Small Business Regulatory Review Board Meeting Wednesday, January 24, 2018 10:00 a.m.

No. 1 Capitol District Building
250 South Hotel Street, Honolulu, HI
Conference Room 436



SMALL BUSINESS REGULATORY REVIEW BOARD

Department of Business, Economic Development & Tourism (DBEDT)
No. 1 Capitol District Bldg., 250 South Hotel St. 5th Fl., Honolulu, Hawaii 96813
Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804

Email: dbedt.sbrrb.info@hawaii.gov Website: dbedt.hawaii.gov/sbrrb Tel 808 586-2594

David Y. Ige Governor

Luis P. Salaveria

DBEDT Director

Members

Anthony Borge Chairperson Oahu

Robert Cundiff Vice Chairperson Oahu

Garth Yamanaka 2nd Vice Chairperson Hawaii

Harris Nakamoto Oahu

Nancy Atmospera-Walch Oahu

Kyoko Kimura Maui

Reg Baker Oahu

Director, DBEDT Voting Ex Officio

AGENDA

Wednesday, January 24, 2018 ★ 10:00 a.m.
No. 1 Capitol District Building

250 South Hotel Street, Conference Room 436, Honolulu, HI

- I. Call to Order
- II. Approval of December 13, 2017 Meeting Minutes
- III. Old Business
 - A. Discussion and Action on the Small Business Statement After Public Hearing and Proposed Amendments to Hawaii Administrative Rules, Title 13, Subtitle 7, **Water Resources**, promulgated by Department of Land and Natural Resources, as follows Discussion Leader Mark Ritchie
 - 1. Chapter 167, Rules of Practice and Procedure for the Commission on Water Resource Management
 - 2. Chapter 168, Water, Use Wells, and Stream Diversion Works
 - 3. Chapter 169, Protection of Instream Uses of Water
 - B. Re-discussion and Action on Proposed Amendments to HAR Title 12, Subtitle 8, Hawaii Occupational Safety and Health Division, promulgated by Department of Labor and Industrial Relations, as follows – Discussion Leader Kyoko Kimura
 - Part 1, General Legal and Administrative Provisions for Occupational Safety and Health
 - a. Chapter 50, General Provisions and Definitions
 - b. Chapter 52.1, Recording and Reporting Occupational Injuries and Illnesses
 - c. Chapter 56, Program Fees and Library Policies, General Safety and Health Requirements
 - Part 2, General Legal and Administrative Provisions for Occupational Safety and Health
 - a. Chapter 60, General Safety and Health Requirements
 - 3. Part 3, Construction Standards
 - a. Chapter 110, General Safety and Health Requirements
 - Part 5, Occupational Safety and Health Standards for Shipyard Employment
 - a. Chapter 170, Shipyards
 - 5. Part 6, Marine Terminals
 - a. Chapter 180, Marine Terminals
 - 6. Part 7, Safety and Health Regulations for Longshoring
 - a. Chapter 190, Longshoring
 - 7. Part 8, Other Safety and Health Standards
 - a. Chapter 208, Other Safety and Health Standards

Small Business Regulatory Review Board January 24, 2018 Page 2

IV. Legislative Matters

- A. Discussion and Action on Proposed Governor's Message to the State Legislature Submitting for Consideration the Gubernatorial Nomination of Reg Baker to the Small Business Regulatory Review Board for a term to expire June 30, 2018 and June 30, 2022
- B. Discussion and Action on Proposed Senate and House Bills, Relating to the Small Business Regulatory Review Board "Clarifies the Intent of the Small Business Regulatory Review Board's Powers when Reviewing State and County Administrative Rules that Impact Small Business"

V. Administrative Matters

- A. Deliberation, Decision Making, and Action on the Board's Investigative Taskforce Findings and Recommendations regarding the Development and Redesign of the Board's existing Website including Content, Features and Short- and Long-Term Goals in accordance with Section 92-2.5(b)(1)(C), Hawaii Revised Statutes (HRS)
- B. Update on the Board's Upcoming Advocacy Activities and Programs in accordance with the Board's Powers under Section 201M-5, HRS
- VI. Next Meeting: Scheduled for Wednesday, February 21, 2018, at 10:00 a.m., No. 1 Capitol District Building, Conference Room 436, Honolulu, Hawaii

VII. Adjournment

If you require special assistance or auxiliary aid and/or services to participate in the public hearing process (i.e., sign language, interpreter, wheelchair accessibility, or parking designated for the disabled), please call (808) 586-2594 at least three (3) business days prior to the meeting so arrangements can be made.

II.	Approval of December 13, 2017 Meeting	Minutes
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Approved:		

Small Business Regulatory Review Board

MINUTES OF REGULAR MEETING - Draft
December 13, 2017
Conference Room 436 - No. 1 Capitol District Building, Honolulu, Hawaii

I. CALL TO ORDER: Chair Borge called the meeting to order at 10:01 p.m., with a quorum present.

ABSENT MEMBERS:

None

MEMBERS PRESENT:

- Anthony Borge, Chair
- Robert Cundiff, Vice Chair
- Garth Yamanaka, 2nd Vice Chair
- Kyoko Kimura
- Harris Nakamoto
- Nancy Atmospera-Walch
- Reg Baker
- Mark Ritchie

STAFF: DBEDT

Dori Palcovich

Office of the Attorney General

Jennifer Waihee-Polk

II. APPROVAL OF NOVEMBER 15, 2017 MINUTES

Ms. Kimura made a motion to accept the November 15, 2017 minutes, as presented. Mr. Nakamoto seconded the motion, and the Board members unanimously agreed.

III. OLD BUSINESS

A. <u>Discussion and Action on the Small Business Statement After Public Hearing and Proposed Amendments to HAR Title 13, Chapter 74, License & Permit Provisions and Fees for Fishing, Fish, and Fish Products, promulgated by Department of Land and Natural Resources (DLNR)</u>

Mr. Alton Miyasaka, Acting Commercial Fisheries Program Manager at DLNR, explained that the Board of Land and Natural Resources recently voted to reduce the proposed fee increase from \$150 to \$100 per annum based on concerns of mostly part-time commercial fishers that testified at the public hearing. He also noted that because the "catch" report will change from monthly to weekly, DLNR is expecting that some of the fishers may drop out due to this change.

The board members wished Mr. Miyasaka well on his upcoming retirement.

Mr. Ritchie made a motion to forward the current proposed amendments to the Governor for adoption. Mr. Nakamoto seconded the motion, and the Board members unanimously agreed.

B. Testimony from Mr. Bryan Marks, Advanced Fire Protection, LLC, regarding proposed new HAR Title 12, Chapter 44.1, Testing, Certifying and Credentialing Individuals Who Perform Maintenance and Testing of Portable Fire Extinguishers, Fire Protection Systems, and Fire Alarm Systems, promulgated by Hawaii State Fire Council / Department of Labor and Industrial Relations (DLIR)

Messrs. Ed Suzuki and Lloyd Rogers, Administrative Specialists from the Hawaii State Fire Council at DLIR, addressed the concerns brought forth by Mr. Marks regarding the proposed new administrative rule.

Mr. Suzuki stated that two years ago when the promulgation of the rules began as many small businesses as possible were contacted to discuss changes to the rules and once the rules were finalized in its present form the businesses were again notified. The responses made by the State Fire Council to Mr. Marks' comments and concerns will be forwarded to him.

Ms. Kimura made a motion to forward the proposed amendments to the Governor for public hearing. Mr. Nakamoto seconded the motion, and the Board members unanimously agreed.

IV. NEW BUSINESS

- A. <u>Discussion and Action on Proposed Amendments to Title 12, Subtitle 8, Hawaii Occupational Safety and Health Division (HIOSH), promulgated by DLIR, as follows:</u>
 - Part 1, General Legal and Administrative Provisions for Occupational Safety and Health
 - a. Chapter 50, General Provisions and Definitions
 - b. Chapter 52.1, Recording and Reporting Occupational Injuries and Illnesses
 - c. Chapter 56, Program Fees and Library Policies, General Safety and Health Requirements
 - ii. Part 2, General Legal and Administrative Provisions for Occupational Safety and Health
 - a. Chapter 60, General Safety and Health Requirements
 - iii. Part 3, Construction Standards
 - a. Chapter 110, General Safety and Health Requirements
 - iv. Part 5, Occupational Safety and Health Standards for Shipyard Employment
 - a. Chapter 170, Shipyards
 - v. Part 6, Marine Terminals
 - a. Chapter 180, Marine Terminals
 - vi. Part 7, Safety and Health Regulations for Longshoring
 - a. Chapter 190, Longshoring
 - vii. Part 8, Other Safety and Health Standards
 - a. Chapter 208, Other Safety and Health Standards

Mr. Norman Ahu, DLIR's HIOSH Administrator, introduced his staff Ms. Nicole Bennett and Ms. Kristin Takaba and discussed the function of HIOSH and the proposed rule changes. The amendments, which are expected to become effective mid-2018, entail both housekeeping measures and adoption of the federal standards. The state's standards must be as effective as or better than the federal standards, and every year HIOSH must submit a report to the federal government to show that the State is in compliance; DLIR is currently delinquent in its submission to the federal government.

HIOSH provides ongoing training and presentations to businesses and associations throughout Hawaii regarding the implementation, enforcement and impact of the rules. Ongoing training, specifically with regards to silica, is currently being done; silica is like asbestos in that one may become inflicted by its use years later from cancer and lung problems. Mr. Ahu stated that the silica standard is not new to the rules and although Hawaii's standards have been determined to be better than the federal standards, if it does not meet the federal silica standards, the federal government may cease funding the federal grant to the State.

Testifier Mr. Gregg Serikaku, Executive Director of PAMCA (Plumbing & Mechanical Contractors Association of Hawaii) is not opposed to the rule proposals and he appreciates HIOSH's efforts in assisting and training its members. However, he explained that there are several lawsuits regarding silica against the federal government across the mainland. Thus, while silica is a real danger and PAMCA's membership has been through many presentations, his major concern is that if the lawsuits result in certain modifications to the standards, it could potentially add a lot of costs and changes to the procedures. He added that PAMCA will take advantage of the training and presentation services offered by HIOSH.

Testifier Ms. Shannon Alivado, representing GCA of Hawaii (General Contractors Association of Hawaii), explained that GCA has submitted testimony requesting that this Board assist in deferring action at this time on the silica proposal; at least, until HIOSH is able to adequately provide outreach for training, education, and enforcement on the silica regulation. The regulations have a major impact on small business. This is because of the many "unknowns" of the GCA's members who perform work for the federal government, and particularly for the smaller contractors with twenty-five and under employees where there has been a lack of outreach to the industry.

Testifier Mr. Blake Parson, Executive Director for SMCA (Sheet Metal Contractors Association of Hawaii) stated that while SMCA is most appreciative of HIOSH's outreach, the important part of the rules is the education and training, specifically for silica. SMCA members will be better served if the proposed rules and regulations are properly implemented rather than if the regulations are effective and improperly understood. He urged this Board to support a delay in the effective date of the silica regulation and to encourage HIOSH to implement programs and initiatives to help small businesses to better understand how to comply with the onerous regulations.

Testifier Mr. Walter Chu, PhD., a safety and health professional and consultant in the State of Hawaii, has forty-five years of experience in the occupational safety and health profession and most of his clients are small businesses. Mr. Chu stated that while OSHA's "one-size fits all" is based on at least fifty states across the country, Hawaii is clearly unique because it

has employers of various sizes, cultural differences, weather variations, and methods and techniques of work which are not considered by OSHA. Further, compliance with OSHA standards and the administrative rules is costly and the "as effective as" criteria has been a controversial issue for forty years. He believes it is up to the State to speak-up and demand that Hawaii be allowed to run its own programs based on Hawaii's particular needs.

Additional testimony from SAH (Subcontractors Association of Hawaii) was submitted with similar and/or the same sentiments as the other testifiers.

The Board discussed that HIOSH do more outreach prior to the public hearing to be sure there is open transparency and people are aware of the changes to the rules. Vice Chair Cundiff noted that one of the items this Board has been pushing for is "stakeholder involvement" and commended the organizations and small businesses for providing testimony "before" the public hearing. A concern with going to public hearing now is that after the public hearing the rules follow a "rubber stamp" process.

Furthermore, if there is time, the Board would prefer that the stakeholders come together and provide input and receive the required training and education "prior" to the public hearing. Therefore, it would be in the best interest of the small business stakeholders for HIOSH to reserve holding the public hearing until a summary of the rule amendments have been fully vetted regarding concerns posed by the testifiers.

Upon hearing from the testifiers and the Board members, Mr. Ahu explained that in accordance with the federal standards, HIOSH has been deficient for years, and in the past the federal government took over portions of HIOSH. Although HIOSH is currently delinquent in its federal reporting requirement and the need to move forward with its public hearings, he is willing to invite the stakeholders to have a discussion on the standards, and then after the meeting, report back to this Board prior to moving to public hearings.

Chair Borge reiterated Vice Chair Cundiff's sentiments and concurred with Mr. Ahu that HIOSH meet with the stakeholders to work out the concerns with the proposed rule amendments, and then come back again in front of this Board before going to the public hearing.

Action on this item was deferred.

B. <u>Discussion and Action on Requested Proposed Amendments to the Department of Transportation's HAR Title 19, Chapter 20.1, Commercial Services at Public Airports, and HAR Chapter 38.1, On-Demand Taxi Service at Public Airports, submitted by Ms. Dale Evans, CEO, Charley's Taxi and Limousine</u>

Ms. Dale Evans explained that she was in front of this Board representing the taxi cab owners who are considered "small businesses." A pilot project created by the State Department of Transportation began on December 1, 2017 whereby Uber and Lyft drivers can operate at the airports. She added that not only are the taxi cab drivers impacted, but she believes that seniors, disabled, and low-income residents are also harmed; as a result, the taxi industry is being negatively impacted.

Ms. Kimura reminded Ms. Evans that this Board was created to assist with small business regulations; however, this Board may support the businesses that are negatively impacted by rules and regulations. It was noted that prior to this meeting, DOT director contacted DBEDT staff and explained that DOT had only created a pilot program and was not amending or creating new rules.

Ms. Kimura made a motion for this Board to convene an executive session under Section 92-5(a)(4), HRS, to consult with the Board's attorney on questions and issues pertaining to the Board's powers, duties, privileges, immunities and liabilities regarding Ms. Evans' concerns; Ms. Walsh-Atmospera seconded the motion and the motion was unanimously passed.

The Board went into executive session at 12:28 p.m.; the executive session ended at 12:47 p.m.

The Board members confirmed that it is not within this Board's purview to tell an agency if they can or cannot create a pilot program. However, it is within the Board's purview to request that an agency "level the playing field" and provide fair and equitable treatment to all small businesses in the implementation process of the program.

Mr. Baker made a motion for DBEDT staff to draft a letter to DOT that entails: 1) the Board's purview under Chapter 201M, HRS; 2) concerns and suggestions regarding Uber/Lyft taxi airport access and fairness; and 3) a copy of Ms. Evans' correspondence to accompany the letter. Ms. Atmospera-Walsh seconded the motion, and the Board members unanimously agreed.

V. LEGISLATIVE MATTERS

A. <u>Discussion and Action on the Delegation of Authority to Board Member(s) and/or Staff to Submit Testimony and/or Testify on behalf of the Board during the 2018 Hawaii State Legislative Session</u>

Second Vice Chair Yamanaka made a motion to delegate authority to Chair Borge and Vice Chair Cundiff to submit testimony and/or testify on behalf of this Board during the 2018 Legislative Session. Mr. Nakamoto seconded the motion, and the Board members unanimously agreed.

VI. ADMINISTRATIVE MATTERS

A. <u>Discussion and Action on the Board's Draft 2017 Annual Report Summary for Submission to the Hawaii State Legislature pursuant to Section 201M-5(f), HRS</u>

Mr. Nakamoto made a motion to approve the draft 2017 Annual Report Summary for submission to the Hawaii State Legislature. Second Vice Chair Yamanaka seconded the motion, and the Board members unanimously agreed.

B. Findings and Recommendations by the Board's Investigative Taskforce regarding the Development and Redesign of the Board's Website including Content, Features, and Short- and Long-Term Goals in accordance with Section 92.2.5 (b)(1), HRS

Mr. Ritchie explained that the website taskforce met and came up with the functionality of the type of website that would be best for this Board; as follows:

- The "regulation review card" is to have an ability to receive testimony on upcoming meetings as well as to receive information on existing regulations;
- A feature to show how rules are made through the rule-making process;
- A link to the State's Legislative website where statutes and bills are viewed;
- The design of the website will have less of a government look with more pictures and graphics;
- Dates of the agencies' public hearings will be accessed from the website's calendar;
- A sign-up e-mail link to receive monthly agendas and to monitor specific rules will be offered;

Vice Chair Cundiff added that the purpose of the new website is to draw small business owners and people to it, and to have much more information on it so that the users can get more involved and become more interactive.

The overall summary of findings and recommendations were well-received by the members.

C. <u>Discussion and Action on the Board's Nomination(s) of Proposed Board Members for Submission to the Governor including Mr. Stu Burley and Mr. Will Lydgate, in accordance with Section 201M-5(b)(3), HRS</u>

Chair Borge explained that Mr. Stu Burley sits on another DBEDT board, Aerospace Advisory Committee, and because of this, he would be ineligible to sit on both boards. Although the board can nominate him as a member, Mr. Burley would need to step down from the other board to be gualified as a member of this board.

Vice Chair Cundiff made a motion to approve and submit the nominations of Mr. Stu Burley and Mr. Will Lydgate as members of this Board to the Governor's Boards and Commissions Office for the Governor's review and approval. Mr. Nakamoto seconded the motion, and the Board members unanimously agreed.

D. <u>Update on the Board's Upcoming Advocacy Activities and Programs in accordance with the Board's Powers under Section 201M-5, HRS</u>

Chair Borge reminded the members that Mr. Baker has scheduled January 25, 2018 as the day this Board is scheduled to be on his weekly live-streamed show, "Hawaii Business with Reg Baker." If any members can be part of this show, let DBEDT staff know.

Chair Borge and Mr. Baker met with Budget and Finance Director Wesley Machida, and Deputy Director Laurel Johnston to discuss this Board's budget request for: 1) an updated website and 2) operating expenses. Director Machida will speak to DBEDT Director

Salaveria to see what can be done with regards to the budget request; Chair Borge will also speak to Director Salaveria.

- VII. NEXT MEETING The next meeting is scheduled for Wednesday, January 24, 2018, in Conference Room 436, 250 South Hotel Street, Honolulu, Hawaii at 10:00 a.m.
- **VIII. ADJOURNMENT** Ms. Atmospera-Walch made a motion to adjourn the meeting and Mr. Nakamoto seconded the motion; the meeting adjourned at 1:20 p.m.



III. Old Business

- A. Discussion and Action on the Small Business Statement After Public Hearing and Proposed Amendments to HAR Title 13, Sub-title 7, Water Resources, promulgated by DLNR, as follows:
 - 1. Chapter 167, Rules of Practice and Procedure for the Commission on Water Resource Management
 - 2. Chapter 168, Water, Use Wells, and Stream Diversion Works
 - 3. Chapter 169, Protection of Instream Uses of Water

SMALL BUSINESS STATEMENT "AFTER" PUBLIC HEARING TO THE SMALL BUSINESS REGULATORY REVIEW BOARD (Hawaii Revised Statutes (HRS), §201M-3) Department or Agency: Commission on Water Resource Management Administrative Rule Title and Chapter: Tile 13, Sub-Title 7, Chapters 167, 168, 169 Chapter Name: See Attachment A Contact Person/Title: Lenore Ohye, Hydrologic Planning Program Manager Phone Number: 587-0220 Date: December 6, 2017 E-mail Address: lenore.n.ohye@hawaii.gov A. To assist the SBRRB in complying with the meeting notice requirement in HRS §92-7, please attach a statement of the topic of the proposed rules or a general description of the subjects involved. B. Are the draft rules available for viewing in person and on the Lieutenant Governor's Website pursuant to HRS §92-7? Yes 🗸 (If "Yes" please provide webpage address and when and where rules may be VIEWED IN DETSON.) http://litgov.hawaii.gov/the-office/administrative-rules/. 1151 Punchbowl St., Rm 227, Honolulu from 7:45 am to 4:30 pm, Mon-Fri, except holidays (Please keep the proposed rules on this webpage until after the SBRRB meeting.) Repeal Amendment / Compilation I. Rule Description: New II. Will the proposed rule(s) affect small business? Yes (If "**No**" no need to submit this form.) "Affect small business" is defined as "any potential or actual requirement imposed upon a small business . . . that will cause a direct and significant economic burden upon a small business, or is directly related to the formation, operation, or expansion of a small business." HRS §201M-1 "Small business" is defined as a "for-profit corporation, limited liability company, partnership, limited partnership, sole proprietorship, or other legal entity that: (1) Is domiciled and authorized to do business in Hawaii; (2) Is independently owned and operated; and (3) Employs fewer than one hundred full-time or parttime employees in Hawaii." HRS §201M-1 III. Is the proposed rule being adopted to implement a statute or ordinance that

does not require the agency to interpret or describe the requirements of the

(e.g., a federally-mandated regulation that does not afford the agency the discretion

No

IV. Is the proposed rule being adopted pursuant to emergency rulemaking?

to consider less restrictive alternatives.) HRS §201M-2(d)

No

(If "Yes" no need to submit this form.)

(If "Yes" no need to submit this form.)

statute or ordinance? Yes 🗸

(HRS §201M-2(a)) Yes

REVISED 8/15/2017

Small Business Statement after Public Hearing - Page 2

 Please explain how the agency involved small business in the development of the proposed rules.

The proposed rule amendment seeks to bring the rules in conformance with State statutes. Small businesses were afforded opportunity to testify on the statutory amendment as part of the legislative process.

a. Were there any recommendations incorporated into the proposed rules? If yes, explain. If not, why not?

No recommendations on the proposed rule amendment were made.

- II. If the proposed rule(s) affect small business, and are not exempt as noted above, please provide the following information:
 - 1. A description of how opinions or comments from affected small businesses were solicited.

