking that is 5,000 square feet or greater (or approximately

						SIC
Code	Category	Code	Category	Code	Category	
-51	Wholesale trade.2		Motor vehicles and automotive equipment-wholesale.		Automobiles and other motor vehi	
			equipment wholesale.	5112	Automotive equipment wholesale.	
				<u> </u>	Tires and tubes wholesale.	<u></u>
		512	Drugs, chemicals, and allied products wholesale.	5121	Drugs, drug proprietaries and drug gists' sundries wholesale.	5022
				5122	Paints and varnisheswholesale.	<u> </u>
				5129	Other drugs, chemicals, and allied products, wholesale, NEC.	5029
		513	Dry goods and apparel whole sale.	5131	Dry goods, piece goods, and notions wholesale.	
				5132	 Apparel and accessories, hosiery, and lingerie wholesale. 	5035
				5133	Footwear wholesale.	
		514	Groceries and related products	5141	Groceries (general line) wholesale.	
			wholesale.	5142	Dairy products wholesale.	5043
				5143	Poultry and poultry products wholesale.	504 4
				5144	Confectionery wholesale.	
				5145	Fish and seafoods wholesale.	
				5146	- Meats and meat products wholesale.	
				5147	Fruits and vegetables (fresh) wholesale.	5048

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			5149	Other groceries and related products wholesale, NEC.	5049
		Farm products (raw materials)	5151	Cotton wholesale.	
Incl. 5051		wholesale.	5152	Grainwholesale.	
Incl. 5051			5152		
Incl. 5051			3133	Hides, skins, and raw furs whole-	
				— sale.	
I1. 5051			5154	- Leaf tobacco - wholesale.	
Incl. 5051			5155	- Wool and mohair wholesale.	
Incl. 5051					
Incl. 5051			5156	Livestock wholesale.	
			5157	Horses and mules wholesale.	
Incl. 5051			5150		
Incl. 5051			3139	Other farm products wholesale,	
				NEC.	
		Electrical goods wholesale.	5161	Electrical apparatus and equipment, wiring supplies, and construction materials wholesale.	5063
			5162	Electrical appliances, television, and radio sets wholesale.	5064
			5163	Electronic parts and equipment wholesale.	5065
	517	Hardware, plumbing, heating	5171	Hardware wholesale.	5072
		equipment, and supplies	5172	Plumbing and heating equipment	5074
		wholesale.		and supplies wholesale.	
				- Air conditioning, refrigerated equip	5077

B-13

Code	Category	Code	Category	Code	Category	<u>SIC</u> Reference ¹	Lai Cle
	51 Wholesale trade 2 Continued	518	Machinery, equipment, and supplies-wholesale.	5181	Commercial and industrial machin ery, equipment, and supplies wholesale.	5082	
				5182	Farm machinery and equipment wholesale.		
				5183	Professional equipment and sup		
				5184	Equipment and supplies for service establishments wholesale.		
				5185			
				5189	Other machinery, equipment, and supplies wholesale, NEC.		

	519	Other wholesale trade, NEC.	5101	Metals and minerals (except petro	5091
	517	Suler wholesule trade, 1420.	5171	leum products and scrap) whole-	5071
				sale.	
			5100		5000
			5192	Petroleum bulk stations and termi	
			5102		5002
			5193	Scrap and waste materials whole	
			5194	Tobacco and tobacco products	5094
				wholesale.	
			5195	Beer, wine, and distilled alcoholic	<u> </u>
				beverageswholesale.	
			5196	Paper and paper products whole	
			5197	Furniture and home furnishings	5097
				wholesale.	
			5198	Lumber and construction materials	5098
				wholesale.	
			5199		<u> </u>
52 Retail trade building ma	521	Lumber and other building ma	5211	Lumber years retail	<u> </u>
terials, hardware, and		terials retail.	5212	Building materials retail.	<u> </u>
farm equipment.					
	522	Heating and plumbing equip-	5220	Heating and plumbing equipment	522
		ment retail.		retail.	
	523	Paint, glass, and wallpaper	5230	Paint, glass, and wallpaper retail.	<u> </u>
		retail.			
	524	Electrical suppliesretail.	5240	Electrical suppliesretail.	524
	525	Hardware and farm equip	5251	Hardware retail	5251
		ment retail.	5252	Farm equipment retail.	<u>5252</u>
53 Retail trade general mer	531	Department stores retail.	5310	Department stores retail.	<u> </u>
chandise.		-		•	
	532	Mail order houses retail.	5320	Mail order houses retail.	<u> </u>
	533	Limited price variety stores	5330	Limited price variety stores retail.	
		retail.			
	534	Merchandise vending machine	5340	Merchandise vending machine op-	
		operators retail.		erators retail.	
	535	Direct selling organizations	5350	Direct selling organizations retail.	
	539	Other retail tradegeneral	5391	Dry goods and general merchan-	<u> </u>
		merchandise, NEC.		dise retail.	
			5392	General stores retail.	5393
54 Retail trade food.	541	Groceries (with or without	5410	Groceries (with or without meat)	
		meat) retail			
	542	Meats and fish retail.	5421	Meats retail.	5422
			5422	Fish and seafoods retail.	5423

Code	Category	Code	Category	Code	Category	<u>SIC</u> <u>Reference</u> ⁴
Joue	Curegory	Coue	Cutegory	Coue	curegory	<u>Rejerence</u>
54	Retail trade food	543	Fruits and vegetables retail.	5430	Fruits and vegetables retail.	543
		544	Candy, nut, and confectionery retail.	5440	Candy, nut, and confectionery retail.	
		545	Dairy products retail.		Dairy products retail.	<u> </u>
		546	Bakeries retail.		Bakeries (manufacturing) retail.3	<u></u>
				5462	Bakeries (nonmanufacturing) re tail.4	<u></u>
		549	Other retail trade food, NEC.	<u>5491</u> 5499	Egg and poultry retail. Other retail trade food, NEC.	<u> </u>
	Retail trade automotive,	551	Motor vehicles retail.	5511	Motor vehicles (new and used cars)	551
marine craft, aircraft, and accessories.				5512	<u>retail.</u> Motor vehicles (used cars only) <u>retail.</u>	<u> </u>
			Tires, batteries, and acces sories retail.		Tires, batteries, and accessories retail.	<u> </u>
		553	Gasoline service stations.	5530	Gasoline service stations.	
			Other retail trade automotive,	<u> </u>	Marine craft and accessories retail	Incl. 5599
			marine craft, aircraft, and accessories, NEC.	5599	Aircraft and accessories retail. Other retail trade automotive, marine craft, aircraft, and acces- sories, NEC.	<u>Incl. 5599</u> Incl. 5599
6	Retail trade apparel and	561	Men's and boys' clothing and furnishings retail.		Men's and boys' clothing and fur nishings retail.	<u> </u>
		<u> </u>	Women's read-to-wear-retail.	5620	Women's ready-to-wear-retail.	<u> </u>
		563	Women's accessories and spe cialties retail.	5630	Women's accessories and special ties retail.	
		564	- Children's and infants' wear - retail.	5640	Children's and infants' wear retail.	
		Family clothing retail.	5650	Family clothing retail.		
		565	Family clothing Tetan.			
		<u> </u>	Shoes retail.		Shoes retail.	
					Shoes retail. Custom tailoring.	566 567
			Shoes retail.	5660		

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

	Category	Code	Category	Code	Category	SIC Reference
	0 2		0.7		0 2	9
59 <u></u>	Other retail trade, NEC.	591	Drug and proprietaryretail.	5910	Drug and proprietary-retail.	591
		592	Liquor retail.	5920	Liquor retail.	
		593	Antiques and secondhand mer	5931	Antiques retail.	
			chandise retail.	5932	Secondhand merchandise retail.	5933
		594	Book and stationery retail.	5941	Books retail.	
				5942	Stationery retail.	
		595	Sporting goods and bicycles	5951	1 000	
			retail.	5952	Bicycles retail.	
		596	Farm and garden supplies re	5961	Hay, grains, and feeds retail.	
			tail.	<u> </u>	Other farm and garden supplies retail, NEC.	5969
		597	Jewelry retail.	5970	Jewelry retail.	
		598	Fuel and ice retail.	5981	Fuel and ice dealers (except fuel oil and bottled gas dealers) - retail.	
				5982	Fuel oil retail.	<u> </u>
				5983	Bottled gas retail.	
		599	Other retail trade, NEC.	5991	-Floristsretail.	<u> </u>
				5992	Cigars and cigarettes retail.	
				5993	Newspapers and magazines retail.	
				5994	Cameras and photographic supplies	5996
				5995		<u> </u>

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

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.	
⁴ The SIC codes are listed for purposes of reference. They are the	³ 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
products sold.	
land use activity indicated. (See ch. 111. sec. A3, "The Use of Standard	4 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.	are sold.
² Code 51 "Wholesale trade." A code of "0" is used in the auxiliary	5 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.	

B-16

		·				SIC	Lai
Code	Category	Code	Category	Code	Category		Cle
	•				•		/
							- I
61	Finance insurance and	615	Real estate and related services	6151	Real estate operators (except devel-	651	Į
	Timanee, insurance, and	015	Real estate and related services.	0151	Real estate operators (except dever-	051	

opers) and lessors. real estate services 6152 Real estate agents, brokers, and 653 Continued. management services. 6153 Title abstracting services. 654 6154 Real estate subdividing and develop 655 ing services. 6155 Real estate operative builders. 656 6156 Combinations of real estate, insur 661 ance, loan, and law services. 6159 Other real estate and related services, NEC. 616 Holding and investment serv 6160 Holding and investment services. 67 ices 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, 7212, 6 dyeing services. ing services (except rugs). 7216 6212 Linen supply and industrial laundry 7213 services. 6213 Diaper services. 7214 6214 Laundering and dry cleaning (self-7215 service). 7217 6215 Rug cleaning and repair services. 622 Photographic services (includ 6220 Photographic services (including 722 ing commercial). -commercial). 623 Beauty and barber services. 6231 Beauty services. 723 6232 Barber services. 724 6241 Funeral and crematory services. 624 Funeral and crematory services; 726 cemeteries 6242 Cemeteries. 625 Apparel repair, alteration and 6251 Pressing, alteration, and garment re 7271 pair; laundry and dry cleaning cleaning pickup services; shoe repair services. pickup services (only). 7272 6252 Fur repair and storage services. 6253 Shoe repair, shoe shining, and hat 725 cleaning services. 629 Other personal services, NEC. 6290 Other personal services, NEC. 720 63 Business services. 631 Advertising services. 6311 Advertising services (general). 7311 6312 Outdoor advertising services. 7312 6319 Other advertising services, NEC. 7319 7321 632 Consumer and mercantile credit 6320 Consumer and mercantile credit re--reporting services, adjustmentporting services; adjustment and and collection services. collection services. 6331 Direct mail advertising services. 633 Duplicating mailing and steno-7331 6332 Blueprinting and photocopying serv 7332 graphic services. ice 6339 Stenographic services and other 7330 duplicating and mailing services, NEC.