Public notices were placed in the Garden Isle, Honolulu Star-Advertiser, Maui News, Hawaii Tribune Herald, and West Hawaii Today newspapers to announce the public hearing dates date, time and location, and to solicit comments. Additionally, CWRM worked with DLNR's Public Information Office to issue press releases to all major media (print, television/radio) in the week prior to public meetings. Notices were also posted on the CWRM and DLNR websites. Public meetings were held in Lihue, Honolulu, Wailuku, Hilo, and Kona in October and November 2017. The deadline to provide written comments was one week following the respective hearing dates. Comments were accepted via regular mail, fax, and email (dint.cwm/@hawaii.oov).

2. A summary of the public's and small businesses' comments.

There were a total of 10 testimonies in support. There were no testimonies in opposition. Most people who testified took the opportunity to request more enforcement of the State Water Code.

3. A summary of the agency's response to those comments.

Because there were no testimonies in opposition, nor any recommendations or suggestions for further amendments to the rule, we are moving forward with the rule-making process.

4. The number of persons who:

(i) Attended the public hearing: 19 statewide.
(ii) Testified at the hearing: 5 statewide
(iii) Submitted written comments: 0

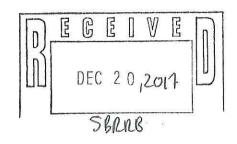
5. Was a request made at the hearing to change the proposed rule in a way that affected small business?

(i) If "Yes" was the change adopted? Yes No √

(ii) If No, please explain the reason the change was not adopted and the problems or negative result of the change.

There were no requests for any changes to the proposed rule amendment.

Small Business Regulatory Review Board / DBEDT
Phone: (808) 586-2594 / Email: <u>DBEDT.sbrrb.info@hawaii.gov</u>
This statement may be found on the SBRRB Website at: http://dbedt.hawaii.gov/sbrrb-impact-statements-pre-and-post-public-hearing



Ramseyer Format 3/23/15

DEPARTMENT OF LAND AND NATURAL RESOURCES

Amendments to Chapters 13-167, 13-168, and 13-169
Hawaii Administrative Rules

(Date of adoption)

- 1. Section 13-167-10, Hawaii Administrative Rules, is amended by amending subsection (b) to read as follows:
- 2. Section 13-168-3, Hawaii Administrative Rules, is amended by amending subsection (a) to read as follows:
- "(a) Any person who violates any provision of this chapter or any permit condition or who fails to comply with any order of the commission may be subject to a fine imposed by the commission. Such fine shall not exceed [\$1,000] \$5,000 per violation. For a continuing offense, each day's continuance is a separate violation." [Eff 5/27/88; am] (Auth: HRS \$174C-8) (Imp: HRS \$174C-15)

- 3. Section 13-169-3, Hawaii Administrative Rules, is amended by amending subsection (a) to read as follows:
- "(a) Any person who violates any provision of this chapter or any permit condition or who fails to comply with any order of the commission may be subject to a fine imposed by the commission. Such fine shall not exceed [\$1,000] \$5,000 per violation. For a continuing offense, each day's continuance is a separate violation." [Eff 5/27/88; am] (Auth: HRS \$174C-8) (Imp: HRS \$174C-15)
- 4. Material, except source notes, to be repealed is bracketed. New material is underscored.
- 5. Additions to update source notes to reflect these amendments are not underscored.
- 6. These amendments to chapters 13-167, 13-168, and 13-169, Hawaii Administrative Rules, shall take effect ten days after filing with the Office of the Lieutenant Governor.

I certify that the foregoing are copies of the rules, drafted in the Ramseyer format, pursuant to the requirements of section 91-4.1, Hawaii Revised Statutes, which were adopted on _______, and filed with the Office of the Lieutenant Governor.

CARTY S. CHANG
Acting Chairperson
Board of Land and Natural
Resources

APPROVED FOR PUBLIC HEARING:

Deputy Attorney General

Small Business Statement "After" Public Hearing To the Small Business Regulatory Review Board

A. To assist the SBRRB in complying with the meeting notice requirement in HRS §92-7, please attach a statement of the topic of the proposed rules or a general description of the subjects involved.

Proposed Amendment to Hawaii Administrative Rules §13-167-10, §13-168-3, and §13-169-3 to Increase the Maximum Fine Amount from \$1,000 to \$5,000.

III. Old Business

- B. Discussion and Action on Proposed Amendments to HAR Title 12, Subtitle 8, Hawaii Occupational Safety and Health Division, promulgated by DLIR, as follows:
 - 1. Part 1, General Legal and Administrative Provisions for Occupational Safety and Health
 - a. Chapter 50, General Provisions and Definitions
 - b. Chapter 52.1, Recording and Reporting Occupational Injuries and Illnesses
 - c. Chapter 56, Program Fees and Library Policies, General Safety and Health Requirements
 - 2. Part 2, General Legal and Administrative Provisions for Occupational Safety and Health
 - a. Chapter 60, General Safety and Health Requirements
 - 3. Part 3, Construction Standards
 - a. Chapter 110, General Safety and Health Requirements
 - Part 5, Occupational Safety and Health Standards for Shipyard Employment
 - a. Chapter 170, Shipyards
 - 5. Part 6, Marine Terminals
 - a. Chapter 180, Marine Terminals
 - 6. Part 7, Safety and Health Regulations for Longshoring
 - a. Chapter 190, Longshoring
 - 7. Part 8, Other Safety and Health Standards
 - a. Chapter 208, Other Safety and Health Standards

PRE-PUBLIC HEARING SMALL BUSINESS IMPACT STATEMENT

TO THE

SMALL BUSINESS REGULATORY REVIEW BOARD
(Hawaii Revised Statutes §201M-2)

NOV 17,2017

Department or Agency: Department of Labor and Industrial Relations (DLIR) Administrative Rule Title and Chapter: Title 12, Chapters 50, 52.1, 56, 60, 110, 170, 180, 190 and 208

Chapter Name: 50 General Provisions and Definitions, 52.1 Recording and Reporting Occupational Injuries and Illnesses, 56 Program Fees and Library Policies, General Safety and Health Requirements (60 and 110), 170 Shipyards, 180 Marine Terminals, 190 Longshoring, 208 Other Safety and Health Standards.

Contact Person/Title:

Nicole G. Bennett, OSH Program Specialist

Phone Number:

586-9081

Email Address:

nicole.g.bennett@hawaii.gov Date: November 16, 2017

- A. To assist the SBRRB in complying with the meeting notice requirement in HRS §92-7, please attach a statement of the topic of the proposed rules or a general description of the subjects involved.
- B. Are the draft rules available for viewing in person and on the Lieutenant Governor's Website pursuant to HRS §92-7? Yes No X (If Yes, please provide webpage address and when and where rules may be viewed in person.)

http://labor.hawaii.gov/hiosh/ 830 Punchbowl St., Rm 423, Honolulu, HI 96813

- I. Rule Description: Amendment, Compilation
- II. Will the rules affect small business? Yes
- * "Affect small business" is defined as "any potential or actual requirement imposed upon a small business ... that will cause a direct and significant economic burden upon a small business, or is directly related to the formation, operation, or expansion of a small business." HRS §201M-1
- * "Small business" is defined as a "for-profit enterprise consisting of fewer than one hundred full-time or part-time employees." HRS §201M-1
- III. Is the proposed rule being adopted to implement a statute or ordinance that does not require the agency to interpret or describe the requirements of the statute or ordinance? No X (If Yes, no need to submit this form.)
 - (e.g., a federally-mandated regulation that does not afford the agency the discretion to consider less restrictive alternatives.) HRS §201M-2(d)
- IV. Is the proposed rule being adopted pursuant to emergency rulemaking? (HRS§201M-2(a)) No

OSHA's analysis found that the sectors with the largest impact (All Other Heavy Construction, Ornamental Shrub and Tree Services, "have cost impacts as a percentage of revenues of only about 0.1 percent each and cost impacts as a percentage of profits of only about 2 percent each. Based on these results, there would be no threat to the economic viability of any affected industry even if the costs of the final rule were nine times higher than OSHA estimated, as the highest cost impact as a percentage of revenues in any affected industry would still be less than 1 percent.

Nationwide, OSHA estimated the total cost of compliance to be \$49.5 million, which would be offset by the benefits of few injuries (118.5), fatalities (19.75), monetized benefits per the injury and fatality prevention (\$179.2 million). Overall, OSHA estimated a net benefit of \$129.7 million annually.

For the <u>Confined Spaces in Construction standard</u>, OSHA estimates that compliance with this new standard will prevent 5.2 fatalities and 780 lost workday injuries each year nationwide. OSHA estimates that the yearly cost of compliance will be \$60.3 million with the safety benefits based on lives saved and injuries prevented to be \$93.6 million. The final results being approximately \$1.55 of benefits for every dollar spent.

OSHA's estimate of the costs and benefits of the <u>Beryllium rule</u> entailed preventing 180 fatalities and 46 cases of chronic beryllium disease annually once the full effects are realized. The OSHA cost estimate is \$73,868,230 and more than offset by the monetized benefits of \$560.900,000 annually, generating a net benefit of \$487,005,194 annually. Using the NAICS Codes, OSHA identified 87 industries affected by the standard. Since Hawaii does not have large scale and heavy manufacturing, foundries, and pulp mills only 27 of the 87 industries have a presence in Hawaii that work with Beryllium.

Falls from heights and on the same level (a working surface) are among the leading causes of serious work-related injuries and deaths. OSHA has issued a final rule on Walking-Working Surfaces and Personal Fall Protection Systems to better protect workers in general industry from these hazards by updating and clarifying standards and adding training and inspection requirements. OSHA's rule affects a wide range of workers, from painters to warehouse workers. It does not change construction or agricultural standards.

The rule incorporates advances in technology, industry best practices, and national consensus standards to provide effective and cost-efficient worker protection. Specifically, it updates general industry standards addressing slip, trip, and fall hazards, and adds requirements for personal fall protection systems. The rule benefits employers by providing greater flexibility in choosing a fall protection system. For example, it eliminates the existing mandate to use guardrails as a primary fall protection method and allows employers to choose from accepted fall protection systems they believe will work best in a particular situation - an approach that has been successful in the construction industry since 1994. In addition, employers will be able to use non-conventional fall protection in certain situations, such as designated areas on low-slope roofs.

As much as possible, OSHA aligned fall protection requirements for general industry with those for construction, easing compliance for employers who perform both types of activities. For example, the final rule replaces the outdated general industry scaffold

If the proposed rule affects small business and are not exempt as noted above, please provide a reasonable determination of the following:

1. Description of the small businesses that will be required to comply with the proposed rules and how they may be adversely affected.

All small businesses that are under the jurisdiction of the Hawaii Occupational Safety and Health Division (HIOSH), including state and local government, private sector businesses that are both non-construction and construction, and certain maritime activities. Primary adverse effect is a small increase in expenses as described below.

2. In dollar amounts, the increase in the level of direct costs such as fees or fines, and indirect costs such as reporting, recordkeeping, equipment, construction, labor, professional services, revenue loss, or other costs associated with compliance.

The <u>Occupational Exposure to Respirable Crystalline Silica standard</u> should not have any additional costs for employers as Hawaii has always maintained a lower permissible exposure limit (PEL) for silica in its standards than the Occupational Safety and Health Administration (OSHA) PEL. The proposed rules do not change the HIOSH PELs.

For the <u>Electric Power Generation</u>, <u>Transmission</u>, and <u>Distribution standard OSHA</u> believes that the adoption of the requirements will have little impact on the regulated community since almost all employers are already complying with the requirements. OSHA expects that the average increase in prices necessary for small firms to offset the compliance costs to be 0.039 %. In Hawaii, this may affect small construction firms hired by utilities to provide construction for facilities.

The final OSHA rule affects establishments in a variety of different industries involving electric power generation, transmission, and distribution. The rule primarily affects firms that construct, operate, maintain, or repair electric power generation, transmission, or distribution installations. These firms include electric utilities, as well as contractors hired by utilities and primarily classified in the construction industry.

OSHA last issued rules for the construction of transmission and distribution installations in 1972. Those provisions are now out of date and inconsistent with the more recently promulgated general industry standard covering the operation and maintenance of electric power generation, transmission, and distribution lines and equipment. OSHA is revising the construction standard to make it more consistent with the general industry standard and is making some revisions to both the construction and general industry requirements.

The final rules for general industry and construction include new or revised provisions on host employers and contractors, training, job briefings, fall protection, insulation and working position of employees working on or near live parts, minimum approach distances, protection from electric arcs, deenergizing transmission and distribution lines and equipment, protective grounding, operating mechanical equipment near overhead power lines, and working in manholes and vaults. The revised standards will ensure that employers, when appropriate, must meet consistent requirements for work performed under the construction and general industry standards.

standards with a requirement that employers comply with OSHA's construction scaffold standards.

OSHA estimated that compliance would costs employers \$305 million nationwide, offset by a benefit of \$614.5 million, for a net benefit of \$309.5 million. The benefit was derived by preventing injuries (5,842 fewer lost workdays) and fatalities (29).

If the proposed rule imposes a new or increased fee or fine:

a. Amount of the current fee or fine and the last time it was increased.

12-56-2 Certified safety and health professional last updated 2/8/1997:

- application fee of \$50
- certification fee of \$300
- renewal fee of \$100

12-56-4(a) Certificate of fitness (explosives) last updated 3/29/99:

- application fee of \$150
- renewal fee for certificate of fitness of \$50

12-56-5 HIOSH sponsored workshops fee of \$5, last updated 2/8/1997.

b. Amount of the proposed fee or fine and the percentage increase.

12-56-2 Certified safety and health professional:

- application fee of \$75 = 50% increase
- certification fee of \$460 = 53% increase
- renewal fee of \$150 = 50% increase

12-56-4(a) Certificate of fitness (explosives):

- application fee of \$225 = 50% increase
- renewal fee for certificate of fitness of \$75 = 50% increase

12-56-5 HIOSH sponsored workshops fee of \$10 = 100% increase

c. Reason for the new or increased fee or fine.

Update of the current fees to reflect the current cost of labor and supplies required to complete these requests.

d. Criteria or methodology used to determine the amount of the fee or fine (i.e., Consumer Price Index, Inflation rate, etc.).

BLS Consumer Price Index

3. The probable monetary costs and benefits to the agency or other agencies directly affected, including the estimated total amount the agency expects to collect from any additionally imposed fees and the manner in which the moneys will be used.

The money collected for the fees in Chapter 56 go into the general fund and not to HIOSH. DLIR does not anticipate any increased costs or direct benefits to HIOSH, other than maintaining conformity with federal standards and the attendant funding.

The required adoption of the federal standards via the rules helps ensure that the federal government continues to fund 50% of the Health, Safety and Administrative & Technical Support Branches and 90% of the Consultation & Training Branch of HIOSH in both the short and long-term. HIOSH's federal funds provided for by OSHA are budgeted at \$1,987,800 in FY2017-2018.

- 4. The methods the agency considered or used to reduce the impact on small business such as consolidation, simplification, differing compliance or reporting requirements, less stringent deadlines, modification of the fines schedule, performance rather than design standards, exemption, or other mitigating techniques.
- 5. The availability and practicability of less restrictive alternatives that could be implemented in lieu of the proposed rules.
- 6. Consideration of creative, innovative, or flexible methods of compliance for small businesses. The businesses that will be directly affected by, bear the costs of, or directly benefit from the proposed rules.

Less restrictive alternatives and other methods of compliance for small business were not explored as the proposed changes conform state standards to federal ones. The proposed amendments bring the HIOSH standards into conformity with the federal OSHA standards. The Occupational Safety and Health Act of 1970 permits states to operate their own occupational safety and health programs so long as the development and enforcement of safety and health standards are "...at least as effective in providing safe and healthful employment or places of employment..." as the OSHA standards.

7. How the agency involved small business in the development of the proposed rules.

Small businesses were not involved in the proposed changes because the proposed changes are required by OSHA. The Occupational Safety and Health Act of 1970 permits states to operate their own occupational safety and health programs so long as the development and enforcement of safety and health standards are "...at least as effective in providing safe and healthful employment or places of employment..." as the OSHA standards. Other changes include fixing typographical errors and updating the fees for certain activities under Chapter 56 using the CPI.

8. Whether the proposed rules include provisions that are more stringent than those mandated by any comparable or related federal, state, or county standards, with an explanation of the reason for imposing the more stringent standard.

There are no standards being amended that are more stringent than those mandated by any comparable or related federal, state or county standards.

Small Business Regulatory Review Board / DBEDT Phone: (808) 586-2594 Email: DBEDT.sbrrb.info@hawaii.gov

This Statement may be found on the SBRRB Website at:

http://dbedt.hawaii.gov/sbrrb/small-business-impact-statements-pre-and-post-public-hearing/

Equal Opportunity Employer/Program

Auxiliary aids and services are available upon request to individuals with disabilities.

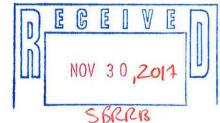
TDD/TTY Dial 711 then ask for (808) 586-8866.

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

Amendment and Compilation of Chapters 12-50, 12-52.1, 12-56, 12-60, 12-110, 12-170, 12-180, 12-190, and 12-208

Hawaii Administrative Rules

(Date of Adoption)



1. Chapter 12-50, Hawaii Administrative Rules, entitled "General Provisions and Definitions", is amended and compiled to read as follows:

"HAWAII ADMINISTRATIVE RULES

TITLE 12

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISION

PART 1

GENERAL, LEGAL, AND ADMINISTRATIVE PROVISIONS FOR OCCUPATIONAL SAFETY AND HEALTH

CHAPTER 50

GENERAL PROVISIONS AND DEFINITIONS

Application Definitions
Use of existing equipment
Sufficiency of safeguards
Minimum standards
Computation of time
Repealed
Repealed
Repealed
Personal protective equipment

Historical Note: Chapter 50 of title 12 is based upon chapter 101 of the Hawaii Occupational Safety and Health Standards, Rules and Regulations. [Eff 7/11/74; am 6/7/76; am 12/30/76; am 8/22/77; am 8/11/78; am 8/23/79; R 7/12/82]

\$12-50-1 Application. This part contains
Occupational Safety and Health Administrative rules,
which apply to parts 1 through 8. Part 2 applies to
all industries in all work environments, except that
audiometric testing in 29 C.F.R. \$1910.95 does not
apply to construction work unless employees are
exposed to an [8-hour] eight-hour time weighted
average of ninety [90] (90) dBA and above. Part 3
applies only to construction. [Eff 7/12/82; am
8/15/87; am 11/16/96; am 2/14/00; am 5/21/04; am
2/13/12; am and comp] (Auth: HRS
\$396-4) (Imp: HRS \$396-4)

§12-50-2 Definitions. As used in parts 1 to 8, chapters 50 through [209:] 208:

"Accessory structure" means a structure not greater than 3,000 square feet $(279\mathrm{m}^2)$ in floor area, and not over two stories in height, the use of which

is customarily accessory to and incidental to that of the dwelling(s) and which is located on the same lot.

"Administrator" means the administrator, division of occupational safety and health, department of labor and industrial relations, State of Hawaii.

"Affected employee" means an employee affected by the grant or denial of a variance, and includes any one of the employee's designated representatives.

"Appeals board" means the Hawaii labor [and industrial] relations [appeals] board, department of labor and industrial relations.

"Assistant secretary" means, for [the purpose of] title 12, subtitle 8, parts 1 to 8, the director of the department of labor and industrial relations or the [director's] director's designee.

"Attorney general" means the attorney general of the State of Hawaii.

"Authorized person" means a person approved or assigned by the employer to perform a specific type of duty or to be at a specific location at the jobsite.

"Citation" means any order of the department of labor and industrial relations to correct a violation of the law, of any standard, rule, or order promulgated pursuant to the law, or of any substantive rule published in [these chapters] this part.

"Competent person" means one who is capable of identifying existing or predicting development of hazards in the surroundings or working conditions which are unhealthy, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate the hazards.

"Compulsory process" means the institution of any action, including ex parte application for an inspection warrant or its equivalent.

"Construction" or "construction work" means work for construction, alteration, demolition, or repair including painting and decorating, erection of new electric transmission and distribution lines and equipment, and the alteration, conversion, and improvement of the existing transmission and distribution lines and equipment.

"Department" or "DLIR" means the department of labor and industrial relations, State of Hawaii.

"Designated representative" means any individual or organization to whom an employee gives written authorization to exercise that employee's rights under parts 1, 2, 3, and 8. A recognized or certified collective bargaining agent shall be treated automatically as a designated representative without regard to written employee authorization.

"Director" means the director of the department of labor and industrial relations or the director's designee.

"Division" [or "HIOSH"] means the occupational safety and health division, department of labor and industrial relations, State of Hawaii.

"Dwelling" means any building that contains one or two dwelling units used, intended, or designed to be built, used, rented, leased, let or hired out to be occupied, or that are occupied for living purposes.

"Dwelling unit" means a single unit providing complete independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking, and sanitation.

"Employee" means every natural person who is required, directed, permitted, or suffered by any employer to engage in any employment, to go to work, or be at any time in any place of employment. The term can mean a former [employ] employee in the case of potential exposures to toxic materials or harmful physical agents.

"Employee of the State" means officers and employees of the department of labor and industrial relations, and persons acting in behalf of the department in an official capacity, whether temporarily or with or without compensation.

"Employer" means the State and every [State]

state agency; each county and all public and quasipublic corporations and public agencies; every person

[which] that has any natural person in service; the
legal representative of any deceased employer; or
every person having direction, management, control, or
custody of any employment, place of employment, or any

employee. Where potential exposures to toxic materials or harmful physical agents are, may have been present or are likely to be present in the future, the term applies to current employers, former employers, or successor employers.

"Employment" means the carrying on of any trade, business, occupation, or work, including all excavation, demolition, and construction work, or any process or operation in any way related thereto, in which any person is engaged to work for hire except domestic service in or about a private home.

"Establishment" means a single physical location where business is conducted or where services of industrial operations are performed; for example, a factory, mill, store, hotel, restaurant, movie theatre, farm, ranch, bank, sales office, warehouse, or central administrative office.