634 Dwelling and other building 6341 Window cleaning services. 7341

58

services. 6342 Disinfecting and exterminating serv 7342 vices. 6349 Other dwelling and building services, 7349 NEC. 635 News syndicate services. 6350 News syndicate services. 735 636 Employment services. 6360 Employment services. 736

<u>B-17</u>

<u> </u>						SIC	
Code	Category	Code	Category	Code	Category		
-63	Business services	<u></u>	Varehousing and storage serv	6371	Farm products warehousing and	4221	
65	Continued		ces.2	- 0371	storage (excluding stockyards).		
				6372	Stockyards.	4731	
				6372	Refrigerated warehousing (except	4222	
					food lockers).	7222	
				6374	Food lockers (with or without food preparation facilities).	4223	
				6375		4224	
						7221	
				6376	÷	4225	
<u> </u>				<u>6379</u>	Other warehousing and storage, <u>NEC.</u>	4226	
			ther business services, NEC.	6391		7391	
					services.		
				<u> </u>	Business and management consulting	7392	
				6203		7393	
					Detective and protective services.	7393 7394	
					Equipment rental and leasing serv 		
				6395	Photofinishing services.	7395	
				6396	Trading stamp services.		
				6397			
					ices.		
				6398	Motion picture distribution and	7812 ar	an
				0070	services.		1.
				6399	Other business services, NEC.	7399	
-64	Repair services.		utomobile repair and services.	6411	Automobile repair services.		
		-	non	6412	Automobile wash services.	Incl. 75	5.
				6419	Other automobile services (except re	Incl. 75	
					pair and wash), NEC.		,
		<u>649 Ot</u>	ther repair services, NEC.	6491	Electrical repair services (except	Incl. 76	-6
					radio and television).		
				6492	1	7622	
				6493	Watch, clock, and jewelry repair	763	
				<u> </u>	Reupholstery and furniture repair	764	

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

B 18

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

LEVELS --- Continued

Code	Category	Code	Category	Code	Category	SIC Reference ⁴
-66	Contract construction services Continued	662	Special construction trade serv	6621	Plumbing, heating, and air condi tioning services.	171
				6622	Painting, paper hanging, and decor- ating services.	<u> </u>
				6623	Electrical services.	<u> </u>
				6624	Masonry, stonework, tile setting, and plastering service.	174
				6625	Carpentering and wood flooring.	175
				6626	Roofing and sheet metal services.	176
				6627	Concrete services.	177
				6628	Water well drilling services.	178
				6629	Other special construction trade services, NEC.	<u>179</u>
-67	Governmental services.	671	Executive, legislative, and ju-	6710	Executive, legislative, and judicial	Incl. 919,
			dicial functions.		functions.3	929, and 939

	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,
					<u>929, and 939</u>
			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
				- Williary maintenance centers.	and 929
	-		1755	a state of the state of a second	
		-	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 ser	vices. 681		6811	Nursery schools.	Incl. 821
		education.	6812	Primary (elementary) schools.5	Incl. 821
			<u>- 6813</u>	Secondary schools.6	Incl. 821
	682	University, college, junior college,	6821	Universities and colleges.	Incl. 8221
		and professional school edu	6822	Junior colleges.	Incl. 8222
		cation.	6823	Professional schools.	Incl. 8222
				- FIOICSSIONAL SCHOOLS.	
	683	Special training and schooling.	6831	Vocational or trade schools.	8242
			6832	Business and stenographic schools.	Incl. 8299
			6833	Barber and beauty schools.	Incl. 723
				-	and 724
			6834	Art and music schools.	Incl. 8299
			6835	Dancing schools.	Incl. 7911
				-	Incl. 791
			<u>- 6836</u>	Driving schools.	
			<u>- 6837</u>	Correspondence schools.	8241 L 1 8200
			6839	 Other special training and schooling, — NEC. 	Incl. 8299

	_		_		_	
Code	Category	Code	Category	Code	Category	Reference ⁴
60 N	Aiscellaneous services.		Paligious activities 7	6911	Churchas synagogy and tamplas	Incl. 866
- 09 h	virscentaneous services.	091	Religious activities.7		Churches, synagogues, and temples.	
				6919	Other religious activities, NEC.	Incl. 866
		692	Welfare and charitable services.	6920	Welfare and charitable services.	867
		699	Other miscellaneous services,	6991	Business associations.	861
			NEC.	6992	Professional membership organiza	
				6993		863
					organizations.	
				6994	-Civic, social, and fraternal associa-	864
				6999	 tions. Other miscellaneous services, NEC. 	
					,,,,,	
OOTNOTH	ES					
¹ The SIC co	des are listed for purposes o	of reference.	They are the	legislature and	courts. All operational activities (e.g.,	
hipbuilding,						
odes in the S	SIC system that most nearly	correspond	to the 4-digit land	schools, or hosp	vitals) should be identified separately	
nder the resp	pective					
se activity ir	ndicated. (See ch. III, sec. A	\3, "The Us	e of Standard	activity codes.		
ndustrial Cla	ssification Nomenclature.")	A dash inc	licates that there	-4 ⁴ Code 675 "N	4ilitary bases and reservations" include	
ne installa-						
no correspo	onding SIC code.			tions used by be	oth the active military as well as the	
eserves and	the					
² Code 637	"Warehousing and storage s	services" inc	clude only those	National Guard	-	
cilities that	are used by or are open to the	he public. V	When ware	- ⁵ Code 6812 "	Primary (elementary) schools" may or	
nay not inclu	ide					
	storage is functionally and o				but they do include grades 1 through 6.	
	ity (e.g., a general contracto	r or an appa	rel manufacturer),	⁶ Code 6813 "	Secondary schools" are schools that	
nclude grade						
	are identified and coded the	same as the	parent activity	through 12, pop	ularly known as junior and senior high	
chools.				7		
	de of 4 (warehousing and st	orage) in the	e auxiliary position.	— [≁] Code 691—"F	eligious activities" include only those	
laces operate						
	2310 4 is a warehouse and	storage area	of a manufacturer	for worship or	for the promotion of religious activities.	
ctivities						
	uths', and boys' suits, coats	, and overco	ats.	maintained by t	he religious organizations (e.g., schools,	
ospitals, put						
⁴ Code 6710	"Executive, legislative, an	d judicial fu	nctions" include	lishing houses,	etc.) should be identified separately under	
e respective	- ral and administrative office		f dha a san sina an	activity codes.		