"First aid" means any one-time treatment, and any follow-up visit for the purpose of observation, of minor scratches, cuts, burns, splinters, and so forth, which do not ordinarily require medical care; one-time treatment and a follow-up visit for the purpose of observation are considered first aid even though provided by a physician or registered professional personnel.

"Gravity of violation" means the basis for calculating the basic penalty for violations. The assessments are made on the severity of the injury or illness which could result from the alleged violation and the probability that an injury or illness could occur [as a result] because of the alleged violation.

"Hawaii Revised Statutes" or "HRS" means laws enacted by the Hawaii State legislature.

"HIOSH" means the occupational safety and health division, department of labor and industrial relations, State of Hawaii.

"Infeasible" means that it is impossible to perform the work using all available means and methods or that it is technologically impossible to use safety equipment or safe practices.

"Inspection" means any inspection of an employer's factory, plant, establishment, construction

site, or other area, workplace, or environment where work is performed by an employee of an employer; this includes any inspection conducted pursuant to a complaint filed under section 12-51-11(a) and [section 12-51-11(c)] (c), any reinspection, follow-up inspection, accident investigation, or other inspection conducted under the law.

"Law" means chapter 396, HRS, the Hawaii Occupational Safety and Health Law.

"Lost time case" means a nonfatal traumatic injury that causes any loss of time from work beyond the day or shift it occurred, or a nonfatal [nontraumatic] non-traumatic [illness/disease] illness or disease that causes disability at any time.

"Lost workdays" means number of days (consecutive or not) after, but not including, the day of injury or illness during which the employee would have worked but could not do so; that is, could not perform all or any part of the normal assignment during all or any part of the workday or shift, because of the occupational injury or illness.

"Medical treatment" means treatment administered by a physician or by registered professional personnel under the standing orders of a physician but does not include first aid treatment even though provided by a physician or registered professional personnel.

"Nationally recognized testing laboratories" means those laboratories listed by the $[rac{U.S.}{S.}]$ Department of Labor, Occupational Safety and Health Administration.

"Occupational Safety and Health standard" means a standard which requires conditions, or the adoption or use of one or more practices, means, methods, operations, or processes, reasonably necessary or appropriate to provide safe or healthful employment and places of employment.

"Order" means a command to perform a mandatory act issued by the department.

"OSHA" means, for [the purpose of] title 12, subtitle 8, Hawaii occupational safety and health division, department of labor and industrial relations, State of Hawaii.

"OSHA's designee" means, for [the purpose of] title 12, subtitle 8, the director of the department of labor and industrial relations or the director's designee.

"Party" means a person admitted to participate in a hearing conducted in accordance with subchapter 3 of chapter 12-53; an applicant for relief and any affected employee is entitled to be named parties; the department, represented by the attorney general, is a party without the necessity of being named.

"Person" means an individual, partnership, association, corporation, business trust, legal representative, an organized group of individuals, or an agency, authority, or instrumentality of the State or its political subdivisions.

"Personally identifiable employee medical information" means employee medical information accompanied by either direct identifiers (name, address, social security number, payroll number, etc.) or by information which could reasonably be used in the particular circumstances indirectly to identify specific employees, e.g., exact age, height, weight, race, sex, date of initial employment, job title, etc.

"Place of employment" means any place, and the premises appurtenant thereto, where employment is carried on.

"Qualified" means one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated [his] the ability to solve or resolve problems relating to the subject matter, the work, or the project.

"Recordable occupational injuries or illnesses" means any occupational injuries or illnesses which result in:

- (1) Fatalities, regardless of the time between the injury and death, or the length of the illness; [Or]
- (2) Lost workday cases, other than fatalities, that result in lost workdays; or
- (3) Nonfatal cases without lost workdays which result in transfer to another job or

termination of employment, medical treatment (other than first aid), loss of consciousness, or restriction of work or motion which includes any diagnosed occupational illnesses reported to the employer but are not classified as fatalities or lost workday cases.

"Residential construction" means construction work on detached one- and two-family dwellings and townhouses not more than three stories above grade plane in height with a separate means of egress and their accessory structures.

"Rule" means each section in the State of Hawaii Occupational Safety and Health rules and standards, adopted under chapter 396, HRS, and includes any "rule" and "occupational safety and health standard".

"Safe and safety" as applied to an employment or place of employment means such freedom from danger to employees as the nature of the employment reasonably permits.

"Safety and health compliance officers" means occupational safety and health officers and environmental health specialists assigned within the department to inspection and enforcement duties.

"Safety device" and "safeguard" means any practicable method of mitigating or preventing a specific danger.

"Severity assessment" means an assessment assigned to a hazard to be cited according to the serious injury or illness [which] that could reasonably be expected to result from an employee's exposure as follows:

- (1) High severity death from injury or illness; injuries involving permanent disability; or chronic, irreversible illnesses [-];
- (2) Medium severity injuries or temporary reversible illnesses resulting in hospitalization or a variable but limited period of disability[-];
- (3) Low severity injuries or temporary, reversible illnesses not resulting in

- hospitalization and requiring only minor supportive treatment [-]; and
- (4) Minimal severity conditions which have a direct and immediate relationship to the safety and health of employees, the injury or illness most likely to result would probably not cause death or serious physical harm.

"Shall" means mandatory.

"Substantial" means constructed of such strength, material, design, and workmanship that the object referred to will withstand all normal wear, shock, and usage.

"Townhouse" means a single-family dwelling unit constructed in a group of three or more attached units in which each unit extends from foundation to roof and with a yard or public way [in a] on at least two sides. [Eff 7/12/82; am 8/15/87; am 3/22/91; am 1/26/96; am 7/10/97; am 10/23/97; am 7/6/98; am 3/23/01; am 1/10/03; am 2/13/12; am and comp

[(Auth: HRS §396-4) (Imp: HRS §396-4)

\$12-50-3 Use of existing equipment. Nothing in these rules shall prevent the use of existing equipment during its lifetime, if it is safeguarded properly, maintained in good condition, and conforms to factors of safety. [Eff 7/12/82; am 8/15/87; comp] (Auth: HRS \$396-4) (Imp: HRS \$396-4)

\$12-50-4 Sufficiency of safeguards. The director may require safeguards not required in these standards if a sufficient hazard exists to warrant this action. The final determination of the sufficiency of any safeguard rests with the director. [Eff 7/12/82; am 8/15/87; comp]

(Auth: HRS \$396-4) (Imp: HRS \$396-4)

\$12-50-5 Minimum standards. These rules establish minimum standards applying to all employment and places of employment in Hawaii as defined by chapter 396, HRS. [Eff 7/12/82; comp]
(Auth: HRS \$396-4) (Imp: HRS \$396-4)

- \$12-50-6 Computation of time. (a) The time in which any act required by these rules is computed by excluding the first day and including the last, except for the computation of the number of days a violation continued unabated. If the last day falls on a Saturday, Sunday, or legal holiday, it is also excluded.
- (b) The number of days a violation continues to be unabated shall be computed from the day following the abatement date specified in the citation or the final order. It shall include all calendar days between that date and the date of reinspection, excluding the date of reinspection. [Eff 7/12/82; am 8/15/87; comp] (Auth: HRS §396-4) (Imp: HRS §396-4)

\$12-50-7 REPEALED. [R 3/29/99]

\$12-50-8 REPEALED. [R 3/29/99]

§12-50-9 REPEALED. [R 2/13/12]

§12-50-10 [(a)] Personal protective equipment.

(a) Standards in this part requiring the employer to provide personal protective equipment (PPE), including respirators and other types of PPE, because of hazards

to employees impose a separate compliance duty with respect to each employee covered by the requirement. The employer must provide PPE to each employee required to use the PPE, and each failure to provide PPE to an employee may be considered a separate violation.

(b) Training. Standards in this part requiring training on hazards and related matters, such as standards requiring that employees receive training or that the employer train employees, provide training to employees, or institute or implement a training program, impose a separate compliance duty with respect to each employee covered by the requirement. The employer must train each affected employee in the manner required by the standard, and each failure to train an employee may be considered a separate violation." [Eff 7/12/09; am and comp

] (Auth: HRS §396-4) (Imp: HRS

\$396-4)

2. Chapter 12-52.1, Hawaii Administrative Rules, entitled "Recording and Reporting Occupational Injuries and Illnesses", is amended and compiled to read as follows:

"HAWAII ADMINISTRATIVE RULES

TITLE 12

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISON

PART 1

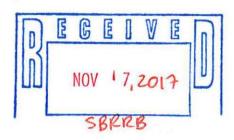
GENERAL, LEGAL, AND ADMINISTRATIVE PROVISIONS FOR OCCUPATIONAL SAFETY AND HEALTH

CHAPTER 52.1

RECORDING AND REPORTING OCCUPATIONAL INJURIES AND ILLNESSES

\$12-52.1-1 State amendments to 29 C.F.R. \$1904 \$12-52.1-2 Incorporation of federal standard

Historical Note: Chapter 12-52.1 is based
substantially upon chapter 12-52. [Eff 7/12/82;



§12-52.1-1

am 5/28/83; am 8/15/87; am 9/30/94; am 2/8/97; am 7/10/97; am 7/6/99; R 12/29/01]

\$12-52.1-1 State amendments to 29 C.F.R. \$1904.

(a) 29 C.F.R. \$1904.1(a)(1) is amended to read as follows:

Basic requirement. (1) If your company had ten (10) or fewer employees at all times during the last calendar year, you do not need to keep OSHA injury and illness records unless HIOSH, OSHA, or the Bureau of Labor and Statistics (BLS) informs you in writing that you must keep records under 29 C.F.R. \$1904.37, \$1904.41, or \$1904.42. However, as required by 29 C.F.R. \$1904.39 all employers covered by chapter 396, HRS, Hawaii Occupational Safety and Health Law, must report to HIOSH any workplace incident that results in an employee fatality or the inpatient hospitalization of an employee, employee's amputation, employee's loss of an eye, or property damage [in excess of] greater than \$25,000.

- (b) 29 C.F.R. §1904.2(a)(1) is amended to read as follows:
- (a) Basic requirement. (1) If your business establishment is classified in a specific low hazard retail, service, finance, insurance, or real estate industry listed in Appendix A, titled "Non-Mandatory Appendix A to Subpart B Partially Exempt Industries", dated March 17, 2017, which is made part of this [chapter] section and located at the end of this [chapter,] section, you do not need to keep OSHA injury and illness records unless the government asks you to keep records under 29 C.F.R. \$1904.37, \$1904.41, or \$1904.42. However, all employers must report to HIOSH any workplace incident that results in an employee fatality or the inpatient hospitalization of an employee, employee's amputation, employee's loss of an eye, or property

damage $[\frac{\text{in excess of}}{\text{c.f.R. }}]$ greater than \$25,000 (see 29 C.F.R. \$1904.39(a)).

- (c) 29 C.F.R. \$1904.29(b)(2) is amended to read as follows:
- (2) What do I need to do to complete an OSHA 301 Incident Report? You must complete an OSHA 301 Incident Report form, or an equivalent form that contains the same information required on the OSHA 301 Incident Report form, for each recordable injury or illness that is required to be entered on the OSHA 300 Log.
- (d) 29 C.F.R. \$1904.37 (c) is added to read as follows:
- (c) If you receive an OSHA occupational injury and illness data collection form or any other type of injury and illness survey authorized by HIOSH, you must respond to the survey or request, and return it to the designated recipient within the specified time limit.
- (e) 29 C.F.R. \$1904.39(a) is amended to read as follows:
- (a) Basic requirement. Within eight (8) hours after the death of any employee from a work-related incident, and within twenty-four (24) hours of the inpatient hospitalization of an employee, employee's amputation, employee's loss of an eye as a result of a work-related incident, or property damage in excess of \$25,000 as a result of a work-related incident, you must orally report the fatality, inpatient hospitalization, amputation, loss of an eye, or property damage by telephone, (808) 586-9102, or in person at the HIOSH office in Honolulu.
- (f) 29 C.F.R. §1904.39(b)(1) is amended to read as follows:
- (b) Implementation. (1) If the HIOSH office is closed, may I report the incident by leaving a message on HIOSH's answering machine, faxing the area office, or sending an e-mail? When the HIOSH office is closed,

the (808) 586-9102 telephone number will allow you to leave a phone message. In order for the message to be considered officially reported, all of the information in [1904.39(b)(2)] 29 C.F.R. §1904.39(b)(2) must be provided on the answering machine message.

- (g) 29 C.F.R. \$1904.39(b)(11) is amended to read as follows:
- (11) How does HIOSH define "amputation"? An amputation is the traumatic loss of a limb or other external body part. Amputations include a part, such as a limb or appendage, which has been severed, cut off, amputated (either completely or partially); fingertip amputations with or without bone loss; medical amputations resulting from irreparable damage; and amputations of body parts that have since been reattached.
- (h) 29 C.F.R. §1904 Non-Mandatory Appendix A to Subpart B Partially Exempt Industries is amended for the duration of the HIOSH Strategic Plan. The industries with NAICS codes 4812, 4879, and 4885 have been included in the HIOSH Strategic Plan and will continue to be required to maintain the injury and illness log for the duration of HIOSH's Strategic Plan unless the establishment has less than eleven (11) employees. 29 C.F.R. §1904 Non-Mandatory Appendix A to Subpart B Partially Exempt Industries is amended to read as follows:

Employers are not required to keep OSHA injury and illness records for any establishment classified in the following North American Industry Classification System (NAICS) codes, unless they are asked in writing to do so by OSHA, the Bureau of Labor Statistics (BLS), or a state agency operating under the authority of OSHA or the BLS. All employers, including those partially exempted by [reason of] company size or industry classification, must report to OSHA any workplace incident that results in a fatality, the inpatient hospitalization, amputation, or loss of an eye of an employee (see 29 C.F.R. \$1904.39).

Non-Mandatory Appendix A to Subpart B-Partially Exempt Industries

March 17, 2017

NAICS	INDUSTRY DESCRIPTION	NAICS	INDUSTRY
CODE	INDUSTRI DESCRIFTION	CODE	DESCRIPTION
4431	Electronics and	5259	Other Investment
4431	Appliance Stores	3233	Pools and Funds
4461	Health and Personal	5331	Lessors of
4461	Care Stores	3331	Nonfinancial
4471	Gasoline Stations		Intangible
4471	Clothing Stores		Assets (except
4482	Shoe Stores		Copyrighted
4482	Jewelry, Luggage,		Works).
4483	and Leather Goods	5411	Legal Services
	Stores	5412	Accounting, Tax
4511	Sporting Goods,	2412	Preparation,
4511	Hobby, and Musical	00	Bookkeeping,
	Instrument Stores		and Payroll
4512	Book, Periodical,	5413	Services
4512	and Music Stores	3413	Architectural,
4531	Florists		Engineering,
4531	Office Supplies,	5414	and Related
4532	Stationary, and	Dara	Services
	Gift Stores	5415	Specialized
5121	Motion Picture and	Jarj	Design Services
5121	Video Industries		Computer Systems
5122	Sound Recording	5416	Design and
3122	Industries	3410	Related
5151	Radio and Television		Services
3131	Broadcasting		Management,
5172	Wireless		Scientific, and
51/2	Telecommunications	5417	Technical
	Carriers (except	0 4-7 1 1	Consulting
ia la	Satellite).		Services
5179	Other	5418	Scientific
J113	Telecommunications		Research and
5182	Data Processing,	5511	Development
3102	Hosting, and		Services
	Related Services		Advertising and
5191	Other Information		Related
0171	Services		Services
	DOLVIOOD		

	Depository Credit		Management of
5001	Intermediation	5615	Companies and
5221		3613	Enterprises
5000	Nondepository Credit		Travel
5222	Intermediation	5616	Arrangement and
45-728-7-1-752-7	Activities Related	2010	Reservation
5223	to Credit	6111	
	Intermediation	6111	Services
Successive Seattlean	Securities and		Investigation
5231	Commodity Contracts	6112	and Security
	Intermediation and	6113	Services
	Brokerage		Elementary and
	Securities and		Secondary
5232	Commodity Exchange		Schools
	Other Financial	6114	Junior College
5239	Investment		Colleges,
	Activities		Universities,
5241	Insurance Carriers		and
5242	Agencies,	6115	Professional
250,000	Brokerages, and		Schools
	Other Insurance	6116	Business Schools
5251	Related Activities		and Computer
100	Insurance and	6117	and Management
	Employee Benefit		Training
	Funds	6211	Technical and
			Trade Schools
		6212	Other Schools
		6213	and Instruction
			Educational
			Support
		6214	Services
			Offices of
1		6215	Physicians
		0213.	Offices of
			Dentists
			Offices of Other
			Health
			Practitioners
			Outpatient Care
			1
			Centers Medical and
			The second control of
			Diagnostic
			Laboratories

[Eff 12/29/01; am 4/29/02; am 1/10/03; am 2/19/17; am and comp] (Auth: HRS \$396-4) (Imp: HRS \$396-4)

3. Chapter 12-56, Hawaii Administrative Rules, entitled "Program Fees and Library Policies", is amended and compiled to read as follows:

"HAWAII ADMINISTRATIVE RULES

TITLE 12

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISION

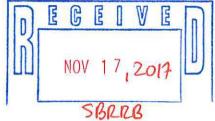
PART 1

GENERAL LEGAL AND ADMINISTRATIVE PROVISIONS FOR OCCUPATIONAL SAFETY AND HEALTH

CHAPTER 56

PROGRAM FEES AND LIBRARY POLICIES

§12-56-1	Purpose and scope
§12-56-2	Safety and health professionals
§12-56-3	Public notices for variances
§12-56-4	Explosives
§12-56-5	Training materials
§12-56-6	Repealed
	The state of the s



- \$12-56-2 Safety and health professionals. (a) Any individual submitting an application to the director to become a certified safety and health professional in accordance with section $[\frac{12-50-7}{7}]$ $\frac{12-58-2}{58-2}$ shall pay an application fee of $[\frac{$50,}{$}]$ $\frac{$75,}{$}$ and upon acceptance, shall pay a certification fee of $[\frac{$300.}{$}]$ $\frac{$460.}{$}$ Any certified individual may apply for renewal of the certificate by paying a fee of $[\frac{$100.}{$}]$ \$150.
- (b) All fees shall be nonrefundable. [Eff 2/8/97; am and comp] (Auth: HRS \$396-4) (Imp: HRS \$\$396-4, 396-5.1)
- \$12-56-4 Explosives. (a) Certificate of fitness.
 - (1) Individuals applying for a certificate of fitness shall pay an examination fee of [\$150] \$225.

- (2) The renewal fee for a certificate of fitness shall be [\$50] \$75 and shall be paid at the time of renewal.

§12-56-5 Training materials. Participants of HIOSH sponsored workshops shall pay a nonrefundable fee of [\$5] \$10 to cover the cost of the materials provided." [Eff 2/8/97; am and comp (Auth: HRS \$396-4) (Imp: HRS \$396-4, 396-5.1)

§12-56-6 REPEALED. R 11/2/12

4. Chapter 12-60, Hawaii Administrative Rules, entitled "General Safety and Health Requirements", is amended and compiled to read as follows:

"HAWAII ADMINISTRATIVE RULES

TITLE 12

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISION

PART 2

GENERAL LEGAL AND ADMINISTRATIVE PROVISIONS FOR OCCUPATIONAL SAFETY AND HEALTH

CHAPTER 60

GENERAL SAFETY AND HEALTH REQUIREMENTS

§12-60-1	Application
\$12-60-2	Safety and health programs
\$12-60-3	Employee responsibilities
§12-60-4	Removal of safety devices
\$12-60-5	Use of intoxicants or drugs
\$12-60-6	Requirements of competence
\$12-60-7	Requirement of quality



\$12-60-50

§\$12-60-8 to 12-60-49 (Reserved) \$12-60-50 Standards

<u>Historical Note:</u> Chapter 60 of title 12 is based upon chapter 201 of the Hawaii Occupational Safety and Health Standards, Rules and Regulations. [Eff 7/11/74; am 6/7/76; am 12/30/76; am 8/22/77; R 12/6/82]

- \$12-60-2 Safety and health programs. (a) Scope and application. This [standard] section shall apply to all employers with employees doing business in the State.
 - (1) Every employer shall comply with the state laws, standards, and rules regarding a safe place of employment and safe practices, and shall do everything reasonable and necessary to protect the life, safety, and health of the employees.
 - (2) Employers involved with construction or related activities shall provide safe and healthful work places and practices that protect the employees and the affected general public as well.
 - (3) Every employer shall provide safe work places and practices by elimination or reduction of existing or potential hazards. Elimination of existing or potential hazards

by design, process substitution, or other appropriate methods is preferred because it eliminates the need for further employee protection. When elimination is not feasible, reduction of existing or potential hazards to acceptable levels, using methods such as engineering or administrative controls, isolation, or guarding, shall be promptly used. When these methods are inadequate to reach acceptable levels, personal protective equipment shall be provided and used.

[Exception:] Exception: Employers with less than [25] twenty-five (25) employees need not comply with subsection (b) (1) [below].

- (b) Employer duties and responsibilities. An employer subject to this standard shall meet the following requirements:
 - (1) Written safety and health program.
 - (A) The employer shall institute and maintain an effective safety and health program to identify, evaluate, and control workplace hazards. Employer safety and health programs which were developed prior to the promulgation of this [standard] section may be used to satisfy this requirement so long as they meet the criteria for an acceptable program set forth in subparagraph (B) [below].
 - (B) The program should:
 - (i) Set forth policies, procedures, and practices that recognize and protect employees from occupational safety and health hazards.
 - (ii) Establish and communicate a clear
 goal for the safety and health
 program and the mechanisms [which]
 that will be utilized in meeting
 this goal.

- (iii) Provide for visible top management leadership in implementing the program and ensure that all workers at the site, including contract workers, are provided equally high quality safety and health protection, so that all workers will understand that management's commitment is serious.
 - (iv) Provide for and encourage employee involvement in the structure and operation of the program and in decisions that affect their safety and health, so that they will commit their insight and energy to achieving the safety and health program's goal and objectives. Involvement shall be accomplished through employee collective bargaining units, where appropriate.
 - (v) Assign and communicate responsibilities for all aspects of the safety and loss prevention program to managers, supervisors, and employees so that they all know and understand what is expected of them in the implementation of the program.
 - (vi) Provide a system to hold managers, supervisors, and employees accountable for their responsibilities under the safety and health program.
- (vii) Provide a reliable system for employees to notify management personnel or safety and health committee members of conditions that appear hazardous or of [non-compliance] noncompliance with the terms of the safety and health

program without fear of reprisal and provide a mechanism to ensure timely and appropriate responses to correct these conditions.