71 Cultural activities and	711	Cultural activities.	7111	Libraries	823
nature exhibitions.			7112	Museums.	Incl. 841
			7113	Art galleries.2	Incl. 841
			7119	Other cultural activities, NEC.	
	712	Nature exhibitions.	7121	Planetaria.	
			7122	Aquariums.	Incl. 8421
			7123	Botanical gardens and arboretums.	Incl. 842
				e	

				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.	
70	D.U	721		7011		
-12	Public assembly.	/21	Entertainment assembly.	<u>7211</u> 7212	Amphitheaters. Motion picture theaters.	Incl. 7831
				7212	Drive in movies.	Incl. 7831
				7213	Legitimate theaters.	
				7214	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.	. <u></u>
				7239	Other miscellaneous assembly, NEC.	
		729	Other public assembly, NEC.	7290	Other public assembly, NEC.	
	Amusements.	731	Fairgrounds and amusement	7311	Fairgrounds.	Incl. 7949
15						Incl. 7949

*Fairgrounds are Class B Land; when used for automobile and - motorcycle racing, Fairgrounds are Class C Land.

B-20

						SIC
Code	Category	Code	Category	Code	Category	
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
74 F	Recreational activities.	741	Sports activities.	7411	-Golf courses (without country club).	
				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	<u> </u>
				7423	Playfields or athletic fields.9	<u> </u>
				7424	Recreation centers (general).10	

			5405	0 1 1 1 2 1 1	1 1 70 40
				Gymnasiums and athletic clubs.	Incl. 7949
IEC				Other playground and athletic areas,	
IEC.					
	743	Swimming areas.	7431	Swimming beaches.11	
	- /15	- Swimming areas.	7432	Swimming pools.12	7944
				- Dwinning poeter-	- ,,
	744	Marinas.13	7441	Yachting clubs.	Incl. 7949
			7442	Boat rentals and boat access sites.	
				Other marinas, NEC.	
				 , <u></u>	
	749	Other recreation, NEC.	7491	Camping and picnicking areas.14	
				Other recreation, NEC.	
75 Resorts and group camps.	751	Resorts.		General resorts.15	
				Dude ranches.	Incl. 7032
			7513	Health resorts.	Incl. 8092
			7514	Ski resorts.	
				Hunting and fishing clubs.18	Incl. 7032
				Other resorts, NEC.	
			•	· · · · · · · · · · · · · · · · · · ·	
	752	Group or organized camps.	7520	Group or organized camps.17	Incl. 7032
				i i i i i i i i i i i i i i i i i i i	
76 Parks.	761	Parksgeneral recreation.	7610	Parksgeneral recreation.18	
		e e			
	762	Parks leisure and ornamental.	7620	Parks leisure and ornamental.19	
	769	Other parks, NEC.	7690	Other parks, NEC.	
		-		-	
79 Other cultural, entertain-	790	Other cultural, entertainment,	7900	Other cultural, entertainment, and	
ment, and recreational		and recreational activities, NEC.			
activities, NEC.					
FOOTNOTES				r such facilities as sand boxes, slides,	
teeters, swings, climbing					
⁴ The SIC codes are listed for purposes of	i reference	- They are the		tus, etc. They are identified and coded	
only when found as a					
and as in the SIC system that most needly.					
codes in the SIC system that most nearry (to the 4 digit		te activity and not subsidiary to or serving	
	:orrespond	to the 4 digit	separat	e activity and not subsidiary to or serving	
another activity (e.g.			apartm	ent house or playground).	
another activity (e.g. land use activity indicated. (See ch. III. se	ec. A3, "Tł	he Use of Standard	apartm	ent house or playground).	
codes in the SIC system that most nearly c another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,") been developed for	ec. A3, "Tł	he Use of Standard	apartm		
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenelature,")- been developed for	ec. A3, "Tł	he Use of Standard		ent house or playground).	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,") been developed for is no corresponding SIC code.	ec. A3, "Tł	he Use of Standard		ent house or playground). 27422 - "Playgrounds" are areas that have	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,") been developed for is no corresponding SIC code. and coded only when	ec. A3, "Tł A dash ind	he Use of Standard dicates that there		ent house or playground). • 7422 – "Playgrounds" are areas that have play and recreation. They are identified	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,") been developed for is no corresponding SIC code. and coded only when ² Code 7113 - "Art galleries" do not includ	ec. A3, "Tł A dash ind	he Use of Standard dicates that there		ent house or playground). 27422 - "Playgrounds" are areas that have	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,")- been developed for is no corresponding SIC code. and coded only-when ² Code 7113 "Art galleries" do not inclue or serving another	ec. A3, "Tł -A dash in de those ga	he Use of Standard dicates that there alleries that sell	apartm ⁸ Code 	ent house or playground). • 7422– "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,")- been developed for is no corresponding SIC code. and coded only when – ² Code 7113 - "Art galleries" do not inclu or serving another art objects commercially. Commercial sal	ec. A3, "Tł -A dash in de those ga	he Use of Standard dicates that there alleries that sell	apartm *Code active found t	ent house or playground). • 7422- "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to y (e.g., a school).	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,")- been developed for is no corresponding SIC code. and coded only when - ² Code 7113 "Art galleries" do not inclu or serving another art objects commercially. Commercial sal retail trade, NEC."	ec. A3, "Tł -A dash in de those ga	he Use of Standard dicates that there alleries that sell	apartm *Code active found t	ent house or playground). • 7422– "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,")- been developed for is no corresponding SIC code. and coded only when ² Code 7113 "Art galleries" do not inclue or serving another art objects commercially. Commercial sal retail trade, NEC." contain a playground as	ec. A3, "Th - A dash ind ide those ga les are cod	he Use of Standard dicates that there alleries that sell ed 5999, "Other	apartm 	ent house or playground). > 7422 - "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to y (e.g., a school). > 7423 - "Playfields or athletic fields"	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,")- been developed for is no corresponding SIC code. and coded only when - ² Code 7113 - "Art galleries" do not inclus or serving another art objects commercially. Commercial sal retail trade, NEC." contain a playground as - ² Code 7191 - "Historic and monument sit	ec. A3, "Th - A dash ind ide those ga les are cod	he Use of Standard dicates that there alleries that sell ed 5999, "Other	apartm 	ent house or playground). • 7422- "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to y (e.g., a school).	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,")- been developed for is no corresponding SIC code. and coded only when ² Code 7113 "Art galleries" do not includ or serving another art objects commercially. Commercial sal retail trade, NEC." contain a playground as ² Code 7191 "Historic and monument sit sports (e.g., baseball, foot-	ec. A3, "Tł A dash in de those ga les are cod tes" includ	he Use of Standard dicates that there alleries that sell led 5999, "Other le those locations	apartm ⁸ Code 	ent house or playground). > 7422 - "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to y (e.g., a school). > 7423 - "Playfields or athletic fields" - a field(s) or court(s) for competitive	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenclature,")- been developed for is no corresponding SIC code. and coded only when ² Code 7113 "Art galleries" do not includ or serving another art objects commercially. Commercial sal retail trade, NEC." contain a playground as ² Code 7191 "Historic and monument sit sports (e.g., baseball, foot- set aside for no other purpose than to com	ec. A3, "Tł A dash in de those ga les are cod tes" includ	he Use of Standard dicates that there alleries that sell led 5999, "Other le those locations	apartm ⁸ Code 	ent house or playground). > 7422 - "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to y (e.g., a school). > 7423 - "Playfields or athletic fields"	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenelature,")- been developed for is no corresponding SIC code. and coded only when - ² Code 7113 "Art galleries" do not inclus or serving another art objects commercially. Commercial sal retail trade, NEC." contain a playground as - ² Code 7191 "Historic and monument sit sports (e.g., baseball, foot- set aside for no other purpose than to com provided. They	ec. A3, "Tł A dash in de those ga les are cod tes" includ	he Use of Standard dicates that there alleries that sell led 5999, "Other le those locations	apartm 	ent house or playground). • 7422 - "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to (e.g., a school). • 7423 - "Playfields or athletic fields" • a field(s) or court(s) for competitive • tennis). Bleachers or grandstands may be	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenelature,")- been developed for is no corresponding SIC code. and coded only when - ² Code 7113 - "Art galleries" do not includ or serving another art objects commercially. Commercial sal retail trade, NEC." contain a playground as - ² Code 7191 - "Historic and monument sit sports (e.g., baseball, foot- set aside for no other purpose than to com- provided. They activity, or person.	ec. A3, "Tł A dash in de those ga les are cod tes" includ	he Use of Standard dicates that there alleries that sell led 5999, "Other le those locations	apartm 	ent house or playground). > 7422 - "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to y (e.g., a school). > 7423 - "Playfields or athletic fields" - a field(s) or court(s) for competitive	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenelature,")- been developed for is no corresponding SIC code. and coded only when - ² Code 7113 - "Art galleries" do not includ or serving another art objects commercially. Commercial sal retail trade, NEC." contain a playground as - ² Code 7191 - "Historic and monument sit sports (e.g., baseball, foot- set aside for no other purpose than to com- provided. They activity, or person. separate activity and not	ec. A3, "TH -A dash in de those gr les are cod tes" includ	he Use of Standard dicates that there alleries that sell led 5999, "Other le those locations an historical event,	apartm 	ent house or playground). > 7422 - "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to y (e.g., a school). > 7423 - "Playfields or athletic fields" - a field(s) or court(s) for competitive - tennis). Bleachers or grandstands may be ntified and coded only when found as a	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenelature,")- been developed for is no corresponding SIC code. and coded only when - ^a Code 7113 - "Art galleries" do not includ or serving another art objects commercially. Commercial sal retail trade, NEC." contain a playground as - ^a Code 7191 - "Historic and monument sit sports (e.g., baseball, foot- set aside for no other purpose than to com provided. They activity, or person. separate activity and not - ⁴ Code 722 - "Sports assembly" includes of	ec. A3, "TH -A dash in de those gr les are cod tes" includ	he Use of Standard dicates that there alleries that sell led 5999, "Other le those locations an historical event,	apartm 	ent house or playground). • 7422 - "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to (e.g., a school). • 7423 - "Playfields or athletic fields" • a field(s) or court(s) for competitive • tennis). Bleachers or grandstands may be	
another activity (e.g. land use activity indicated. (See ch. III. se Industrial Classification Nomenelature,")- been developed for is no corresponding SIC code. and coded only when - ² Code 7113 - "Art galleries" do not includ or serving another art objects commercially. Commercial sal retail trade, NEC." contain a playground as - ² Code 7191 - "Historic and monument sit sports (e.g., baseball, foot- set aside for no other purpose than to com- provided. They activity, or person. separate activity and not	ec. A3, "TH -A dash in de those gr les are cod tes" includ	he Use of Standard dicates that there alleries that sell led 5999, "Other le those locations an historical event,	apartm 	ent house or playground). > 7422 - "Playgrounds" are areas that have play and recreation. They are identified as a separate activity and not subsidiary to y (e.g., a school). > 7423 - "Playfields or athletic fields" - a field(s) or court(s) for competitive - tennis). Bleachers or grandstands may be ntified and coded only when found as a	