- (viii) Provide a mechanism to investigate accidents and "near miss" incidents, so that the root cause and means for preventing a recurrence are identified. For the purposes of this [rule,] section, the term "accident" means any unexpected happening that interrupts the work sequence or process and that may result in injury, illness, or property damage.
 - (ix) Provide a means to review injury and illness trends over time, so that patterns with common causes [can be] are identified and eliminated.
 - (x) Establish a mechanism for the employer to conduct ongoing, periodic in-house safety and health inspections so that new or previously missed hazards or failures in controls are identified. Inspections shall be conducted with a frequency necessary to be effective.
 - (xi) Address the impact of emergency situations and develop written plans and procedures to insure employee safety during emergencies. For the purpose of this [standard,] section, the term "emergency situation" means an unforeseen single event or combination of events that calls for immediate action to prevent, control or contain injury or

illness to person or damage to property.

- (xii) Establish procedures for transmitting and enforcing safe work practices in the workplace through training, positive reinforcement, as a reward system, public recognition, etc., correction of unsafe performance, and, if necessary, reinforcement of work practices through a clearly defined and communicated disciplinary system.
- (C) The program shall be made available to the employees or their collective bargaining agent or both, upon request.
- (2) Safe work practices.
 - (A) The employer shall eliminate or control all existing and potential hazards within the workplace in a timely manner, using one or more of the following:
 - (i) Engineering and work practice controls designed to control employee exposures to safety and health hazards by modifying the source to reduce exposure.
 - (ii) Administrative controls designed to control employee exposure to safety and health hazards.
 - (iii) Requirements for the distribution and proper use of personal protective equipment.
 - (iv) A program of medical examinations or evaluations conducted by a qualified physician or health practitioner when required by a standard.
 - (B) The employer shall ensure that practices are understood by all employees and are underscored through training, positive reinforcement,

correction of unsafe performance, and, if necessary, through a clearly defined and communicated disciplinary system.

- (3) Periodic inspections. The employer shall conduct periodic in-house safety and health inspections so that new or previously missed hazards or failures in engineering, work practice, and administrative controls are identified. The in-house inspections will be conducted by individuals who are trained to recognize hazardous conditions, as members of the safety and health committee or a person designated and trained by the employer for the facility's safety and health program.
- (4) Safety and health training.
 - (A) The employer shall develop and institute a safety and health training program for all employees so they have an understanding of the hazards to which they may be exposed, and the procedures or practices needed to protect them from these hazards.
 - (B) In addition, supervisors and managers shall be trained in the elements of the employer's safety and health program and in the specific responsibilities assigned to them under the program.
 - (C) The employer shall ensure that the supervisors and managers understand their responsibilities under the safety and health program and their importance to the safety and health of the workplace. In particular, the training for managers and supervisors shall enable them to:
 - (i) Recognize potential hazards;
 - (ii) Maintain safety and health protection in the work area; and
 - (iii) Reinforce employee training on the nature of the potential hazards and required protective measures.

- (c) The use of any machinery, tool, material, or equipment which is not in compliance with any applicable requirement of these standards is prohibited. The machine, tool, material, or equipment shall either be identified as unsafe by tagging or locking the controls to render them inoperable or shall be physically removed from its place of operation.
- (d) The employer shall permit only those employees qualified by training or experience to operate equipment and machinery.
- (e) For procedures in reporting accidents, consult [section 12-52-8.] chapter 12-52.1.
- (f) All safety devices and safeguards in use shall be kept sound and operable.
- \$12-60-3 Employee responsibilities. The employee shall not knowingly perform work in an unsafe manner or in an unsafe environment without the safeguards provided for in these standards. The employee shall not tamper with or render ineffective any safety device or safeguard and shall use the safety devices provided for personal protection. [Eff 12/6/82; comp] (Auth: HRS \$396-4) (Imp: HRS \$396-4)

- \$12-60-4 Removal of safety devices. No person shall remove, displace, damage, destroy, or carry off any safety device, safeguard, notice, or warning furnished for use in any employment or place of employment. [Eff 12/6/82; comp]

 (Auth: HRS \$396-4) (Imp: HRS \$396-4)
- §12-60-5 Use of intoxicants or drugs. The use of intoxicants or harmful drugs while on duty is prohibited. No person shall be permitted to work under the influence of liquor or drugs and shall be removed from the work premises if found under the influence of liquor or drugs. [Eff 12/6/82; comp] (Auth: HRS §396-4) (Imp: HRS §396-4)
- \$12-60-6 Requirements of competence. When work is to be performed by or under the supervision of a designated person, that person shall have the degree of competence necessary to perform or direct the work in a safe manner. [Eff 12/6/82; comp]

 (Auth: HRS \$396-4) (Imp: HRS \$396-4)

[\$12-60-8 thru] \$\$12-60-8 to 12-60-49 RESERVED.

§12-60-50 Standards. (a) Incorporation of federal standard. Title 29, Part 1910 of the Code of Federal Regulations, [2012] 2017 Edition published as of July 1, [2012,] 2017, by the U.S. Government Printing Office, U.S. Superintendent of Documents, Washington, DC 20402-0001, is made a part of this chapter except as provided in [subsection] subsections (b) through (d).

(b) State specific definitions. The following definitions are in addition to those found in section 12-50-2 and subsection (a). Where a definition exists in both subsection (a) and this subsection, the definition contained in this subsection supersedes the definition in subsection (a). This State's adoption of [29 CFR Part 1910.2] 29 C.F.R. §1910.2, Definitions, is amended by adding the following definitions:

"Access" means the right and opportunity to examine and copy.

"Analysis using exposure or medical records" means any compilation of data, or any research, or statistical or other studies based at least in part on information collected from individual employee exposure or medical records or information collected from health insurance claims records, [provided that] if either the analysis has been reported to the employer or no further work is currently being done by the person responsible for preparing the analysis.

"ANSI Z9.2" means ANSI Z9.2-1979, Fundamentals Governing the Design and Operation of Local Exhaust Systems.

"ANSI Z88.2" means ANSI Z88.2-1984, Practices for Respiratory Protection.

"Coal tar pitch volatiles" [mean, means, as used in Exhibit A, entitled "Limits for Air Contaminants", and dated July 1, 2017, which is made part of this chapter and located at the end of this chapter, the

fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt, CAS 8052-42-4 and CAS 64742-93-4), wood, and other organic matter.

"Designated [representative,"] representative" means any individual or organization to whom an employee gives written authorization to exercise a right of access. For [the purpose of] access to employee exposure records and analyses using exposure or medical records, a recognized or certified collective-bargaining agent shall be treated automatically as a designated representative without regard to written employee authorization.

"Employee exposure record" means a record containing any of the following kinds of information:

- (1) Environmental (workplace) monitoring or measuring of a toxic substance or a harmful physical agent, including personal, area, grab, or wipe sampling, or any other form of sampling, as well as related collection and analytical methodologies, calculations, and other background data relevant to interpretation of the results obtained;
- (2) Biological monitoring results which directly assess the absorption of a substance or agent by body systems (e.g., the level of a chemical in the blood, urine, breath, hair, fingernails, etc.) but not including results which assess the biological effect of a substance or agent or which assess an employee's use of alcohol or drugs;
- (3) Material safety-data sheets; and
- (4) A chemical inventory or any other record which reveals where and when used and the identity (e.g., chemical, common, or trade name) of a toxic substance or harmful physical agent.

"Employee medical record" means a record concerning the health status of an employee, which is made or maintained by a physician or nurse, or any other health care personnel or technician, including:

- (1) Medical and employment questionnaires or histories (including job description and occupational exposures);
- (2) The results of medical examinations (preemployment, pre-assignment, periodic, or episodic) and laboratory tests (including chest and other X-ray examinations taken for the purposes of establishing a [base-line] baseline or detecting occupational illness, and all biological monitoring not defined as an "employee exposure record");
- (3) Medical opinions, diagnoses, progress notes, and recommendations;
- (4) Descriptions of treatments and prescriptions;
- (5) First-aid records; and
- (6) Employee medical complaints; but does not include medical information in the form of:
 - (A) Physical specimens (e.g., blood or urine samples) [which] that are routinely discarded as a part of normal medical practice; [or]
 - (B) Records concerning health insurance claims if maintained separately from the employer's medical program and its records, and not accessible to the employer by employee name or other direct personal identifier (e.g., social security number, payroll number, etc.);

 [ex]
 - (C) Records created solely in preparation for litigation which are privileged from discovery under the applicable rules of procedure or evidence; or
 - (D) Records concerning voluntary employee assistance programs (alcohol, drug abuse, or personal counseling programs) if maintained separately from the employer's medical program and its records.

"Excursion factor" means the magnitude of the permissible excursion above the PEL-TWA for those substances not preceded by a "C" in Exhibit A entitled

"Limits for Air Contaminants", and dated July 1, 2017, which is made part of this chapter and located at the end of this chapter, and not found in Exhibit B entitled "More Limits for Air Contaminants", and dated July 1, 2017, which is made part of this chapter and located at the end of this chapter.

"Exposure" or "exposed" means that an employee is subjected to a toxic material or harmful physical agent [in the course of] during employment through any route of entry, such as inhalation, ingestion, skin contact, or absorption, and includes past exposure and potential exposure.

"Health professional" means a physician, occupational health nurse, industrial hygienist, toxicologist, or epidemiologist, providing medical or other occupational health services to exposed employees.

"Permissible Exposure Limit (PEL)" means the airborne concentrations of substances to which it is believed that nearly all workers may be exposed with no adverse effect.

"Permissible Exposure Limit-Ceiling (PEL-C)" means the concentration that shall not be exceeded even instantaneously. The PEL-C is the employee's exposure, which shall not be exceeded during any part of the workday. If instantaneous monitoring is not feasible, then the ceiling shall be assessed as a 15-minute time weighted average exposure, which shall not be exceeded at any time over a working day.

"Permissible Exposure Limit-Short Term Exposure Level (PEL-STEL)" means the employee's [15-minute] fifteen (15) minute time weighted average exposure, which shall not be exceeded at any time during a workday unless another time limit is specified in a parenthetical notation below the limit. If another [time] period is specified, the time weighted average exposure over that time limit shall not be exceeded at any time during the workday.

"Permissible Exposure Limit-Time Weighted Average (PEL-TWA)" means the employee's average airborne exposure, which shall not be exceeded in any [7-]

seven (7) to [8-hour] eight (8) hour work shift of a
[40-hour] forty (40) hour workweek.

"Record" means any item, collection, or grouping of information regardless of the form or process by which it is maintained (e.g., paper document, microfiche, microfilm, X-ray film, or automated data processing).

"Specific chemical identity" means the chemical name, Chemical Abstracts Service (CAS) Registry Number, or any other information that reveals the precise chemical designation of the substance.

"Specific written consent" means a written authorization containing:

- (1) The name and signature of the employee authorizing the release of medical information;
- (2) The date of the written authorization;
- (3) The name of the individual or organization that is authorized to release the medical information;
- (4) The name of the designated representative (individual or organization) that is authorized to receive the released information;
- (5) A general description of the medical information that is authorized to be released;
- (6) A general description of the purpose for the release of the medical information; and
- (7) A date or condition upon which the written authorization will expire (if less than one year); but [A] a written authorization does not authorize the release of medical information not in existence on the date of written authorization, unless the release of future information is expressly authorized, and does not operate for more than one year from the date of written authorization. A written authorization may be revoked in writing prospectively at any time.

"Toxic material or harmful physical agent" means any chemical substance, biological agent (bacteria,

virus, fungus, etc.), or physical stress (noise, heat, cold, vibration, repetitive motion, ionizing and non-ionizing radiation, hypo- or hyperbaric pressure, etc.) which:

- (1) Is listed in the latest printed edition of the National Institute for Occupational Safety and Health (NIOSH) Registry of Toxic Effects of Chemical Substances (RTECS); [ex]
- (2) Has yielded positive evidence of an acute or chronic health hazard in testing conducted by, or known to, the employer; or
- (3) Is the subject of a material safety-data sheet kept by or known to the employer indicating that the material may pose a hazard to human health.

"Trade secret" means any confidential formula, pattern, process, device, or information or compilation of information that is used in an employer's business and that gives the employer an opportunity to obtain an advantage over competitors who do not know or use it.

- (c) State specific standards for Occupational Noise Exposure. The following standards are in effect in addition to those adopted $[\frac{by}{y}]$ in subsection (a). Where standards on $[\frac{a \ particular}{an}]$ item exist in both subsection (a) and this subsection, the standards contained in this subsection supersede the standards in subsection (a).
 - (1) 29 [CFR 1910.95] C.F.R. §1910.95 Table G-16 is amended to read as follows:

[\(\tilde{L}\)] TABLE G-16-PERMISSIBLE NOISE EXPOSURES\(^1\)

	Sound level dBA
Duration per day, hours	slow response
8	90
6	92
4	95
3	97

1-1/2	102
1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	105
1/2	110
1/4 or less	115

When the daily noise exposure is composed of two or more periods of noise exposure of different levels, their combined effect shall be considered, rather than the individual effect of each. If the sum of the following fractions: C1/T1+C2/T2Cn/Tn exceeds unity, then[7] the mixed exposure shall be considered to exceed the limit value. Cn indicates the total time of exposure at a specific noise level, [an] a Tn indicates the total time of exposure permitted at that level. Exposure to impulsive or impact noise shall not exceed 140 dB peak sound pressure level.["]

[29 CFR 1910.95(c)(1)] 29 C.F.R. §1910.95(c)(1) is amended to read as follows:

[\(\frac{(A)}{A}\)] The employer shall administer a continuing, effective hearing conservation program, as described in paragraphs (c) through (o) of this section, whenever employee noise exposures equal or exceed an \([8-\text{hour}]\)] \(\frac{\text{eight}}{(8)}\) hour time-weighted average sound level (TWA) of \([85]\)] \(\frac{\text{eight}}{(85)}\) decibels measured on the A scale (slow response) or a dose of 50 percent. For purposes of the hearing conservation program, employee noise exposures shall be computed in accordance with appendix (a) and table G-16a, and without regard to any attenuation provided by \([\text{the use of}]\) using personal protective equipment.

(d) State specific standards for Toxic and Hazardous Substances. The following standards are in effect in addition to those adopted [by] in subsection (a). Where standards on [a particular] an item exist in both subsection (a) and this subsection, the standards contained in this subsection supersede the standards in subsection (a).

- (1) [29 CFR 1910.1000] <u>29 C.F.R. §1910.1000</u> is amended by adding the following:
 - All employers shall measure, monitor, (A) and record employee exposure to toxic materials or harmful physical agents. The measurement shall determine if any employee may be exposed to concentrations of the toxic materials or harmful physical agents at or above the permissible exposure limit. determination shall be made each time there is a change in production, process, or control measures which could result in an increase in concentrations of these materials or agents. A written record of the determination shall be made and shall contain at least:
 - (i) Any information, observations, or calculations that may indicate employee exposure to toxic or potentially toxic materials or harmful physical agents;
 - (ii) Any measurements taken;
 - (iii) Any employee complaints of symptoms that may be attributable to exposure to toxic or potentially toxic materials or harmful physical agents;
 - (iv) Date of determination, work being performed at the time, location within work site, name, and social security number of each employee considered; and
 - (v) Any other information that may be relevant to employee exposure.
 - (B) When medical examinations are appropriate for adequate employee protection, the employer shall, at the employer's cost, provide examinations to best determine the effect of toxic

material or harmful physical agents on the health of employees.

- (2) $[\frac{29 \text{ CFR } 1910.1000(a)}{\text{$1910.1000(a)}}] = \frac{29 \text{ C.F.R.}}{\text{to read as follows:}}$
 - (A) Air Contaminants Limits Column. An employee's exposure to any substance listed in Exhibit A, entitled "Limits for Air Contaminants", and dated July 1, 2017, which is made part of this chapter and located at the end of this chapter, shall not exceed the PEL-TWA, PEL-STEL and PEL-Ceiling specified for that substance shown in Exhibit A.
 - (i) Because many industrial exposures are not continuous, but instead are short-term, or intermittent, to which the PEL-TWAs cannot be applied, PEL-STELs for selected air contaminants are listed in Exhibit A, entitled "Limits for Air Contaminants", and dated July 1, 2017, which is made part of this chapter and located at the end of this chapter.
 - (ii) The PEL-STELs listed in Exhibit A, entitled "Limits for Air Contaminants", and dated July 1, 2017, which is made part of this chapter and located at the end of this chapter, are [15-minute] fifteen (15) minute time-weighted average (TWA) exposures that shall not be exceeded at any time during a workday.
 - (iii) Exposures at the PEL-STEL shall not be longer than [15-minutes]
 fifteen (15) minutes and shall not be repeated more than four times per day. There shall be at least [60] sixty (60) minutes between

successive exposures at the PEL-STEL.

- Skin Designation. To prevent or reduce (B) skin absorption, an employee's skin exposure to substances listed in Exhibit A, entitled "Limits for Air Contaminants", and dated July 1, 2017, which is made part of this chapter and located at the end of this chapter, with an "X" in the Skin Designation columns shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate personal protective equipment, engineering controls, or work practices.
- (3) $[\frac{29 \text{ CFR } 1910.1000 \text{ (b)}}{1000 \text{ (b)}}] = \frac{29 \text{ C.F.R.}}{29 \text{ C.F.R.}}$ \$1910.1000 (b) is amended to read as follows:

[-(A) Exhibit B.]

PEL-TWA. An employee's $\left[\frac{(i)}{(i)}\right]$ (A) exposure to any material listed in Exhibit A, entitled "Limits for Air Contaminants", and dated July 1, 2017, which is made part of this chapter and located at the end of this chapter, in any [7- to 8-hour] seven (7) to eight (8) hour work shift of a [40-hour] forty (40) hour workweek, shall not exceed the PEL-TWA given for that material in Exhibit B, Exhibit B entitled "More Limits for Air Contaminants", and dated July 1, 2017, which is made part of this chapter and located at the end of this chapter. Acceptable ceiling $\left[\frac{1}{1}\right]$ (B) concentration. An employee's exposure to a material listed in Exhibit B, entitled "More Limits for Air

Contaminants", and dated July 1, 2017, which is made part of this chapter and

located at the end of this chapter, shall not exceed at any time during a [7- to 8-hour] seven (7) to eight (8) hour work shift the acceptable ceiling concentration given for that material in the table."

- [(4) The incorporation of Exhibit A at the end of section 12-60-50 entitled ["] Limits for Air Contaminants " dated July 1, 2011, is made a part of this chapter.
- (5) The incorporation of Exhibit B at the end of section 12-60-50 entitled " More Limits for Air Contaminants" dated July 1, 2011, is made a part of this chapter.] [Eff 2/13/12; am 11/2/12; am and comp]

 (Auth: HRS: §396-4) (Imp: HRS §396-4)

Historical Note: \$12-60-50 is based substantially upon Part 2. [Eff 6/8/82; 7/24/94; am 9/30/94; am 8/10/95; am 1/16/96; am 2/8/97; am 10/23/97; am 7/6/98; am 3/29/99; am 7/6/99; am 2/14/00; am 12/29/00; am 12/29/01; am 5/21/04; am 5/5/05; am 9/1/05; am 3/31/06; am 12/21/06; am 4/19/07; am 8/29/07; am 5/2/08; am 7/27/09; R 2/13/12 and Part 8 [Eff 7/12/82; am 5/28/83; am 6/16/84; am 8/5/88; am 3/22/91; am 6/8/92; am 2/26/93; am 7/25/94; am 8/10/95; am 1/26/96; am9/21/96; am 11/16/96; am 2/8/97; am 5/2/97; am 7/10/97; am 4/11/98; am 7/6/98; am 3/29/99; am 12/29/00; am 8/9/01; am 12/29/01; am 5/21/04; am 3/31/06; am 12/21/06; 4/19/07; am 7/27/09; R 2/13/12]

Exhibit A (July 1, 2017)

Limits for Air Contaminants1

		Air Contaminant Limits**						
Substance	-	PEL-TWA*		PEL-ST	ELa	PEL-CEILING		Desig-
	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	nation i
Acetaldehyde	75-07-0	100	180	150	270	_	_	_
Acetic acid	64-19-7	10	25	15	37		_	
Acetic anhydride	108-24-7	_	_	-	-	5	20	_
Acetone	67-64-1	750	1,780	1,000	2,375	-	-	-
Acetonitrile	75-05-8	40	70	60	105			X
2-Acetylaminofluorene	53-96-3		1910.100		105			Δ
Acetylene dichloride	33-30-3	410000000000000000000000000000000000000	,2-Dich		wlone			
Acetylene tetrabromide	79-27-6	1	14	1.5	20		200	122
Acetylsalicylic acid	50-78-2	_	5	-	_	- 200		
(Aspirin)	30-76-2	_	5	_	_	_	_	_
Acrolein	107-02-8	0.1	0.25	0.3	0.8	_	::	-
Acrylamide	79-06-1	_	0.03	-	-	_	_	X
Acrylic acid	79-10-7	2	6	_		_	_	X
Acrylonitrile	107-13-1		1910.104	15				21
Aldrin	309-00-2	-	0.25	-	0.75	-	_	X
Allyl alcohol	107-18-6	2	5	4	10	_	_	X
Allyl chloride	107-05-1	1	3	2	6	_	_	_
Allyl glycidyl ether	106-92-3	5	22	10	44	-	1250 1 <u>-</u> 1	X
(AGE)	100 72 3	3	66	10	44			Λ
Allyl propyl disulfide	2179-59-1	2	12	3	18	_	_	_
∀- Alumina	1344-28-1	_	2. 2.		10			
Total dust	1344-20-1	24	10	<u>~</u>	20			=
Respirable fraction		577 544	5	1000 1000	-		· · · · · · · · · · · · · · · · · · ·	
Aluminum (as Al)	7429-90-5	_	3	_	_			
Metal & oxide	7429-90-5							
Total dust			10	7450	20			<u></u>
Respirable		_	5		-			
fraction			3	-	_		-	-
			5	_				
Pyro powders		EAL			_	_	_	
Welding fumes		-	5	-	_	-	-	-
Soluble salts			2	-	-		1 575	
Alkyls	00 67 1		2	-	_	_	-	-
4-Aminodiphenyl	92-67-1		1910.100					
2-Aminoethanol	221 22 2	See E	thanolan	nine				

0.5

25

100

125

2

2

0.2

18

10

10

5

525

650

8

2

_

35

150

150

5

27

20

20

800

800

20

504-29-0

61-82-5

7664-41-7

12125-02-9

7773-06-0

628-63-7

626-38-0

2-Aminopyridine

Ammonium chloride

Total dust

n-Amyl acetate

sec-Amyl acetate

Ammonium sulfamate

Respirable fraction

Aniline and homologs 62-53-3

Amitrole

Ammonia

Fume

Limits for Air Contaminants¹ (Continued)

		Air Contaminant Limits**						
	_	PEL-TW	'A*	PEL-ST	ELa	PEL-C	EILING	Desig-
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3c}	nation l
Anisidine (o-, p-isomers)	29191-52-4	0.1	0.5		-	-	-	X
Antimony and compounds (as Sb)	7440-36-0	_	0.5	-	-	::	-	
Antimony trioxide Handling and use, as Sb	1309-64-4	÷	0.5	-	<u>0.5</u>	-	-	H
ANTU (Alpha Naphthyl- thiourea)	86-88-4	-	0.3	-	0.9	-	-	-
Arsenic, organic compounds (as As)	7440-38-2	-	0.2	-	-	_	-	-
Arsenic, inorganic compounds, (as As)	7440-38-2	See §	1910.10	18				
Arsine	7784-42-1	0.05	0.2	-	-	-	-	-
Asbestos	Varies	See §	1910.10	01 and	1926.110	01		
Asphalt (petroleum) fumes	8052-42-4	-	5	-	10	-	_	-
Atrazine	1912-24-9	_	5	-	-	-	-	-
Azinphos-methyl	86-50-0		0.2	-	0.6	-	-	X
Barium, soluble compounds (as Ba)	7440-39-3	-	0.5	-	-	-	-	-
Barium sulfate	7727-43-7		272					
Total dust		-	10	-	-	_	-	
Respirable fraction	17004 25 2	77	5	57	S	-	-	-
Benomyl Total dust	17804-35-2	0 0	1.0	1 2	10			
Respirable fraction		0.8	10 5	1.3	15	_	_	_
Benzene; see §1910.1028 Benzidine p-Benzoquinone	71-43-2 92-87-5	See E See S See Q	xhibit 1 1910.100 uinone	03	peration		luded	
Benzo(a)pyrene	1000 N. BRATEN MAN	See C		pitch	volatile	es		
Benzoyl peroxide	94-36-0	-	5		-	_	-	-
Benzyl chloride	100-44-7	1	5	- 000	_	- 0.05	-	_
Beryllium and beryllium compounds (as Be)	/440-41-/	0.0002	2	0.002 (see E	xhibit H	0.005		
Biphenyl Bismuth telluride,	1204 02 1	See D.	iphenyl					
Undoped Total dust	1304-82-1		10		20	1.0		
Respirable fraction			10 5		20	_	_	
Bismuth telluride, Se-doped		_	5	-	10	- T		
Borates, tetra, sodium salts		METER .	5	est?	TO		, C	*200

Limits for Air Contaminants 1 (Continued)

	Air Contaminant Limits**							
	_	PEL-T	WA*	PEL-SI	ELa	PEL-C	EILING	Skin Desig- nation
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m3d	ppmc	mg/m ³⁰	
Anhydrous	1330-43-4	_	1	277.	 8	(<u></u>)	<u></u>	-
Decahydrate	1303-96-4	- ·	5			:	-	10-
Pentahydrate	12179-04-3	- W	1	-	 .	(5.5):		_
Boron oxide	1303-86-2							
total dust	1505 00 2	-	10	122	20	()	-	1 2 4 1 1
Respirable fraction		_	_	1444	_	-		=
Boron tribromide	10294-33-4	_	××	_		1	10	-
	7637-07-2		=	22	22	1	3	-
Boron trifluoride		1	10	2	20	-	_	-
Bromacil	314-40-9	0.1	0.7	0.3	2	_	22	==
Bromine	7726-95-6		0.7	0.3	2	(1000) Value	-	_
Bromine pentafluoride	7789-30-2	0.1		0.5	_	_		X
Bromoform	75-25-2	0.5	5	-	_	1 		Λ
Butadiene (1,3- Butadiene)	106-99-0		1910.10	51				
Butane	106-97-8	800	1,900	-	-	() ()	-	575
Butanethiol		See B	utyl me	rcaptar				
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	200	590	300	885	-	5 <u>775</u>	-
2-Butoxyethanol	111-76-2	25	120	75	360	-	-	X
n-Butyl-acetate	123-86-4	150	710	200	950	200	700	-
sec-Butyl acetate	105-46-4	200	950	250	1,190	-	-	-
tert-Butyl acetate	540-88-5	200	950	250	1,190	111 1	(10)	-
Butyl acrylate	141-32-2	10	55	3 3	 	-	5 <u>44</u> 8	-
n-Butyl alcohol	71-36-3	Signal Control	1 <u>000</u>		-	50	150	X
sec-Butyl alcohol	78-92-2	100	305	150	455	-	8 0	300
tert-Butyl alcohol	75-65-0	100	300	150	450	-	7	522
Butylamine	109-73-9	_	=	1000 A	Services	5	15	X
cert-Butyl chromate	1189-85-1	2000 S	=	(9 -4)	P.		(-)	X
	1109 00 1		31910 10	26 and	§1926.1	126		
(as CrO₃) n-Butyl glycidyl ether (BGE)	2426-08-6	25	135	-	_	_	()	=:
n-Butyl lactate	138-22-7	5	25	-		-	-	1 <u>255</u> 25
Butyl mercaptan	109-79-5	0.5	1.5	4	9%-90	_	9 — 8	-
o-sec Butylphenol	89-72-5	5	30		()	=	1 5	X
o-tert-Butyltoluene	98-51-1	10	60	20	120	-	=	55555 511-35
		_	-	_	_	=	0.05	-
Cadmium fume (as Cd)	7440-43-9	10 <u>0.00</u> 0	0.05	200	· ·	-	0.2	2 p
Cadmium dust (as Cd) Calcium carbonate	7440-43-9 1317-65-3						5.2	
Total dust			10	=	20		_	
Respirable fraction		16	5	<u> </u>	(=)	_	 1	: :
Calcium cyanamide	156-62-7	2 -1 5	0.5	_	1	. 		-
Calcium hydroxide	1305-62-0	-	5	-	=	1900	-	// -
Calcium oxide Calcium silicate	1305-78-8 1344-95-2	=	2	22	() <u></u> (-	=	-
Total dust		=	10	-	-	~	-	

Limits for Air Contaminants (Continued)

		Air Contaminant Limits**						
		PEL-TWA* F		PEL-STI	PEL-STELa		PEL-CEILING	
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	nation i
Respirable fraction			5		_	<u></u>	h es i	_
Calcium sulfate	7778-18-9							
Total dust		-	10	1000	=			-
Respirable fraction		9 13 6	5	=	200	=	9—9	-
Camphor, synthetic	76-22-2	0.3	2	-	₩	-	: - :	=
Caprolactam	105-60-2							
Dust		3 500 3	1	1.00	3	200	_	_
Vapor & Aerosol		5	20		40	 :	0	-
Captafol (DifolatanR)	2425-06-1	(/)/	0.1		1	=	U-S	-
Captan	133-06-2	3 	5	===	15	#	12 <u>1-1</u> 1	-
Carbaryl (Sevin ^R)	63-25-2	-)	5	<u>200</u> 1	10	=	()	: :
Carbofuran (Furadan ^R)	1563-66-2	-	0.1	-	-	-	(-)	(-1)
Carbon black	1333-86-4	9 0	3.5		7	=	-	-
Carbon dioxide	124-38-9	5,000	9,000	15,000	27,000	_	() <u>—</u>);	:
Carbon disulfide	75-15-0	4	12	12	36	-	2 	X
Carbon monoxide	630-08-0	35	40			200	229	
Carbon tetrabromide	558-13-4	0.1	1.4	0.3	4		S=3	X
Carbon tetrachloride	56-23-5	2	12.6	_	-	-		-
Carbonyl fluoride	353-50-4	2	5	5	15	-	<u>=</u>	_
	120-80-9	5	20	<u>-</u>		_	<u></u>	X
Catechol (Pyrocatechol) Cellulose	9004-34-6	J	20					:5.7:
Total dust	3004-34-0	-	10	_	20	_	-	-
		30100	5		_	200	22	-
Respirable fraction	21351-79-1	19 2 21	2	200	1446 1446	_	_	-
Cesium hydroxide	57-74-9	_	0.5	_	2	_	<u></u>	X
Chlordane					1	-	2.70	X
Chlorinated camphene	8001-35-2	1900	0.5	## (##) 	2	1075 3 44	_	-
Chlorinated diphenyl Oxide	55720-99-5	_	0.5	_	2	_		
Chlorine	7782-50-5	0.5	1.5	1	3	<u> </u>	22	((==)
Chlorine dioxide	10049-04-4	0.1	0.3	0.3	0.9	-	-	-
Chlorine trifluoride	7790-91-2	_	-	_	-	0.1	0.4	· 3
Chlorine triridoride Chloroacetaldehyde	107-20-0	_		_	_	1	3	
	78-95-5		9 <u>44</u> 3	-	-	1	4	X
Chloroacetone						18 4	(1 4)	
x- Chloroacetophenone (Phenacyl chloride)	532-27-4	0.05	0.3	777	± 13 5	*=	_	
Chloroacetyl chloride	79-04-9	0.05	0.2	-	S -1 S	-	=	907
Chlorobenzene	108-90-7	75	350	1000	(=)		-	100
O-Chlorobenzylidene malononitrile	2698-41-1		:=):	=	===	0.05	0.4	X
Chlorobromomethane	74-97-5	200	1,050	250	1,300	; 7	-	=
2-Chloro-1,3-Butadiene Chlorodifluoromethane	75-45-6		-Chloro 3,500	prene 1,250	4,375	-	_	***

Limits for Air Contaminants1 (Continued)

,		Air Contaminant Limits**						
		PEL-T	WA*	PEL-ST	ELa	PEL-C	EILING	Desig-
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	nation d
Chlorodiphenyl (42% chlorine) (PCB)	53469-21-9	-	1	: :	2		÷	X
Chlorodiphenyl (54% Chlorine) (PCB)	11097-69-1	-	0.5	8 -0	1		-	X
L-Chloro, 2,3- epoxypropane			Cpichlor					
2-Chloroethanol Chloroethylene	SI		thylene inyl ch		hydrin			
Chloroform (Trichloromethane)	67-66-3	2	9.78	3 -1 2	-	-	=	=
ois(Chloromethyl) ether Chloromethyl methyl ether	542-88-1 107-30-2	material 17	\$1910.10 \$1910.10					
-Chloro-1-nitropropane	600-25-9	2	10	D _	<u>144</u>	-	-	-
Chloropentafluoroethane		1,000	6,320	-		-	2	-
Chloropicrin	76-06-2	0.1	0.7	0.3	2	-	10 773 0	-
3-Chloroprene	126-99-8	10	35	1077		-	Year	X
-Chlorostyrene	2039-87-4	50	285	75	428	-		-
o-Chlorotoluene 2-Chloro-6-(trichloro-	95-49-8 1929-82-4	50	250	75	375	_	2 57 2	X
methyl) pyridine			10		20	_	_	
Total dust		-	10		20	22	=	(<u>1-1</u>)
Respirable		-	5		10 7 10 44	(EX)	F54	
fraction	2021 00 2	_	0.2	220	0.6	_	_	X
Chlorpyrifos	2921-88-2		-	_	-		0.1	_
Chromic acid and chromates (as CrO ₃)	Varies with compound					108W	-	_
Chromite ore processing (Chromate), (as Cr)			0.05					15-20 15-20
Chromium (II)	7440-47-3	5 -1 5	0.5			_	_	_
Chromium (III) compounds (as Cr)	7440-47-3		0.5	-	51006 1	100		200,001
Chromium (VI) Water soluble & insoluble		See S	§1910.10	∠6 and	21370.1	120	-	
Chromium metal (as Cr)	7440-47-3	-	0.5	1777	-	-	22	
Chromyl chloride	14977-61-8	0.025	5 0.15	22		-	-	-
Chrysene Clopidol	2971-90-6		Coal tar	pitch	volatil	es		
Total dust	reconstant units (in)		10	(0)	20	-	-	== 0
Respirable fraction		프	5	720	-	3000	570	=

Limits for Air Contaminants1 (Continued)

	Air Contaminant Limits**							
Substance		PEL-TWA*		PEL-STELa		PEL-CEILING		Desig-
	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	nation i
Coal dust (less than 5% SiO ₂), Respirable fraction		_	2	E	=.	ш	-	n e n
oal dust (greater than or equal to 5% SiO2), Respirable		=	0.1	100 m	E		_	X-2
quartz fraction coal tar pitch volatiles (benzene soluble fraction), anthracene, BaP, phenanthrene, acridine, chrysene, pyrene	65966-93-2	H	0.2f	~	_		-	-
Cobalt metal, dust, and fume (as Co)	7440-48-4	-	0.05	: - :	-	3 -2 2	-	==
Cobalt carbonyl (as Co)	10210-68-1	=	0.1			220	=	-
Cobalt hydrocarbonyl (as Co) Coke oven emissions	16842-03-8	-	0.1	8 -0 3	500	==	Ξ	2
Copper	7440-50-8							
Fume (as Cu)		1	0.1	3 77 9.	2000 2000	220	F = 5	-
Dusts and mists (as Cu)		-	1	-	2	-	-	-
Cotton dust (raw) Crag herbicide (Sesone) (Sodium 2,4-dichloro- phenoxyethyl sulfate)	136-78-7	See §	1910.10	43				
Total dust		-	10	(1)	20	-	-	-
Respirable fraction		_	5	-	·	-	3 , 5	2
Cresol, all isomers	1319-77-3	5	22	-	3500	-	-	X
Crotonaldehyde	123-73-9 4170-30-3	2	6	6	18	_	:::	-
Crufomate	299-86-5	2 -1 2	5	55 8	20	=		1221 1241
Cumene	98-82-8	50	245	75	365	_	5-X	X
Cyanamide	420-04-2		2	-	(-	-	X
Cyanides (as CN)	Varies with compound		5	=	:HI	GR.	=35	
Cyanogen	460-19-5	10	20	_	9 .— \$	0.2	0.6	
Cyanogen chloride	506-77-4	200	1 050	275	1,300	0.3	-	,—
Cyclohexane	110-82-7	300	1,050	375 -	1,300 -	_	_	X
Cyclohexanol	108-93-0 108-94-1	50 25	200	100	400	_	=	X
Cyclohexanone	110-83-8	300	1,015	100	100			-

Limits for Air Contaminants (Continued)

			Air Co	ntamina	nt Limit	ts**		
		PEL-T	WA*	PEL-ST	ELa	PEL-C	EILING	Desig-
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	nation l
Cyclohexylamine	108-91-8	10	40	-		_		_
	121-82-4	10	1.5	-	3		-	X
Cyclonite	542-92-7	75	200	75	200		: - 0	-
Cyclopentadiene Cyclopentane	287-92-3	600	1,720	900	2,580	-	-	-
	13121-70-5	-	5	-	10	112	-	22
Cyhexatin			10	-	20	200	Vanish Control	-
2,4-D (Dichloryl- phenoxyacetic acid)	94-75-7	(500)						
DDT (Dichlorodiphenyl- trichloroethane)	50-29-3	1 1	1	-	3	550	-	X
Decaborane	17702-41-9	0.05	0.3	0.15	0.9	-	() - (X
Demeton (Systox ^R)	8065-48-3	-	0.1	0.03	0.3	=	18 53 6	X
Diacetone alcohol	123-42-2	50	240	75	360		N=3	-
(4-hydroxy-4-methyl- 2-pentanone)								
1,2-Diaminoethane		See E	thylene	diamine				
Diazinon	333-41-5	-	0.1	22	0.3	-	-	X
Diazomethane	334-88-3	0.2	0.4	=	:=	=	() () ()	=
Diborane	19287-45-7	0.1	0.1	=	=	_	<u></u>	8448
1,2-Dibromo-	96-12-8		1910.10					
3-chloropropane 2-N-Dibutylamino-	102-81-8	2	14	4	28	-	-	X
ethanol	107-66-4	1	5	2	10	-		
Dibutyl phosphate		- La	5	_	10	===	200	
Dibutyl phthalate	84-74-2	-	- -	<u> </u>	_	0.1	0.4	_
Dichloroacetylene	7572-29-4		_	-	-	50	300	13);
o-Dichlorobenzene	95-50-1	-		110				120
o-Dichlorobenzene	106-46-7	75	450	110	675	-)	
3,3'-Dichlorobenzidine	91-94-1		1910.10		6 000			
Dichlorodifluoromethane 1,3-Dichloro-5,5-	75-71-8 118-52-5	1,000	4,950 0.2	1,250 -	6,200 0.4	=		=
dimethyl hydantoin	WW 21 2	100	100	0.5.0	1 010			
1,1-Dichloroethane	75-34-3	100	400	250	1,010	-	-	ii ii
1,2-Dichloroethylene	540-59-0	200	790	250	1,000	. 		-
Dichloroethyl ether Dichloromethane	111-44-4	5 See M	30 ethylen	10 e chlor	60 ide	_	_	X
Dichloromonofluoro- methane	75-43-4	10	40	-	(0==	-	=	<u> </u>
1,1-Dichloro-1-nitro- ethane	594-72-9	2	10	10	60	-	-	=
1,2-Dichloropropane		See D	ropylen	e dichl	oride			
	542-75-6	1	5 5		_	2 4- 01	_	X
1,3-Dichloropropene		1	6	_	-		_	
2,2-Dichloropropionic acid	75-99-0	1	U	-040	4031	1233749		

Limits for Air Contaminants1 (Continued)

			Air Co	ntamina	nt Limi	ts**		
		PEL-T	WA*	PEL-SI	ELa	PEL-C	EILING	Desig-
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m3d	ppmc	mg/m ³⁰	Designation d
Dichlorotetrafluoro-	76-14-2	1,000	7,000	1,250	8,750		:	-
ethane	Part Sector - Management - Jackson							17
Dichlorvos (DDVP)	62-73-7	0.1	1	0.3	3			
Dicrotophos	141-66-2	(0.25	<u> 1000</u> 0	-	-	::	57.03
Dicyclopentadiene	77-73-6	5	30	3 -1 3	-	():	3 -3 8	=
Dicyclopentadienyl iron	102-54-5		3.80		0.0			
Total dust		-	10	_	20	-	:	_
Respirable fraction	Manage water the	_	5	9-0				-
Dieldrin	60-57-1	SC	0.25		0.75	==0	-	
Diethanolamine	111-42-2	3	15		_			
Diethylamine	109-89-7	10	30	25	75	=	K - 6	
2-Diethylaminoethanol	100-37-8	10	50	S-0	170	101 5	1000	
Diethylene triamine	111-40-0	1	4	=	-	<u></u>		_
Diethyl ether			thyl et					
Diethyl ketone	96-22-0	200	705	2(2)	500000 5000000	===	20 100 0	100
Diethyl phthalate	84-66-2	5 1.3 6	5	25-02 1000 (100 - 60)	10	 -	72	-
Difluorodibromomethane	75-61-6	100	860	150	1,290	-	-	-
Diglycidyl ether (DGE)	2238-07-5	0.1	0.5	(i)	-	72 1	3,000	-
Dihydroxybenzene		See H	ydroqui	none				
Diisobutyl ketone	108-83-8	25	150	77-2-7	-	-	-	
Diisopropylamine	108-18-9	5	20	-	-	=	-	X
4-Dimethylaminoazo- benzene	60-11-7	See §	1910.10	03				
Dimethoxymethane	109-87-5							
Dimethyl acetamide	127-19-5	10	35	15	50	-	=	
Dimethylamine	124-40-3	10	18	10	50	_		-
Dimethylaminobenzene		See X	ylidine					
Dimethylaniline (N-Dimethyl-	121-69-7	5	25	10	50	50 0	#	Х
aniline		O V						
Dimethylbenzene	200 76 5	see x	ylene		RES	_	22	X
Dimethyl-1, 2-dibromo- 2,2-dichloroethyl phosphate	300-76-5		3	 .	-			Λ
Dimethylformamide	68-12-2	10	30	20	60	22	<u> </u>	X
2,6-Dimethyl-4- heptanone			iisobut		one			
1,1-Dimethylhydrazine	57-14-7	0.5	1	1	2	-	-	X
Dimethylphthalate	131-11-3) 	5	2007 2007	10	944	-	
Dimethyl sulfate	77-78-1	0.1	0.5	_	1 10	=	=	X
Dinitolmide (3,5- Dinitro-o-toluamide)	148-01-6	=	5	=	10	\$E 14	=	<u> </u>

Limits for Air Contaminants (Continued)