- ⁵ Code 7221 "Stadiums" include those used for individual sports,	recreation for a wide variety of activities for all
ages and interests.	
e.g., baseball or football, as well as those used for several sports activi	The recreation centers may contain, but are not
limited to a gymnasium,	
ties.	
shops, etc.	
- ⁶ Code 7223 "Race tracks" include those used for individual racing	⁺⁺ Code 7431 "Swimming beaches" are beach
areas that have been	
activities, e.g., horse racing and automobile racing, as well as those used	set aside specifically for the purpose of
swimming. They are identified	
for several racing activities.	only when they are not a part of a larger activity
(e.g., a park).	
- ² Code 7421 "Play lots or tot lots" are small areas developed espe	¹² Code 7432 "Swimming Pools" are separately
identified if they are	
cially for preschool or elementary school aged children. They may	Footnotes continued on following page.
B-21	
B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIV	/ITIES TWO-, THREE-, AND FOUR-DIGIT
LEVELS Continued	
independent of other functions (e.g., code 72, "Public assembly" or	16Code 7515 "Hunting and fishing clubs" include
areas on which	
	artificially propagated game or fish are released for
purposes of hunting	
-13Code 744 "Marinas" include marine terminals and associated or fishing. If there are other	er uses made of the property (e.g., agricul-

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 coded 5591, "Marine craft and	activity of the parcel.
accessories retail" and code 3443, "Ship and boat building and re	17Code 7520 "Group or organized camps"
include general camps for	
pairing," respectively.	children, as well as Boy Scout and Girl Scout
camps.	
-14Code 7491 "Camping and picnicking areas" are separately identified	18Code 7610 "Parks general recreation" may
include, but are not	
if they are not a part of a larger activity (e.g., a park).	limited to, picnic areas, bathing beaches, playfields
hiking trails,	
-15Code 7511 "General resorts" have rooms for 20 or more persons	camping grounds, and other manmade recreation
facilities.	
and have provision for at least 2 types of recreational activities, exclud	19Code 7620 "Parks leisure and ornamental"are

largely for scenic

ing lawn games, children's playgrounds, and swimming pools. or leisure purposes. They may contain beaches, children's play facilit-

ties, monuments, or statues.

Code	Category	Code	Category		Category	Reference ⁴	C
-81 Ag	riculture.2	811	Farms (predominant crop,	8111	Farms (predominant crop, cotton).		
			fibers).3	8119	Farms (other type fiber crops).		
		812	Farms (predominant crop, cash	8120	Farms (predominant crop, cash		
			-grains).3		grains).		
		813	Farms (field crops other than	8130	Farms (field crops other than fiber		
			fiber or cash grain crops).3		or cash grain crops).		
		814	Farms (predominant crop,	8141	Farms (predominant crop, fruits).		
			fruits, tree nuts, or vegeta	8142	Farms (predominant crop, tree nuts).		
			bles).3	8143	Farms (predominant crop, vege-		

tables). 8150 815 Farms (predominantly dairy Farms (predominantly dairy prod products).3 ucts). 816 Farms and ranches (livestock 8161 Farms and ranches (predominantly other than dairy).3 cattle). 8162 Farms and ranches (predominantly hog). 8163 Farms and ranches (predominantly sheep). Farms and ranches (predominantly 8164 goat). 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).3 819 Other agriculture and related 8191 Range and grassland pastures (notactivities, NEC. farm or ranch).4 8192 Horticultural specialties. 0192 8193 Apiary farms. Incl. 0193 8194 -Farms and ranches (predomi-Incl. 0193 nantly horse raising). 8199 Other agriculture and related activities, NEC. 82 Agricultural related activi 821 Agricultural processing.3 8211 -Cotton ginning and compressing. 0712 8212 Grist milling services. ties 0713 8213 Corn shelling, hay baling, and thresh 0714 ing services. 8214 Contract sorting, grading, and pack-0715 aging services (fruits and vegetables). 8219 Other agricultural processing serv-0719 ices, NEC. 8221 822 Animal husbandry services. Veterinarian services Incl. 0722 8222 Animal hospital services. Incl. 0722 8223 Poultry hatchery services. 0723 8220 Other animal husbandry services, 0729C NEC. B-22

LEVELS -- Continued

						SIC
Code	Category	Code	Category	Code	Category	Reference ⁴
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		
					for veneer logs.	
				8314	Timber production mixed uses.	
				8315	Tree products productionpredomi-	0842
					nantly gum extracting (except pine	
					gum) and bark.	
				8316	Tree products production predomi	0843
				8317	F F	
					<u>tionmixed uses.</u>	
				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.	
84	Fishing activities and re	841	Fisheries and marine products.8	8411	Finfish fisheries.	0912
0.	lated services.	011	Tionenes and marine production	8412		0913
				8419		0914 and 091
					<u>—NEC.</u>	
		842	Fishery services.	8421	Fish hatcheries.	Incl. 0989
				8429	Other fishery services, NEC.	Incl. 0989
		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.	
	lated services.	-	<u> </u>		Copper ore mining.	102
				8513	Lead and zinc ore mining.	103
				8514	Gold and silver ore mining.	104
					Bauxite and other aluminum ore	105
					mining.	
				8516	Ferroalloy ore (except vanadium)	106
				8519	 mining. Other metal ore mining, NEC. 	109
		852	Coal mining.	8521	Anthracite coal mining.	
				8522	Bituminous coal mining.	1211
				8523	Lignite coal mining.	1212
		853	Crude petroleum and natural gas.	8530	Crude petroleum and natural gas.	
		0-1		0.5.14		
		854	Mining and quarrying of non-		Dimension stone.	141