			Air Co	ntamina	ant Limi	ts**		
		PEL-T	WA*	PEL-S'	rela	PEL-C	CEILING	Skin Desig- nation
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	
Dinitrobenzene (all								
isomers) (alpha-) (meta-) (para-)	528-29-0 99-65-0 100-25-4	0.15	1	0.5	1	=	m	X
Dinitro-o-cresol	534-52-1	_	0.2	-	0.6			X
Dinitrotoluene	25321-14-6	-	1.5	-	5	= :		X
Dioxane (Diethylene dioxide)	123-91-1	25	90	22	2 <u>116</u> 8			X
Dioxathion (Delnav)	78-34-2	-	0.2	-		-)	μ.	X
Diphenyl (Biphenyl)	92-52-4	0.2	1.5	0.6	4	-	-	(
Diphenylamine	122-39-4	22	10	: 	20	(++)		4.70
Diphenylmethane diisocyanate		See M	ethylen	e bispl	nenyl is	ocyana	ate	
Dipropylene glycol methyl ether	34590-94-8	100	600	150	900	-	=	X
Dipropyl ketone	123-19-3	50	235	(=	700	-	-	-
Diquat	85-00-7	_	0.5	(24	1	-	-	575
Di-sec-octyl phthalate (Di-2-ethylhexyl-phthalate)	117-81-7		5		10	8 -1 8		
Disulfiram	97-77-8	7	2	(2 10 1)	5	1000	1 55	
Disulfoton	298-04-4	=	0.1	() ()	0.3	Remarks	74-	X
2,6-Di-tert-butyl-p- cresol	128-37-0	#	10	a⊷it	20	0=0	-	-
Diuron	330-54-1	=	10	(A les t)	-	-		_
Divinyl benzene Emery	1321-74-0 112-62-9	10	50	5 <u>11</u> 2(-
Total dust		=	10	; - ;			-	
Respirable fraction		***	5	N <u>er</u> d	6.6			- 27
Endosulfan	115-29-7	-	0.1	£—1:	0.3		# #	X
Endrin	72-20-8	-	0.1	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	0.3	-		X
Epichlorohydrin	106-89-8	2	8	\leftarrow	-	_	-	X X
EPN	2104-64-5	-	0.5	-	2	-	(Sep	Λ
1,2-Epoxypropane			ropylen		е			
2,3-Epoxy-1-propanol			Glycidol Ethyl me		n			
Ethanethiol	1 / 1 / 1 E		8 renar we	6	15	_	(<u>-</u>	9 <u>24</u> 7
Ethanolamine	141-43-5	3	0.4	-	-		55 <u>45</u> 5	X
Ethion	563-12-2 110-80-5	5	19		·=	-		X
2-Ethoxyethanol	111-15-9	5	27	_	s 0	_	-	X
2-Ethoxyethyl acetate (Cellosolve acetate)		400	1,400	==:	3 — 3	_	_	
Ethyl acetate	141-78-6	5	20	25	100	_	-	Х
Ethyl acrylate Ethyl alcohol (Ethanol)	140-88-5 64-17-5		1,900	-	-		223)	_

Limits for Air Contaminants¹ (Continued)

			Air Con	ntamina	nt Limi	ts**	¥	
		PEL-T	WA*	PEL-ST	ELa	PEL-CI	EILING	Desig-
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m3d	ppmc	mg/m ³⁰	nation l
Ethylamine	75-04-7	10	18	n=+	_	-	; (;	-
Ethyl amyl ketone (5- Methyl-3-heptanone)	541-85-5	25	130	19—3	-	-	e ste ll	-
Ethyl benzene	100-41-4	100	435	125	545	-	-	=
Ethyl bromide	74-96-4	200	890	250	1,110	==	-	=
Ethyl butyl ketone (3-Heptanone)	106-35-4	50	230	75	345	=		=
Ethyl chloride	75-00-3	1,000	2,600	1,250	3,250	 2	() ()	
Ethyl ether	60-29-7	400	1,200	500	1,500	=	-	-
Ethyl formate	109-94-4	100	300	7 <u></u>	-	100		-
Ethyl mercaptan	75-08-1	0.5	1	·	-	=:	(=
Ethyl silicate	78-10-4	10	85		-	2003 5.00	=	(27)
Ethylene chlorohydrin	107-07-3	-	=	1/(224)	-	1	3	X
Ethylenediamine	107-15-3	10	25	-	-	 1	-	·
Ethylene dibromide	106-93-4	20	-	-		30		X
		See E	xhibit 1	3 for o	peration	ns exc	Luded	
Ethylene dichloride	107-06-2	1	4	2	8	-	0-1	()
Ethylene glycol, vapor	107-21-1	-	-	-	977	50	125	-
Ethylene glycol dinitrate (EGDN)1	628-96-6	0.05	0.3	=	0.1		-	X
Ethylene glycol methyl acetate		See Me	ethyl c	ellosol	ve aceta	ate		
Ethylene imine	151-56-4	See §	1910.10	03				
Ethylene oxide	75-21-8	See §	1910.10	47				
Ethylidene chloride		See 1	,1-Dich	loroeth	ane			
Ethylidene norbornene	16219-75-3	_	_	<u></u>	-	5	25	()
N-Ethylmorpholine	100-74-3	5	23		-	===	1.00	X
Fenamiphos	22224-92-6	: <u>-</u> :	0.1		()			X
Fensulfothion (Dasanit)	115-90-2		0.1	=	1 4 8	22		
Fenthion Ferbam	55-38-9 14484-64-1	3 -1 3	0.2	=	5 5-2 0	1000 1000	₹.	X
Total dust		S-1	10	***	20	-	-	
Respirable fraction	-		=	=	 .	-	-	
Ferrovanadium dust	12604-58-9	=	1	8	3	-		-
Fibrous glass dust	with the same of t	5- -	10h	-		-	-	· -
Fluorides (as F)	Varies with compound	S—S	2.5	=	:=:	-	77	
Fluorine	7782-41-4	0.1	0.2	-	2-2	-	-	12 00 1
Fluorotrichloro- methane (Trichloro- fluoromethane)	75-69-4	8-1	: =		s m s	1,000	5,600	1 1
Fonofos	944-22-9	-	0.1		((=)	==		X
Formaldehyde	50-00-0	See §	1910.10	48				

Limits for Air Contaminants (Continued)

			Air Co	ntamina	nt Limit	ts**		
	_	PEL-T	WA*	PEL-ST	_{'EL} a	PEL-C	EILING	Skin Desig- nation
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	
Formamide	75-12-7	10	15	_		3 -1 3		on d
Formic acid	64-18-6	5	9	10	18	-	-	_
Furfural	98-01-1	2	8			-	-	X
Furfuryl alcohol	98-00-0	10	40	15	60	()		X
Gasoline	8006-61-9	300	900	=	-	-	-	
Germanium tetrahydride	7782-65-2	0.2	0.6	0.6	1.8	_	22	==
Glutaraldehyde	111-30-8	-	_	_	_	0.2	0.7	
	56-81-5					0.2		
Glycerin (mist) Total dust	20-01-2	2	10	922	<u>100</u> 1	3 <u></u> 3	1000	-
Respirable fraction	120	5	_	==	_	·	-	
The second secon	556-52-5	25	75	_	_	_	_	=
Glycidol	336-32-3	5200000	-Ethoxy	- athanal				
Glycol monoethyl ether		_ 	10	- CHallos	<u></u>	-	_	_
Grain dust (oat,		_	10					
wheat, barley)	7700 40 E		2.5		-	123	24	_
Graphite, natural	7782-42-5		2.5	: 				
respirable dust								
Graphite, synthetic	-		10					
Total dust			10	(5.5)/		1.50		_
Respirable fraction		_	5			::	-	_
GuthionR		See A	zinphos	methy	L			
Gypsum	13397-24-5				0.0			
Total dust		-	10	NEW Y	20	_	2 2	_
Respirable fraction		5	=	-	-		5 -1 6	
Hafnium	7440-58-6		-	0.5	-	1.5		-
Heptachlor	76-44-8	1000	0.5	_	2	<u></u> ;	:	X
Heptane (n-Heptane)	142-82-5	400	1,600	500	2,000	-	7,000	=
Hexachlorobutadiene	87-68-3	0.02	0.24	1.00	=	55 8	-	_
Hexachlorocyclo-		CONTRACTOR	600 00	Original of Edition	720 520			
pentadiene	77-47-4	0.01	0.1	0.03	0.3	=	i - 1	4577
Hexachloroethane	67-72-1	1	10	()	2000 1 1994	55%		X
Hexachloronaphthalene	1335-87-1	8 5- 71	0.2		0.6		_	X
Hexafluoroacetone	684-16-2	0.1	0.7	0.3	2	-	() (2	X
n-Hexane	110-54-3	50	180		-	=	U s	-
Hexane isomers	Varies with compound	500	1,800	-	=	_	-	
2-Hexanone (Methyl n-butyl ketone)	591-78-6	5	20	: :	: =	=	8 = 8	5 20 6
Hexone (Methyl isobutyl ketone	108-10-1	50	205	75	300	-	: - :	-
sec-Hexyl acetate	108-84-9	50	300	-	-	-	71 <u>2-3</u> 1	2 <u>—</u> 2
	107-41-5	-	-	-31	0 44 6	25	125	: - :
Hexylene glycol		0.1	0.1	_	-	-	-	X
Hydrazine	302-01-2				1.57 4.77	=		_
Hydrogenated Terphenyls	61788-32-7	0.5	5	TEX	0.7740		por	
Hydrogen bromide	10035-10-6	N ad e	1	-	(-)	3	10	33 000 3

Limits for Air Contaminants (Continued)

			Air Co	ntamina	nt Limi	ts**		
		PEL-T	WA*	PEL-ST	ELa	PEL-C	EILING	Skin Desig-
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	nation
Hydrogen chloride	7647-01-0	_		-		5	7	-
Hydrogen cyanide	74-90-8	_	722	4.7	5	_	_	X
Hydrogen fluoride (as F)	7664-39-3	3		6	-		i m	
Hydrogen peroxide	7722-84-1	1	1.4	2	3	n es i	-	-
Hydrogen selenide (as Se)	7783-07-5	0.05	0.2		-	(-)	-	
Hydrogen sulfide	7783-06-4	10	14	15	21	1944	-	-
Hydroquinone	123-31-9	2	2		4	-	-	-
2-Hydroxypropyl acrylate	999-61-1	0.5	3	2 21	-	(Carl	Œ	X
Indene	95-13-6	10	45	15	70		-	-
Indium and compounds (as In)	7440-74-6	-	0.1	2 	0.3	(/ 10	=	
Iodine	7553-56-2	1000			-	0.1	1	-
Iodoform	75-47-8	0.6	10	1	20	-	1000	=
<pre>Iron oxide dust and fume (as Fe)</pre>	1309-37-1							
Total particulate		-	5	: :	10	===	-	1.72
Iron pentacarbonyl (as Fe)	13463-40-6	0.1	0.8	0.2	1.6			-
Iron salts (soluble) (as Fe) Varies with compound		-	1	=	2		==	_
Isoamyl acetate	123-92-2	100	525	125	655	-	()	
Isoamyl alcohol (primary and secondary)	123-51-3	100	360	125	450	=	-	<u>22</u>
Isobutyl acetate	110-19-0	150	700	187	888	507 (=	
Isobutyl alcohol	78-83-1	50	150	75	225	=	_	-
Isooctyl alcohol .	26952-21-6	50	270	()=(;	-		-	X
Isophorone	78-59-1	4	23	(1 500).	1 751	5	28	=
Isophorone diiso- cyanate	4098-71-9	0.005	0.045	0.02	111	_	1	X
2-Isopropoxyethanol	109-59-1	25	105	75	320	===	0776	-
Isopropyl acetate	108-21-4	250	950	310	1,185	-		3440
Isopropyl alcohol	67-63-0	400	980	500	1,225	-	-	S 0
Isopropylamine	75-31-0	5	12	10	24	-	-	8 1.1 0.
N-Isopropylaniline	768-52-5	2	10	7770 1921 1921 1930 1	1.	-	-	X
Isopropyl ether	108-20-3	250	1,050	310	1,320	-	3-6	-
Isopropyl glycidyl ether (IGE)	4016-14-2	50	240	75	360	-	-	1
Kaolin	700		HETTIAN		797.91			
Total dust		B = 6	10	-	20			R - R
Respirable fraction		5 -1 2	5		0 5.5 0	77	110 3	S → 11

Limits for Air Contaminants¹ (Continued)

		0	Air Co	ntamina	nt Limi	ts**		
		PEL-T	WA*	PEL-ST	ELa	PEL-C	EILING	Skin Desig-
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m3d	ppmc	mg/m ³⁰	nation d
Ketene	463-51-4	0.5	0.9	1.5	3	-	a cc u	=
Lead chromate, as Cr	7758-97-6	-	0.05	(1770)	=	-		-
Lead inorganic (as Pb)	7439-92-1	See §		25 and	1926.62	30		
Limestone Total dust	1317-65-3	-	10	÷	20	-	();	=
Respirable fraction	VITAGO COQUER SAFE	-	5	***	-		3 .7 5	7
Lindane	58-89-9	()—()	0.5	110 8	1.5	-		X
Lithium hydride	7580-67-8 68476-85-7	1 000	0.025 1,800	- 1,250	2,250	_	_	_
L.P.G. (Liquefied petroleum gas)		1,000	1,000	1,230	2,230			
Magnesite	546-93-0	00040	10	222	20	_	-	-
Total dust		-	5		-	_	_	344
Respirable fraction Magnesium oxide fume	1309-48-4		J					
Total particulate	1303 10 1	1941	10	200	1 94 1	-	₩.	
Malathion	121-75-5							
Total dust		13 -1 -1	10	550	=	=	==	X
Maleic anhydride	108-31-6	0.25	1	==	-	-	-	=
Manganese compounds (as Mn)	7439-96-5	-	-	-	-	-	5	-
Manganese fume (as Mn)	7439-96-5		1		3	-	-	
Manganese cyclopenta- dienyl tricarbonyl (as Mn)	12079-65-1	2-3	0.1		0.3	-	₩.	X
Manganese tetroxide (as Mn)	1317-35-7	-	1	-	-	-	=	0 110 2
Marble (Calcium carbonate)	1317-65-3							
Total dust Respirable		-	10	-	20	र ुक्त	1 <u>, 200</u> 1 2000)	<u> </u>
fraction		<u>(2.25)</u>	5	-		-	1 55 225 - 227	50 1
Mercury (aryl and inorganic) (as Hg)	7439-97-6	-	3	-	-	-	0.1	X
Mercury (organo) alkyl compounds (as Hg)	7439-97-6	= 2002	0.01	€ ()	0.03	3 -1 0	=	Х
Mercury (vapor) (as Hg)	7439-97-6	#	0.05		-	1.—0	-	X
Mesityl oxide	141-79-7	15	60	25	100	-	-	-
Methacrylic acid	79-41-4	20	70	1441	-	-	-	X
Methanethiol		See M	Methyl m	nercapta	an			
Methomyl (Lannate) Methoxychlor	16752-77-5 72-43-5	-	2.5	is tra e		-	9 <u>24</u>	=
Total dust		-	10		-	3 51 3	1000	

Limits for Air Contaminants (Continued)

			Air Co	ntamina	nt Limi	ts**		
	<u> </u>	PEL-T	EL-TWA* 1		ELa	PEL-C	EILING	Skin Desig- nation
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	
2-Methoxyethanol	150-76-5	See Me	ethyl c	ellosol	ve			
4-Methoxyphenol	H00 0 0 0	KUNTERON	2222	1201202				
Methyl acetate	79-20-9	200	610	250	760	()	-	
Methyl acetylene (Propyne)	74-99-7		1,650	1,250	2,040	3 - 3	-	=
Methyl acetylene- propadiene mixture (MAPP)		1,000	1,800	1,250	2,250	-	-	=
Methyl acrylate	96-33-3	10	35	5 <u>744</u> 34		1941	-	X
Methylacrylonitrile	126-98-7	1	3	2	6	-	-	X
Methylal (Dimethoxy- methane)	109-87-5	1,000	3,100	1,250	3,875		=	_
Methyl alcohol (methanol)	67-56-1	200	260	250	325	15 -1 5	i on	X
Methylamine	74-89-5	10	12	-	100	-	-	-
Methyl amyl alcohol		See M	ethyl i	sobutyl	carbin	ol		
Methyl n-amyl ketone	110-43-0	50	235	: = :	=	9 .53 8		
N-Methyl aniline	100-61-8	0.5	2	1	5	70==1	4 <u>44</u> 0	X
Methyl bromide	74-83-9	5	20	15	60			X
Methyl n-butyl ketone		See 2	-Hexano	ne				
Methyl cellosolve (2-Methoxyethanol)	109-86-4	5	16		H	==		X
Methyl cellosolve acetate (2-Methoxyethyl acetate)	110-49-6	5	24	=	##	=	æ	X
Methyl chloride	74-87-3	50	105	106	205	200	_	(<u>471</u>
Methyl chloroform (1,1,1-Trichloro-ethane)	71-55-6	350	1,900	450	2,450	_	9 -	-
Methyl 2-cyanoacrylate	137-05-3	2	8	4	16	-	-	-
Methylcyclohexane	108-87-2	400	1,600	500	2,000	_	64 55 5	3 111 .5
Methylcyclohexanol	25639-42-3	50	235	75	350		-	-
o-Methylcyclohexanone	538-60-8	50	230	75	345	_).'—;	X
2-Methylcyclo- pentadienyl manganese tricarbonyl (as Mn)	12108-13-3		0.2	<u>≠</u>	0.6	-	N 	X
Methyl demeton	8022-00-2	-	0.5	-	1.5	=	57 6	X
4,4'-Methylene bis (2-chloroaniline) (MBOCA)	101-14-4	0.02	0.22		-	Seed School	MICCO AND SOME	X
Methylene bis (4- cyclohexyliso- cyanate)	5124-30-1	8-17	-	_	-	0.01	0.11	(=)

Limits for Air Contaminants (Continued)

			Air Co	ntamina	ant Limi	ts**		
	-	PEL-T	WA*	PEL-S	rela	PEL-C	EILING	Skin Desig-
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m3d	ppmc	mg/m ³⁰	nation d
Methylene chloride	75-09-2	entertainment to the	1910.10					
<pre>4,4'-Methylene dianiline;</pre>	101-77-9	70			1926.60			
Methyl ethyl ketone (MEK)		See 2	-Butano	ne				
Methyl ethyl ketone peroxide (MEKP)	1338-23-4	-		100	=:	0.2	1.5	-
Methyl formate	107-31-3	100	250	150	375	_	-	
Methyl hydrazine (Mono-methyl hydrazine	60-34-4		-	_	_	0.2	0.35	X
Methyl iodide	74-88-4	2	10	<u>-</u>		-	-	X
Methyl isoamyl ketone	110-12-3	50	240	1 	_	(-)	-	500
Methyl isobutyl carbinol	108-11-2	25	100	s =	=	-		X
Methyl isobutyl ketone		See H	exone					
Methyl isocyanate	624-83-9	0.02	0.05	<u>0-2-2</u>) (<u> </u>	-	-	X
Methyl isopropyl Ketone	563-80-4	200	705	: - :	-	·	-	100 1
Methyl mercaptan	74-93-1	0.5	1	4	-	2-1	-	-
Methyl methacrylate	80-62-6	100	410	()	_	S S		-
Methyl parathion	298-00-0	3 44	0.2	200 €	0.6	re nt s	=	X
Methyl propyl ketone		See 2	-Pentan	one				
Methyl silicate	681-84-5	1	6	-	-	-	(-)	5.
α- Methyl styrene Methylal	98-83-9 109-87-5	50	240	100	485	-	-	124
Methylene bisphenyl isocyanate (MDI)	101-68-8	200	=	9 - 2	53	0.02	0.2	#
Metribuzin	21087-64-9	-	5	()	-	-	3 — 6	700
Mevinphos ^R		See F	hosdrin					
Mica		See S	ilicate	S				
Molybdenum (as Mo)	7439-98-7							
Soluble compounds Insoluble compounds		-	5	<u>(</u>	10		e ra l	***
Total dust		S <u>***</u>	10		20	100)		3
Monocrotophos (Azodrin ^R)	6923-22-4	5 -	0.25))	_	-	:=:	
Monomethyl aniline (N-Methylaniline)	100-61-8	0.5	2	o <u>h</u> a	9 11	-	1941	X
Morpholine	110-91-8	20	70	30	105		-	X
Naled	300-76-5			3	8 <u>#</u>	6	()	X
Naphtha (Coal tar)	8030-30-6	100	400		-	***	8 5-8 8	(See)
Naphthalene	91-20-3	10	50	15	75	#	-	()
α- Naphthylamine	134-32-7	See §	1910.10	03				

Limits for Air Contaminants¹ (Continued)

FE	Air Contaminant Limits**								
	_	PEL-T	WA*	PEL-SI	ELa	PEL-C	EILING	Desig-	
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	nation i	
ß-naphthylamine	91-59-8	See §	1910.10	03					
Nickel carbonyl (as Ni)	13463-39-3	0.001	0.007		} -	-		=	
Nickel, metal and insoluble compounds			1		19	<u>~~</u>	1	-	
(as Ni)	7440-02-0								
Nickel, soluble	7440-02-0	=	0.1	8 -1 8	0.3	#	7646	120	
compounds (as Ni)									
Nickel sulfide	-	()	1	(100)	-	-	-	-	
roasting, fume & dust, (as Ni)									
Nicotine	54-11-5	: 01	0.5	()	1.5	-	: :	X	
Nitrapyrin	1929-82-4	(773)	10	5000	20		-	=	
Nitric acid	7697-37-2	2	5	4	10	=	-	1900	
Nitric oxide	10102-43-9	25	30	35	45	-	$(-1)^{-1}$	-	
p-Nitroaniline	100-01-6	10 -1 01	3	0 .− 0		557	-	X	
Nitrobenzene	98-95-3	1	5	2	10	-	-	X	
p-Nitrochlorobenzene	100-00-5	0.1	0.6	2 - 1		-	-	X	
4-Nitrodiphenyl	92-93-3	See §	1910.10	03					
Nitroethane	79-24-3	100	310	150	465		-	-	
Nitrogen dioxide	10102-44-0	3	6	5	9.4	-	-	-	
Nitrogen trifluoride	7783-54-2	10	29	15	45	-		=	
Nitroglycerin (NG)1	55-63-0	-	-		0.1	-	13 <u>—</u> 16	X	
Nitromethane	75-52-5	100	250	150	375	-	3 — 3	-	
1-Nitropropane	108-03-2	25	90	35	135	=	-	, de	
2-Nitropropane	79-46-9	10	35	-	E	-	=	S==1/2	
N-Nitrosodi-	62-75-9	See §	1910.10	03					
methylamine									
Nitrotoluene									
o-isomer	88-72-2;	2	11	-	14.4	-	-	X	
m-isomer	99-08-1;	2	11	3 00	-	-	(111)	X	
p-isomer	99-99-0	2	11	0 .70 0	N 	=	-	X	
Nitrotrichloromethane		See C	hloropi	crin					
Nitrous oxide	10024-97-2	50	91	99-08	-	-	6 100 2	i s d is	
Nonane	111-84-2	200	1,050	250	1,300	-	\leftarrow	-	
Octachloronaphthalene	2234-13-1	2.5	0.1	0(<u>4</u>)	0.3	=	8-41	X	
Octane	111-65-9	300	1,450	375	1,800	-	S 	\$ 2	
Oil mist, mineral	8012-95-1-	5 ⁱ	=	10 ⁱ	A T-100	-	0. 550 4		
Osmium tetroxide									
(as Os)	20816-12-0	0.000		0.002	0.0006	0.006	3 - -	(-)	
Oxalic acid	144-62-7	()))	1		2	5 <u>55</u>) 5550 (2000)			
Oxygen difluoride	7783-41-7	[=]		**************************************		0.05	0.11	S=2	
Ozone	10028-15-6	0.1	0.2	0.3	0.6	-	()	() ()	
Paraffin wax fume	8002-74-2	2 71 83	2	-	6	-	3 5-2 3	-	

Limits for Air Contaminants¹ (Continued)

	-							
		PEL-T	EL-TWA* PEL-STEL ^a PE		ELa	PEL-C	PEL-CEILING	
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3c}	nation i
Paraquat, respirable	1910-42-5		0.1	<u></u>	7 <u>—</u> 2	100	<u>260</u> 0	X
dust	2074-50-2	-	0.1	-	0=0	-	-	X
	4685-14-7	-	0.1		3.776	. 	-	X
Parathion	56-38-2	227	0.1	220	0.3	(<u>445</u>	220	X
Particulates not	-							
other wise regulated								
Total dust	_		10	507		1252	-	
Respirable	_	_	5	_		_	-	_
fraction	, etc		J	Jac	200000	A-600	*****	(DALTER)
Pentaborane	19624-22-7	0.005	0.01	0.015	0.03	-	_	5
Pentachloronaphthalene	1321-64-8	-	0.5	-	2	_		X
Pentachlorophenol	87-86-5		0.5	20	1.5	22		X
Pentaerythritol	115-77-5		0.0		1.0			
Total dust		-	10	***	20	_		()
Respirable fraction			5	-	-		1.77	-
Pentane	109-66-0	600	1,800	750	2,250	_	(1 <u>4.3</u>)	2 4 14 2
2-Pentanone (Methyl propyl ketone)	107-87-9	200	700	250	875	-	-	s s
Perchloroethylene (Tetrachloro- ethylene)	127-18-4	25	170	200	1,340	_	ш	<u> </u>
Perchloromethyl	594-42-3	0.1	0.8		_	_	7 <u></u> 1	1221
mercaptan	331 12 3	0.1	0.0					
Perchloryl fluoride	7616-94-6	3	14	6	28	_		
Perlite	_	9			20			
Total dust		(100)	10	-	S-C	-	0-0	1 44 0
Respirable fraction			5			-	2-3	(-1 0
Petroleum distillates (Naphtha)	8002-05-9	400	1,600	-		-	=	2
Phenol	108-95-2	5	19	10	38	-	1 -1 1	X
Phenothiazine	92-84-2	-	5	-	10	<u> </u>	_	X
-Phenylene diamine	106-50-3	_	0.1	_	_	_	0 <u>—</u> 1	X
Phenyl ether, vapor	101-84-8	1	7	2	1.4	=	0-0	: -):
Phenyl ether-biphenyl mixture, vapor	-	ī	7	-	Ē	-	lens	=
Phenylethylene		See St	tyrene					
Phenyl glycidyl ether (PGE)	122-60-1	1	6	13 			-	(EST) (
Phenylhydrazine	100-63-0	5	20	10	45	_	-	X
Phenyl mercaptan	108-98-5	0.5	2	_	-	_	-	_
Phenylphosphine	638-21-1	-	_		1 <u>000</u>	0.05	0.25	4400 44000
horate	298-02-2) -	0.05	-	0.2	-	-	X
Phosdrin (Mevinphos ^R)	7786-34-7	0.01	0.1	0.03	0.3	_		X

Limits for Air Contaminants (Continued)

			Air Co	ntamina	ant Limi	ts**		
	_	PEL-T	WA*	PEL-S	r _{EL} a	PEL-C	EILING	Skin Desig- nation
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	
Phosgene (Carbonyl chloride)	75-44-5	0.1	0.4	-	-	S 	-	(,).
Phosphine	7803-51-2	0.3	0.4	1	1.4	(<u>***</u> N	<u>12-1</u> 2	() <u>—</u> ()
Phosphoric acid	7664-38-2	-	1	-	3	: :	-	()
Phosphorus (yellow)	7723-14-0	-	0.1	-	0.3	-	-	· —
Phosphorus oxychloride	10025-87-3	0.1	0.6	0.5	3	_	222	R <u>-1</u> 3
Phosphorus penta- Chloride	10026-13-8	_	1	_	3	-	-	-
Phosphorus penta- Sulfide	1314-80-3		1	=	3	=	=	122
Phosphorus trichloride	7719-12-2	0.2	1.5	0.5	3	::	-	1.
Phthalic anhydride	85-44-9	1	6	-	H	-		-
m-Phthalodinitrile Picloram	626-17-5 1918-02-1		5	_	_	-	-	-
Total dust		50 0	10	FT.	20	= ,	=	-
Respirable fraction			5	<u>~</u>		2	-	-
Picric acid	88-89-1	-	0.1	-	0.3	: 	-	X
Pindone (2-Pivalyl- 1,3-indandione)	83-26-1	=	0.1	=	0.3			
Piperazine dihydro- chloride	142-64-3	-	5	-		-	-	0=2
Plaster of Paris	26499-65-0							
Total dust		-	10	-	-	-	-	-
Respirable fraction		-	5	-	-		700	N 2
Platinum (as Pt)	7440-06-4							
Metal		-	1	-	_	-	-	-
Soluble salts		=:	0.002		-		=	-
Portland cement	65997-15-1							
Total dust		-	10	=	_	-	-	_
Respirable fraction			5	-	-			-
Potassium hydroxide	1310-58-3		(E)	=	-	_	2	
Propane	74-98-6		1,800			-	-	-
Propargyl alcohol	107-19-7	1	2	3	6	-	-	X
3-Propiolactone	57-57-8		1910.10					
Propionic acid	79-09-4	10	30	15	45	_	_	_
Propoxur (Baygon)	114-26-1	-	0.5	-	2	-	-	***
n-Propyl acetate	109-60-4	200	840	250	1,050	300	=	11
n-Propyl alcohol	71-23-8	200	500	250	625	MITTER STATE		X
n-Propyl Nitrate	627-13-4	25	105	40	170	:);	-	
Propylene dichloride	78-87-5	75	350	110	510	5)(570	200 200 1200
Propylene glycol dinitrate (PGDN)	6423-43-4	0.05	0.3	0.1	0.6		=	X
Propylene glycol mono- methyl ether	107-98-2	100	360	150	540	1 	_	₹ZZ
Propylene imine	75-55-8	2	5	-		9-0	-	X

Limits for Air Contaminants¹ (Continued)

	Air Contaminant Limits**							
	_	PEL-I	*AW	PEL-ST	rela	PEL-C	EILING	Skin Desig-
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	nation i
-	75 56 0	20	Γ.Ο.					
Propylene oxide	75-56-9	20	50	40	- 170	_	20 00 2	125
n-Propyl nitrate	627-13-4	25	105	40		======================================	=	
Propyne	0002 24 7		Methyl a	-	10			_
Pyrethrum	8003-34-7	-	5			=	00=0 0000	
Pyridine	110-86-1	5	15	10	30	-	TEACH TO SERVICE STATE OF THE	_
Quinone	106-51-4	0.1	0.4	0.3	1	_		_
Resorcinol	108-46-3	10	45	20	90	 .	5 .0 5.	5
Rhodium (as Rh), metal fume and insoluble compounds Rhodium (as Rh),	7440-16-6		0.1	:=:	:	=	: = :	-
soluble compounds	7440-16-6	-	0.001	7-4	-	-	V-38	-
Ronnel	299-84-3	N—8	10	2 -1 2	-	-	-	()
Rosin core solder	233 01 3		10					
pyrolysis products,								
as formaldehyde	딸	9 — 9	0.1	9209	0.3	_	0-0	,
Rotenone (commercial)	83-79-4		5	1-1	10	_	-	
Rouge	-		×		10			
Total dust			10	-	20	_	-	i :
Respirable fraction		-	5	D=0	_	_	-	e
Rubber solvent	_	400	1,600	- -	(<u>4200</u>	=	_	-
(Naphtha)		400	1,000					
Selenium compounds	_	0.2		-	-	_	-:	-
(as Se)	7782-49-2	0.2						
Selenium hexafluoride	7783-79-1	0.05	0.2		-		220	-
(as Se)	1105 15 1	0.05	0.2					
Sesone (Sodium 2,4-dichloro-phenoxy-ethyl sulfate)		See Crag herbicide						
Silane		See S	Silicone	tetrah	nydride			
Silica, amorphous,	_	-	6	_	_	_	_	_
precipitated and gel								
Silica, amorphous,	-	6	_	== :	-	=	55 0	
diatomaceous earth		O .						
containing less								
than 1% crystalline								
silica	61790-53-2							
Silica, crystalline	14464-46-1	See §	1910.10	53				
cristobalite (as								
quartz), respirable								
dust								
Silica, crystalline	14808-60-7	See §	1910.10	53				
quartz (as quartz), respirable dust	entraction of the state of	endine H	ann an milate an a	manifolis				

Limits for Air Contaminants (Continued)

5	Air Contaminant Limits**									
	CAS No.b	PEL-TWA*		PEL-STELa		PEL-CEILING		Skin Desig-		
Substance		ppmc	mg/m ³⁰	l ppmc	mg/m3d	ppmc	mg/m ^{3c}	nation i		
Silica, crystalline tripoli (as quartz), respirable dust	1317-95-9	See §	31910.10)53						
Silica, crystalline tridymite (as quartz), respirable dust	15468-32-3	See §	1910.10)53						
Silica, fused, respirable dust Silicates (less than 1% crystalline silica)	60676-86-0	-	0.1	-	=	o rs e	=			
Mica (respirable	12001-26-2	See T	able Z-	-3						
Soapstone, total dust		See T	able Z-	-3						
Soapstone, respirable dust	7	See T	able Z-	-3						
Talc (containing asbestos): use asbestos limit	2-1	See §	1910.10	001						
Talc (containing no asbestos), respirable dust	14807-96-6	See T	able Z-	-3						
Tremolite Silicon	7440-21-3	See §	1910.10	001						
Total dust	7440 ZI 3	=	10		20	(50)	=	100g 177		
Respirable fraction Silicon carbide	409-21-2		5	_	<u>1700)</u>		-			
Total dust			10 5	1900	20	6 8	1550			
Respirable fraction Silicon tetrahydride (Silane)	7803-62-5	5	7	_	_	_	_	_		
Silver, metal and soluble compounds (as Aq)	7440-22-4	#	0.01	*	<u> </u>	₩	<u>700</u>			
Soapstone		See S	ilicate	s						
Sodium azide	26628-22-8					1000				
(as HN ₃)		-		±±		0.1		X		
(as NaN3) Sodium bisulfite	7631-90-5		- 5	en e	## ·	(-))	0.3	X		
Sodium 2,4-dichloro- phenoxyethyl sulfate	7631-90-3			- bicide	(see Se	sone)	_			
Sodium fluoroacetate	62-74-8	=	0.05	=	0.15	s = s	-	X		

Limits for Air Contaminants¹ (Continued)

Air Contaminant							imits**			
	_	PEL-T	WA*	PEL-ST	ELa	PEL-CEILING		Desig-		
Substance	CAS No.b	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰	nation i		
Sodium hydroxide	1310-73-2	_	::—::	-	_	2 3	2	-		
Sodium metabisulfite	7681-57-4	_	5	=	-	-	-	=		
Starch	9005-25-8									
Total dust			10	-	20	(i—(i)	=	-		
Respirable fraction		-	5	1 111	,	1000	5 50	200		
Stibine	7803-52-3	0.1	0.5	0.3	1.5	-	-	-		
Stoddard solvent	8052-41-3	100	525	1994	-	S	-	-		
Strychnine	57-24-9	-	0.15		0.45	: :	1000	=		
Styrene, monomer	100-42-5	50	215	100	425	(-)	500 III	223		
Subtilisins	9014-01-1	_	-	184	0.0000	6	1	-		
(Proteolytic					(60 min	a) j				
enzymes)										
Sucrose	57-50-1									
Total dust		-	10	-	20	()	-	-		
Respirable fraction		=	5	200	500	=	24	-		
Sulfotep;		See T	EDP							
Sulfur dioxide	7446-09-5	2	5	5	10	S-3	-	-		
Gulfur hexafluoride	2551-62-4	1,000	6,000	1,250	7,500	a o'''	1 110	-		
Sulfuric acid	7664-93-9	=	1	500 100 100 100 100 100 100 100 100 100	3	-	-	-		
Sulfur monochloride	10025-67-9	-	-	3	18	1	6	_		
Sulfur pentafluoride	5714-22-7	=	7 	0.075	0.75	0.01	0.1	æ		
Sulfur tetrafluoride	7783-60-0	=	=	0.3	1	0.1	0.4	-		
Sulfuryl fluoride	2699-79-8	5	20	10	40	::	-	_		
Sulprofos	35400-43-2	_	1	-	-	1. 1	-	=		
Systox ^R	00100 10 1	See D	emeton :	2.4.5-T						
'alc			ilicate							
antalum, metal	7440-25-7	-	5	- : :(c)	10	-		=		
and oxide dust	7110 20 7		· ·							
EDP (Sulfotep)	3689-24-5		0.2	5 <u>445</u>	0.6	_	1944	X		
ellurium and	13494-80-9	-	0.1	-	_	_	-	_		
compounds (as Te)	13131 00 3		0.1							
'ellurium hexafluoride	7783-80-4	0.02	0.2	9 <u>20</u>	<u> </u>	_	200	-		
(as Te)	1105 00 1	0.02	0.2							
'emephos	3383-96-8									
Total dust	3303 30 0	-	10	1922	20	_	<u> </u>	-		
Respirable fraction			5	-	-		-	_		
EPP	107-49-3	0.004		0.01	0.2		_	X		
	26140-60-3	-	-	-	-	0.5	5	=		
'erphenyl			4,170	625	5,210	-	-	_		
,1,1,2-Tetrachloro- 2,2-difluoroethane	76-11-9	500	4,110	UZJ	0,210					
	76-12-0	500	4,170	625	5,210	Yacas	427	<u>943</u>		
1,2,2-Tetrachloro-	10-12-0	500	4,1/0	023	0,210	_				
1,2-difluoroethane ,1,2,2-Tetrachloro-	70 24 5	1	7				_	V		
/ /-Terrach oro-	79-34-5	1	7	-	100	3 7.5 0	- T	X		
ethane										

Limits for Air Contaminants¹ (Continued)

		Air Contaminant Limits**							
	_	PEL-TWA*		PEL-S	rela	PEL-CEILING		Skin Desig- nation	
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m ^{3d}	ppmc	mg/m ³⁰		
Tetrachloromethane		See C	arbon te	etrach]	loride				
Tetrachloronaphthalene	1335-88-2	. 	2		4	-	2 00	X	
Tetraethyl lead (as Pb)	78-00-2	22	0.075k		0.3k	1000	P\$	X	
Tetrahydrofuran	109-99-9	200	590	250	735	0.500	Reserve	=	
Tetramethyl lead, (as Pb)	75-74-1	111	0.075k		0.5k	(<u></u>)	<u>~</u>	Х	
Tetramethyl succino- nitrile	3333-52-6	0.5	3	2	9	S int s	-	X	
Tetranitromethane Tetrasodium pyro-	509-14-8	1	8		<u>(2000)</u>	S M S	}- 1	-	
phosphate	7722-88-5	1777	5	_		-	-	_	
<pre>Tetryl (2,4,6- Trinitrophenyl- methyl-nitramine)</pre>	479-45-8	_	1.5	_	_	: :	=	Х	
Thallium, soluble compounds (as Tl)	7440-28-0	<u></u>	0.1	1 <u>1</u>	<u>~</u>		144	X	
4,4'-Thiobis (6-tert, butyl-m-cresol)	96-69-5								
Total dust		-	10		20	-		-	
Respirable		=	5		=	1.00	(50)		
fraction	CO 11 1	9						Х	
Thioglycolic acid	68-11-1	1	4		_	1	5	_	
Thionyl chloride Thiram	7719-09-7 137-26-8	_	1			±	2		
Tin, inorganic compounds (except oxides) (as Sn)	7440-31-5	=	2	-	4		×	-	
Tin, organic compounds (as Sn)	7440-31-5	-	0.1		0.2	_	; = 0	X	
Tin oxide (as Sn) Titanium dioxide	21651-19-4 13463-67-7	=	2	-	4	= 3	-	=	
Total dust		-	10	9 - 8	20	===	() - ()2	1 15-1 36-21	
Toluene (Toluol)	108-88-3	100	375	150	560	=	-	X	
Toluene di- isocyanate (TDI)	584-84-9	0.005		0.02	0.15		-		
m-Toluidine	108-44-1	2	9	-	=	=	-	X	
o-Toluidine	95-53-4	5	22	3 <u>—</u> 3	120	_	# 2:	X	
p-Toluidine Toxaphene Tremolite	106-49-0		9 hlorina ilicate		- mphene	-	3 .— 3	X	
Tributyl phosphate	126-73-8	0.2	2.5	0.4	5	-		5 	
Trichloroacetic acid	76-03-9	1	5	-	-	-	·	_	
1,2,4-Trichlorobenzene	120-82-1	# #	-	-	<u> </u>	5	40	1000	
1,1,1-Trichloroethane		See M	ethyl c	hlorof	orm				

Limits for Air Contaminants¹ (Continued)

,	Air Contaminant Limits**							
	_	PEL-T	WA*	PEL-ST	ELa	PEL-C	EILING	Desig-
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m ^{3d}	ppmc	mg/m ^{3c}	nation l
1,1,2-Trichloroethane	79-00-5	10	45	20	90	-	-	X
Trichloroethylene Trichloromethane	79-01-6	50 See Cl	270 hlorofo	200 rm	1,080	-	(2)	
Trichloronaphthalene	1321-65-9	1000	5	2 2	10	S S	=	X
1,2,3-Trichloropropane	96-18-4	10	60	75	450	-		X
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1,000	7,600	1,250	9,500	3241	1200	-
Triethylamine	121-44-8	10	40	15	60	1	-	=
Trifluorobromomethane	75-63-8	1,000	6,100	1,200	7,300 -	40	(144	-
Trimellitic anhydride	552-30-7	0.005		1 0 0		0-0	-	-
Trimethylamine	75-50-3	10	24	15	36	N era d	£	8
Trimethyl benzene	25551-13-7	25	125	35	170	_	(==	<u></u>
Trimethyl phosphite	121-45-9	2	10	5	25	-	-	-
2,4,6-Trinitrophenyl 2,4,6-Trinitrophenyl methyl nitramine			icric ad		ATTENDED TO			
2,4,6-Trinitrotoluene (TNT)	118-96-7	-	0.5	-	=	N ame (=	X
Triorthocresyl phosphate	78-30-8	-	0.1	-	-	0 → 0	-	X
Triphenyl amine	603-34-9	=	5	-	(2)	-	<u> </u>	15.7
Triphenyl phosphate	115-86-6	-	3	H <u>e11</u>	6	8 — 8	-	X
Tungsten (as W)	7440-33-7				,			
Insoluble compounds	, 110 00 ,	_	5	Œ	10	-	124	_
Soluble compounds		-	1	324	3	5 3	-	-
Turpentine	8006-64-2	100	560	150	840	: :	-	-
Uranium (as U)	7440-61-1	100	0.00	100	0.10			
Soluble compounds	, 110 01 1		0.05	8 <u>211</u>	1250	8-40	-	-
Insoluble compounds		-	0.2	_	0.6	2 - 2	-	-
n-Valeraldehyde	110-62-3	50	175	_	-		22	_
Vanadium	1314-62-1	00	1,0					
Respirable dust (as V ₂ O ₅)	-	0.05	25 2	-	-	31 — 0	-	-
Fume (as V ₂ O ₅)	White	0.05) <u>(</u>	122	400	(<u>-</u>	=	
Vegetable oil mist	5 3							
Total dust	5 5	10	-	_	_	(-	
Respirable fraction	-	5		124	_	-	_	
Vinyl acetate	108-05-4	10	30	20	60	0-0	-	-
Vinyl decease Vinyl benzene	200 00 1		tyrene		. 			
Vinyl benzene Vinyl bromide	593-60-2	5	20	-	2	11_2	<u>~~</u>	<u> </u>
Vinyl chloride	75-01-4		1910.101					
Vinylcyanide	OT 4		crylonit					
Vinyl cyclohexene	106-87-6	10	60			_	122	X
dioxide	100 01-0	10	30	767	990	15207	6200	23

Limits for Air Contaminants1 (Continued)

		Air Contaminant Limits**							
	_	PEL-T	WA*	PEL-S'	rela	PEL-CEILING		Desig-	
Substance	CAS No.b	ppmc	mg/m3d	ppmc	mg/m3d	ppmc	mg/m ³⁰	nation d	
Vinylidene chloride (1,1-Dichloro- ethylene)	75-35-4	1	4	-	-	.—.	=	-	
Jinyl toluene	25013-15-4	50	240	100	485	:=:	-	 2	
VINYI tordene VM & P Naphtha	8032-32-4	300	1,350	400	1,800	-	-	<u></u>	
Varfarin	81-81-2	-	0.1	_	0.3	_	-		
Welding fumes (total	-	_	5	-	-	8-0	-		
particulate) Wood dust:									
Certain hardwoods as beech & oak	=	=	1.	=	=	-	=	201 1	
All soft woods, (except Western red cedar)	3	-	5		10	-	-	_	
Wood dust, Western red cedar	=	e	2.5	H			_	-	
<pre>(ylenes (o-, m-, p- isomers</pre>	1330-20-7	100	435	150	655		=	Χ	
n-Xylene $lpha$, $lpha$ '- diamine	1477-55-0	==	ri ≡z h	=	Ħ	-	0.1	Х	
Kylidine	1300-73-8	0.5	2.5	:		S S	3	X	
/ttrium	7440-65-5	575	1	0.00	3	-		=	
Zinc chloride fume	7646-85-7	_	1	1944	2	-	100	-	
Zinc chromate (as CrO3)	Varies with Compound	-	0.01	-	-	89—51	0.1	_	
Zinc oxide fume Zinc oxide	1314-13-2 1314-13-2	- 4	5	1922	10	-	-	-	
Total dust		-	10	2 	=	Ki ral g	3 71	70	
Respirable fraction Linc stearate	557-05-1	-	5	-	ω	(44)	-	-	
Total dust			10	-	20	-	-	200	
Respirable fraction		÷	5		-	1	100		
Zirconium compounds (as Zr)	7440-67-2	<u>===</u>	5	-	10) (== 0	: - :	-	

Footnotes to Exhibit A:

Air Contaminant Rule Limits are the most restrictive of the federal limits, ACGIH limits and existing HIOSH limits.