8542 Crushed and broken stone (including 142 metallic minerals (except fuels). riprap) quarrying. 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. 8551 Metal mining services. 855 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 extracand extraction, NEC. extraction, NEC. tion, NEC. B-23 B. A STANDARD SYSTEM FOR IDENTIFYING AND CODING LAND USE ACTIVITIES -- TWO-, THREE , AND FOUR DIGIT LEVELS -- Continued FOOTNOTES farm or ranch. These areas are usually part of the public domain in which grazing has been permitted. -¹The SIC codes are listed for purposes of reference. They are the <u>Code 821 "Agricultural processing" includes</u> 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 Standardcanning, or manufacturing is coded 21, "Food and kindred products-Industrial Classification Nomenclature.") A dash indicates that theremanufacturing." -6Code 83--"Forestry activities and related is no corresponding SIC code. services." The categories -²Code 81 "Agriculture." A parcel of land is considered to be inin 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 livebush 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. -³A 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 toforested areas should be separately identified. ^{-²Code 831 "Commercial forestry production"} gether as one "farm management unit," and identified by only one 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

use made of the land (the farm use taking up the greatest percentage of	excludes fuel wood and fence posts. "Forest
reserves," i.e., areas	excludes fuer wood and fence posts. I brest
farm area) excluding the areas used by farm residences and associated	withdrawn from any commercial use of the trees,
are coded 921.	withdrawn from any commercial use of the trees,
buildings, nonresident farm buildings, areas in feed crops, and grazed	"Parks," e.g., national or State parks, are also a
type of forest reserve,	ranks, e.g., hatonal of blate parks, are also a
and nongrazed forested areas. Exceptions to this rule are:	but because of their designation for recreational
activity, they should	but because of their designation for recreational
a. If 50 percent or more of the value of the farm products sold in the	be identified as "Parks" under code 76. Forested
areas not on farms,	be identified us Turks under code 76. Torested
previous year came from the sale of dairy products, or the sale of cows	ranches, or estates with no commercial use made
of the trees are coded	functions, of estates with no commercial use made
and calves, the farm is identified as "Farm (predominantly dairy	922, "nonreserve forests (undeveloped)."
products)," code 8150.	⁸ Code 841 "Fisheries and marine products"
include those establish	code off a fisheries and marine products
b. If 50 percent or more of the value of the farm products sold in	ments primarily engaged in commercial fishing,
the catching or taking	menns primarity engaged in commercial rising,
the previous year came from the sale of livestock, wool, or mohair,	of shellfish, or the gathering of seaweed,
sponges, turtles, frogs, etc.	
- the farm is identified as "Farms and ranches (livestock, other than	These activities may include some preliminary
processing, e.g., salting.	
the farm is identified as "Farms and ranches (livestock, other than	However, any extensive processing, packing,
canning, or manufacturing	8, <u></u> ,
- dairy)," code 816.	of these products should be coded under "Food
and kindred products	
and kindred products – c. If 50 percent or more of the value of the farm products sold in	manufacturing," code 21. These categories also
and kindred products— c. If 50 percent or more of the value of the farm products sold in include the docking	manufacturing," code 21. These categories also
c. If 50 percent or more of the value of the farm products sold in include the docking	manufacturing," code 21. These categories also
 e. If 50 percent or more of the value of the farm products sold in include the docking the previous year came from the sale of poultry and eggs, the farm 	
c. If 50 percent or more of the value of the farm products sold in include the docking	
e. If 50 percent or more of the value of the farm products sold in include the docking the previous year came from the sale of poultry and eggs, the farm facilities are an integral	facilities and their associated areas when these
 e. If 50 percent or more of the value of the farm products sold in include the docking the previous year came from the sale of poultry and eggs, the farm facilities are an integral is identified as "Farms (predominantly poultry)," code 8170. 	facilities and their associated areas when these part of a single fishery operation. When docking
e. If 50 percent or more of the value of the farm products sold in include the docking — the previous year came from the sale of poultry and eggs, the farm facilities are an integral — is identified as "Farms (predominantly poultry)," code 8170. facilities serve several	facilities and their associated areas when these
e. If 50 percent or more of the value of the farm products sold in include the docking — the previous year came from the sale of poultry and eggs, the farm facilities are an integral — is identified as "Farms (predominantly poultry)," code 8170. facilities serve several d. If the percentage of dairy, livestock, and poultry products,	facilities and their associated areas when these part of a single fishery operation. When docking
 e. If 50 percent or more of the value of the farm products sold in include the docking the previous year came from the sale of poultry and eggs, the farm facilities are an integral is identified as "Farms (predominantly poultry)," code 8170. facilities serve several d. If the percentage of dairy, livestock, and poultry products, 4414, "Marine terminals 	 facilities and their associated areas when these part of a single fishery operation. When docking separate fishery establishments, they are coded
 e. If 50 percent or more of the value of the farm products sold in include the docking the previous year came from the sale of poultry and eggs, the farm facilities are an integral	 facilities and their associated areas when these part of a single fishery operation. When docking separate fishery establishments, they are coded (predominantly fishing vessels)."
 e. If 50 percent or more of the value of the farm products sold in include the docking the previous year came from the sale of poultry and eggs, the farm facilities are an integral	 facilities and their associated areas when these part of a single fishery operation. When docking separate fishery establishments, they are coded (predominantly fishing vessels)."
 c. If 50 percent or more of the value of the farm products sold in include the docking the previous year came from the sale of poultry and eggs, the farm facilities are an integral is identified as "Farms (predominantly poultry)," code 8170. facilities serve several d. If the percentage of dairy, livestock, and poultry products, 4414, "Marine terminals each came to less than 50 percent of the value of the farm products services" include those 	facilities and their associated areas when these part of a single fishery operation. When docking separate fishery establishments, they are coded (predominantly fishing vessels)." "Code 85-"Mining activities and related
 e. If 50 percent or more of the value of the farm products sold in include the docking the previous year came from the sale of poultry and eggs, the farm facilities are an integral is identified as "Farms (predominantly poultry)," code 8170. facilities serve several d. If the percentage of dairy, livestock, and poultry products, 4414, "Marine terminals each came to less than 50 percent of the value of the farm products sold in the previous years, and if there are 3 or more "Farm uses" services" include those (e.g., corn crop, cotton crop, etc.) within a farm, none of which takes 	facilities and their associated areas when these part of a single fishery operation. When docking separate fishery establishments, they are coded (predominantly fishing vessels)." "Code 85-"Mining activities and related
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						SIC	La
Code	Category	Code	Category	Code	Category	Reference ⁴	Cla
<u>91</u>	Undeveloped and unused land area (excluding non commercial forest devel opment).	910	Undeveloped and unused land area (excluding noncommer- cial forest development).	9100	Undeveloped and unused land area (excluding noncommercial forest development).2		
<u> </u>	ncommercial forest de velopment.	921	Forest reserves.3	9211 9212 9219	Forest reserves (wilderness areas). Forest reserves (wildlife refuges). Other forest reserves, NEC.		

	922	- Nonreserve forests (undeveloped).	9220	Nonreserve forests (undeveloped).4
		Rivers, streams, or creeks.	9310	Rivers, streams, or creeks.
	932	Lakes.	9320	Lakes.5
	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
		Other undeveloped land and	9900	Other undeveloped land and water
and water areas, NEC. See footnotes on following page.	<u>B 24</u>	water areas, NEC.		areas, NEC.

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

FOOTNOTES	⁴ 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	
- ² 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
identified.	
appear to be undeveloped or if previously developed, are presently	⁵ 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,	⁶ Code 9510 Residential facilities under construction
are considered	
"Vacant floor area."	to be completed when all exterior windows and doors
are installed and	
- ³ Code 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	² Code 9520 "Under construction (nonresidential)" is
used only if	

70

production, but because of their designation for recreational activity there is no means of identifying the activity or activities that will

they should be identified and coded as "Parks" (code 76). occupy the structure when it is completed.

(Source: Amended at 30 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 Under 35 Ill. Adm. Code					
	104					
910.APPEND	IX A Tables of Long-Term Background Ambient Noise					
910. TABLE						
	categories and 1/3 octave-band level					
910. TABLE	B Nighttime long-term background ambient L _{eq} levels in decibels by land use categories and 1/3- octave-band level					
910. TABLE	C Daytime long-term background ambient L _{eq} levels in decibels by land use categories and octave-band level					
910. TABLE	D Nighttime long-term background ambient L_{eq} levels in decibels by land use categories and octave-band level					

AUTHORITY: Implementing and authorized by Sections 25 and 27 of the Environmental Protection Act [415 ILCS 5/25 and 27]

SOURCE: Adopted at 30 Ill. Reg. _____, effective_____.

Section 910.100 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
 - 1) An integrating sound level meter used alone or used in conjunction with an octave-band or 1/3 octave-band filter set or a real-time sound_analyzer (octave-band or 1/3 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 often 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.
 - 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 that 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 that 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 manufacturer'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.
- 5) 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.
- 7) 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.
- 10) 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 ± 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.
- 13) 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, 1/3 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 so 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_{PLNS}, 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_{PLNS} 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_{eq} 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 nondeleted 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_i 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_{eqij} each weighted by the number of seconds actually accumulated during the *i*th block results in the raw, 1-hour L_{eq} 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_{PLNS} , is given by N_{PLNS} T, where T is the length of each block in seconds and N_{PLNS} is the number of non-discarded blocks. If data inhibition is used for data collection, then T_{PLNS} is the number of non-inhibited seconds during the measurement hour. In either case, T_{PLNS} 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_{PLNS} 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_{PLNS} 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_{PLNS} 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_{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_{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
,	0.6

- 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_{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 10minute, 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 longterm background ambient noise. The first four procedures involve 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-noisesource (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 to 24 hours before, or within one to 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 to 30 days before, or within one to 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.
- Direct Measurement Procedure-4: With the PLNS turned off, measure the long-term background ambient noise during some other acoustically similar period within 30 to 90 days before, or within 30 to 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 G.L. Bonvallet, "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, 3rd 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 buses and heavy trucks accelerate.
- 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 35 Ill. Adm. Code 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_{eq} (not the octave- or 1/3 octave-band levels) using essentially one of the two procedures described in Sections 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_{eq} must be measured for each of these small blocks of time. L_{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 procedure is as follows:
 - A) L_{eq} 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 Sections 910.105 and 910.106. These requirements must be complied with to determine an A-weighted, 1-hour, background-ambient-corrected L_{eq} 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 hour 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:				
	$SEL = 10 \log (SE) + 94$	[Equation 7]			
E)	The equivalent level, L_{eq} corresponding to a SEL measured or predicted for one hour (3600 seconds) is given by:				
	$L_{eq} = SEL - 10 \log (3600)$	[Equation 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 measurements 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 longterm 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

	Background Category				
Octave-Band Center 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
,			17		
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_{eq} levels in decibels by land use categories and 1/3 octave-band level

	Background Category				
Octave-Band Center Frequency (Hz)	1	2	3	4	5
20	53 54	48	43	37	31
25	54	49	44	38	32
31	55	50	45	39	33
40	55	50	46	39 40	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
2000	44	37	31	25	19
	42	35	28	23	16
2500	40	33	25	20	14
3150	39	31	23	18	12
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

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

		Backgro	ound Catego	ry	
Octave-Band Center 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_{eq} levels in decibels by land use categories and octave-band level

	Background Category				
Octave-Band Center 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

89

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 January 19, 2006, by a vote of 4-0.

Driverty Mr. Sunn

Dorothy M. Gunn, Clerk Illinois Pollution Control Board