^{*} The PEL-TWA's are 7- to 8-hour TWA's, unless otherwise noted.

^{**} Unless otherwise noted, employers in General Industry (i.e., those covered by Part 2 of the HIOSH standards) may use any combination of controls to achieve these limits, until December 31, 1992.

a. STEL duration is for 15 minutes, unless otherwise noted.

b. The CAS number is for information only. Enforcement is based on the substance name. For an entry covering more than one metal compound measured as the metal, the CAS number for the metal is given--not the CAS numbers for the individual compounds.

- c. Ppm are in parts of vapor or gas per million parts of contaminated air by volume at 25°C and 760 torr.
- d. Mg/m^3 are approximate milligrams of substance per cubic meter of air.
- e. The final benzene standard in section 1910.1028 applies to all occupational exposures to benzene except some sub segments of industry where exposures are consistently under the action level (e.g., distribution and sale of fuels, sealed containers and pipelines, coke production, oil and gas drilling and production, natural gas processing, and the percentage exclusion for liquid mixtures); for the excepted sub segments, the benzene limits in Exhibit B apply.
- f. Coal tar pitch volatiles mean the fused polycyclic hydrocarbons that volatilize from the distillation residues of coal, petroleum, (excluding asphalt, CAS 8052-42-4 and CAS 64742-93-4), wood, and other organic matter.
- g. Cotton dust refers to lint-free dust as measured by the vertical elutriator, cotton-dust sampler described in the Transactions of the National Conference on Dust, p. 33 by J.R. Lynch, (May 2, 1970). The PEL-TWA in the exhibit applies to respirable dust as measured by a vertical elutriator cotton dust sampler or equivalent instrument. The time-weighted average applies to the cotton waste processing operations of waste cycling (sorting, blending, cleaning, and willowing) and garreting. See also section 1910.1043.
- h. Fibrous glass dust means particles $<7\mu m$ in diameter.
- i. Oil mist as sampled by a method that does not collect vapor.
- j. Compliance with the Subtilisins PEL-TWA is assessed by sampling with a high volume sampler (600-800 liters per minute) for at least 60 minutes.
- k. For control of tetraethyl lead and tetramethyl lead in general room air, biologic monitoring is essential for personnel monitoring.
- 1. Most Occupational exposures to EGDN actually involve mixtures of EGDN and nitroglycerin (NG). This EGDN:NG mixture has a PEL-STEL of 0.1 mg/m^3 .
- m. See Exhibit B from the exposure limits for any operations or sectors where the exposure limits in 29 C.F.R. §1910.1026 are stayed or otherwise not in effect.
- n. If the exposure limit in 29 C.F.R. \$1910.1026 is stayed or is otherwise not in effect, the exposure limit is ceiling of 0.1 mg/m^3 .

EXHIBIT B (July 1, 2017) MORE LIMITS FOR AIR CONTAMINANTS

Material	Industry Segments	Skin Design- nation	8-hour time- weighted average	Ceiling concentra- tion
Benzene	(Z37.40-1969) ¹	=	10 ppm	25 ppm
Beryllium and Beryllium Compounds	(Z37.29-1970)	-	0.002 ppm	0.005 ppm
Chromic acid and Chromates (as CrO ₃) ²	(Z37.7-1971)			1mg/10m ³
Ethylene Dibromide	(Z37.31-1970)	X	20 ppm	30 ppm
Methyl chloride	(Z37.18-1969)	-	100 ppm	200 ppm

This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 29 C.F.R \$1910.1028 This standard also applies to any industry for which 29 C.F.R \$1910.1028 is stayed or otherwise not in effect.

This standard applies to any operations or sectors for which the Hexavalent Chromium standard, 29 C.F.R §1910.1026 is stayed or otherwise is not in effect."

5. Chapter 12-110, Hawaii Administrative Rules, entitled "General Safety and Health Requirements", is amended and compiled to read as follows:

"HAWAII ADMINISTRATIVE RULES

TITLE 12

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISION

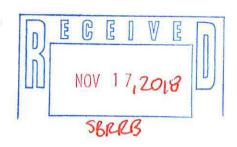
PART 3

CONSTRUCTION STANDARDS

CHAPTER 110

GENERAL SAFETY AND HEALTH REQUIREMENTS

\$12-110-1	Application
\$12-110-2	Safety and health programs
§12-110-3	Safety and health inspections
\$12-110-4	Employee responsibilities
§12-110-5	Removal of safety devices
\$12-110-6	Use of intoxicants or drugs
§12-110-7	Requirements of competence
\$12-110-8	Requirement of quality
	E)



\$12-110-1

\$\$12-110-9 to 12-110-49 (Reserved) \$12-110-50 Standards

<u>Historical Note:</u> Chapter 110 of title 12 is based upon chapter 201 of the Hawaii Occupational Safety and Health Standards, Rules and Regulations. [Eff 7/11/74; am 6/7/76; am 12/30/76]

\$12-110-1 Application. The general requirements of any chapter in part 3 shall not be used when there are more specific requirements in any other chapter in part 3. For the purposes of this part, construction work means work for construction, alteration, demolition, or repair including painting and decorating, erection of new electric transmission and distribution lines and equipment, and the alteration, conversion, and improvement of the existing transmission and distribution lines and equipment.

[Eff 7/12/82; am 8/5/88; am 11/2/12; comp

[(Auth: HRS §396-4) (Imp: HRS §396-4)

§12-110-2 Safety and health programs. (a) Scope and application. This [standard] section shall apply to all employers with employees doing business in the State.

- (1) Every employer shall comply with the [State] state laws and standards regarding a safe place of employment and safe practices, and shall do everything reasonable and necessary to protect the life, safety, and health of the employees.
- (2) Employers involved with construction or related activities shall provide safe and healthful work places and practices that

- protect the employees and the affected general public as well.
- Every employer shall effect safe work places and practices by eliminating, mitigating, or protecting against existing or potential hazards. Elimination by design, process substitution, or other appropriate methods is preferred because it obviates the need for further employee protection. Modification, using such methods as engineering or administrative controls, isolation, and guarding, shall be used to reduce existing hazards. When this mitigation is feasible, it shall be effected expeditiously, with personal protective equipment required until an acceptable reduction of the hazard in the situation or condition is reached. Whenever it is not feasible to eliminate or reduce hazards to acceptable levels or where hazards continue to exist, personal protective equipment shall be provided and used.

[Exception:] Exception: Employers with less than [25] twenty-five (25) employees and not doing contract work with the State [of Hawaii] worth in excess of \$100,000 need not comply with subsection (b) (1) [below].

- (b) Employer duties and responsibilities. An employer subject to this [standard] chapter shall meet the following requirements:
 - (1) Written safety and health program.
 - (A) The employer shall institute and maintain an effective safety and health program to identify, evaluate and control workplace hazards. Employer safety and health programs that were developed prior to the promulgation of this standard may be used to satisfy this requirement so long as they meet the criteria for an acceptable program set forth in subparagraph (B) [below].
 - (B) The program shall at a minimum:

- (i) Set forth policies, procedures, and practices that recognize and protect employees from Occupational Safety and Health hazards.
- (ii) Establish and communicate a clear goal for the safety and health program and the mechanisms which will be utilized in meeting this goal.
- (iii) Provide for visible top management leadership in implementing the program and ensure that all workers at the site, including contract workers, are provided equally high quality safety and health protection, so that all will understand that management's commitment is serious.
- (iv) Provide for and encourage employee involvement in the structure and operation of the program and in decisions that affect their safety and health, so that they will commit their insight and energy to achieving the safety and health program's goal and objectives. Involvement shall be accomplished through employee collective bargaining units, where appropriate.
- (v) Assign and communicate responsibilities for all aspects of the safety and loss prevention program to managers, supervisors, and employees so that they all know and understand what is expected of them in the implementation of the program.

- (vii) responsibilities under the safety
 and health program.
- (viii) Provide a reliable system for employees to notify management personnel or safety and health committee members of conditions that appear hazardous or of [non-compliance] noncompliance with the terms of the safety and health program without fear of reprisal and provide a mechanism to ensure timely and appropriate responses to correct these conditions.
 - (ix) Provide a mechanism to investigate accidents and "near miss" incidents, so that the root cause and means for preventing a recurrence are identified. For the purposes of this [rule,] chapter, the term "accident" means any unexpected happening that interrupts the work sequence or process and that may result in injury, illness, or property damage.
 - (x) Provide a means to review injury and illness trends over time, so that patterns with common causes can be identified and eliminated.
 - (xi) Establish a mechanism for the employer to conduct ongoing, periodic in-house safety and health inspections so that new or previously missed hazards or failures in controls are identified. Inspections shall be conducted with a frequency necessary to be effective but in no event with less frequency than that established in section 12-110-3.

- (xii) Address the impact of emergency situations and develop written plans and procedures to insure employee safety during emergencies. For the purpose of this standard, the term "emergency situation" means an unforeseen single event or combination of events that calls for immediate action to prevent, control, or contain injury or illness to person or damage to property.
- (xiii) Establish procedures for transmitting and enforcing safe work practices in the workplace through training, positive reinforcement, such as a reward system, public recognition, etc., correction of unsafe performance, and, if necessary, reinforcement of work practices through a clearly defined and communicated disciplinary system.
- (C) The program shall be made available to the employees or their collective bargaining agent or both, upon request.
- (2) Safe work practices.
 - (A) The employer shall eliminate or control all existing and potential hazards within the workplace in a timely manner, using one or more of the following:
 - (i) Engineering and work practice controls designed to control employee exposures to safety and health hazards by modifying the source to reduce exposure.
 - (ii) Administrative controls designed to control employee exposure to safety and health hazards.

- (iii) Requirements for the distribution and proper use of personal protective equipment.
- (iv) A program of medical examinations or evaluations conducted by a qualified physician or health practitioner when required by a standard.
- (B) The employer shall ensure that practices are understood by all employees and are underscored through training, positive reinforcement, correction of unsafe performance, and, if necessary, through a clearly defined and communicated disciplinary system.
- (3) Periodic inspections. The employer shall conduct periodic in-house safety and health inspections so that new or previously missed hazards or failures in engineering, work practice, and administrative controls are identified. The in-house inspections will be conducted by individuals who are trained to recognize hazardous conditions, as members of the safety and health committee or a person designated and trained by the employer for the facility's safety and health program.
- (4) Safety and health training.
 - (A) The employer shall develop and institute a safety and health-training program for all employees so they have an understanding of the hazards to which they may be exposed, and the procedures or practices needed to protect them from these hazards.
 - (B) In addition, supervisors and managers shall be trained in the elements of the employer's safety and health program and in the specific responsibilities assigned to them under the program.
 - (C) The employer shall ensure that the supervisors and managers understand

their responsibilities under the safety and health program and their importance to the safety and health of the workplace. In particular, the training for managers and supervisors shall enable them to:

- (i) Recognize potential hazards;
- (ii) Maintain safety and health protection in the work area; and
- (iii) Reinforce employee training on the nature of the potential hazards and required protective measures.
- (c) The use of any machinery, tool, material, or equipment that is not in compliance with any applicable requirement of the standards of part 3 of this [title] subtitle is prohibited. The machine, tool, material, or equipment shall either be:
 - (1) Identified as unsafe by tagging or locking the controls to render it inoperable; or
 - (2) Removed from its place of operation.
- (d) The employer shall permit only those employees qualified by training or experience to operate equipment and machinery.
- (e) Accidents shall be reported in accordance with [\$12-52-8.] chapter 12-52.1.
- (f) Prime contractor and [sub-contractor] subcontractor responsibilities.
 - (1) By contracting for full performance of a contract, the prime contractor assumes all obligations prescribed as employer responsibilities under the law, whether or not any part of the work is subcontracted.
 - (A) Where one contractor is selected to execute the work of a project, that contractor shall ensure compliance with the requirements of the standards of part 3 of this [title] subtitle from the contractor's own employees as well as from all [sub-contractor] subcontractor employees on the project.
 - (B) Where the owner-builder, acting as the general contractor, selects another

person or persons to perform the work of a project, the owner-builder shall be responsible, or shall designate one [particular] person to be responsible, for providing the general safeguarding as well as gaining compliance with the requirements of the standards of part 3 of this [title] subtitle from all other persons engaged in the operation of the project.

- (2) Independent of any prime contractor's responsibilities, the [sub-contractor] subcontractor has responsibility for occupational safety and health for the [sub-contractor's] subcontractor's operation.

 That is, the [sub-contractor] subcontractor accepts responsibility for the [sub-contractor's] subcontractor's portion of the work while the prime contractor assumes the entire responsibility for the project.
- (3) Where joint responsibility exists, both the prime and [sub-contractors] subcontractors are subject to the enforcement provisions of the law; therefore, because of possible overlapping responsibilities, both may be cited for violations.
- (g) All safety devices and safeguards in use shall be kept sound and operable.
- (h) Any employee having knowledge of the existence of any unsafe device, practice, operation, safeguard, equipment, or condition shall promptly report it to the supervisor or person in charge. A supervisor or person in charge to whose attention the existence of any unsafe device, practice, operation, safeguard, equipment, or condition is called shall take immediate steps to correct the unsafe condition or practice. [Eff 7/12/82; am 9/27/84; am 8/5/88; am 9/21/96; am and comp] (Auth: HRS \$396-4) (Imp: HRS \$396-4)

\$12-110-3 Safety and health inspections. (a) The general contractor of every construction or demolition project on which employees are engaged shall arrange to have inspections made during the period of the project for the purpose of assuring compliance with the Hawaii Occupational Safety and Health Law. Where there is no general contractor, the owner shall be responsible or shall designate one particular contractor to be responsible to perform the necessary safety inspections.

- (b) Inspections shall be conducted with sufficient quality, frequency, and scope to identify recognized hazards and ensure their correction in order to prevent workplace injuries, illnesses and fatalities. At minimum, inspections shall be in accordance with this schedule:
 - (1) Projects employing [+] one (1) to [99]

 ninety-nine (99) persons, at any single moment in the work day, shall have an employee assigned to make at least one inspection each workday;
 - (2) Projects employing [100] one hundred (100) to [199] one hundred ninety-nine (199) persons shall have two employees assigned, each to make at least one inspection each work day; and
 - (3) Projects employing [200] two hundred (200) or more persons shall have one additional designated employee for each [300] three hundred (300) persons above [1997] one hundred ninety-nine (199) each to make at least one inspection each workday.
- (c) Written records of the daily safety and health inspections shall be kept on the project site for review by the director for the duration of the project. Inspection records shall include, at minimum, the following:
 - (1) The date and start time of the inspection;
 - (2) The name of the employee conducting the inspection;
 - (3) The scope (project areas) of the inspection, including the names of all contractors and

- subcontractors covered by the scope of the inspection;
- (4) A brief description of all potential and actual hazards noted during the inspection;
- (5) Name and title of the person responsible for correcting the identified hazards noted during the inspection;
- (6) Information regarding how the hazard was eliminated, corrected, or abated including the inspector's recommendations for preventing the recurrence of the hazards.
- (d) Warning signs shall be posted prohibiting unauthorized persons from operating potentially hazardous machines or equipment. [Eff 7/12/82; am 9/27/84; am 11/2/12; am and comp]
 (Auth: HRS §396-4) (Imp: HRS §396-4)
- §12-110-5 Removal of safety devices. No person shall remove, displace, damage, destroy, or carry off any safety device, safeguard, notice, or warning furnished for use in any employment or place of employment. [Eff 7/12/82; am 9/27/84; comp

 [Auth: HRS §396-4) (Imp: HRS §396-4)

\$12-110-6

\$12-110-6 Use of intoxicants or drugs. No person shall be permitted to work under the influence of intoxicants or drugs and shall be removed from the work premises if found under the influence of intoxicants or drugs. [Eff 7/12/82; am 9/27/84; comp] (Auth: HRS \$396-4) (Imp: HRS \$396-4)

§12-110-7 Requirements of competence. When work is to be performed by or under the supervision of a designated person, that person shall have the degree of competence necessary to perform or direct the work in a safe manner. [Eff 7/12/82; comp

[Auth: HRS §396-4) (Imp: HRS §396-4)

[\$12-110-9] §\$12-110-9 to 12-110-49 Reserved.

§12-110-50 Standards. (a) Incorporation of federal standard. Title 29, Part 1926 of the Code of Federal Regulations, [2012] 2017 Edition published as of July 1, [2012,] 2017, by the U.S. Government

Printing Office, U.S. Superintendent of Documents, Washington, DC 20402-0001, is made a part of this chapter except as provided in [subsection] subsections (b) through (e).

- (b) State specific standards. The following standards are in effect in addition to subsection (a). Where standards on a particular item exist for both subsection (a) and this subsection, the standards contained in this subsection supersede the standards in subsection (a).
 - (1) [29 C.F.R. 1926.32] <u>29 C.F.R. §1926.32</u> is amended by adding the following definitions:

"Barricades" means an obstruction to deter the passage of persons or vehicles.

"Dwelling" means any building that contains one or two dwelling units used, intended, or designed to be built, used, rented, leased, let or hired out to be occupied, or that are occupied for living purposes.

"Dwelling unit" means a single unit providing complete independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking, and sanitation.

"Infeasible" means that it is impossible to perform the work using all available means and methods or that it is technologically impossible to use safety equipment or safe practices.

"Residential construction" means construction work on detached one- and two-family dwellings and townhouses not more than three stories above grade plane in height.

["Signs" are the warnings of hazard, temporarily or permanently affixed or placed, at locations where hazards exist.]

"Signals" are moving signs, provided by workers, such as flaggers, or by devices, such as flashing lights, to warn of possible or existing hazards.

"Signs" are the warnings of hazard, temporarily or permanently affixed or placed, at locations where hazards exist.

"Tags" are temporary signs, usually attached to a piece of equipment or part of a structure, to warn of existing or immediate hazards.

"Townhouse" means a single-family dwelling unit constructed in a group of three or more attached units in which each unit extends from foundation to roof.

- (2) [29 CFR 1926.200(g)(2)] <u>29 C.F.R.</u> <u>\$1926.200(g)(2)</u> is amended to read as follows:
- [(A)]All traffic control signs or devices used for protection of construction workers shall conform to Part VI of the Manual of Uniform Traffic Control Devices (AMUTCD), Part VI of the Manual on Uniform Traffic Control Devices, Millennium Edition, December 2000, FHWA, which is incorporated by reference. The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and [1 CFR part 51.] 1 C.F.R. part 51. You may obtain a copy of the Millennium Edition from the following organizations: American Traffic Safety Services Association, 15 Riverside Parkway, Suite 100, Fredericksburg, VA 22406-1022; Telephone: 1-800-231-3475; FAX: (540) 368-1722; www.atssa.com; Institute of Transportation Engineers, 1099 14th Street, NW., Suite 300 West, Washington, DC 20005-3438; FAX: (202) 289-7722; www.ite.org; and American Association of State Highway and Transportation Officials; www.aashto.org; Telephone: 1-800-231-3475; FAX: 1-800-525-5562. Electronic copies of the MUTCD 2000 are available for downloading at ttp://mutcd.fhwa.dot.gov/knomillennium. document is available for inspection at the OSHA Docket Office, Room N2625, U.S. Department of Labor, 200 Constitution Avenue, NW., Washington, DC 20210 or at the Office of the Federal Register, 800 North

- Capitol Street, NW., Suite 700, Washington, DC.
- (3) The following requirements [have been] are added to [29 CFR,] 29 C.F.R., Part 1926, Subpart R:
 - (A) Personnel employed in steel erection shall <u>always</u> wear hard hats [at all times] while on the job site.
 - (B) Protective footwear as defined in ANSI Z41-1999, shall <u>always</u> be worn [at all times] while on the job site.
 - (C) Gloves, special protective clothing, respirators, and any other personal protective equipment shall be worn as necessary.
 - (D) There shall be maintained at the site a record of the identity of the Structural Engineer of Record (SER), all qualified persons and their area of expertise, and all competent persons for the steel erection activity.
 - (E) All approvals, certifications, authorizations, drawings, and plans required by this chapter shall be maintained onsite until all steel erection activity is completed.
- (4) The following definitions in [29 CFR 1926.751] <u>29 C.F.R. §1926.751</u> [have been] are amended to read as follows:

"Hole" means a gap or void more than [2] two (2) inches (5.1 cm) in its least dimension in a floor, roof, or other walking/working surface. Pre-engineered holes in cellular decking (for wires, cables, etc.) are not included in this definition. "Opening" means a gap or void [5] five (5) inches (12.7 cm) or more in its least dimension in a floor, roof, or other walking/working surface. For the purposes of this subpart, skylights and smoke domes that do not meet

the strength requirements of [section 1926.754(e)(3)] 29 C.F.R. §1926.754(e)(3) shall be regarded as openings.

(5) [29 CFR 1926.752(a)] <u>29 C.F.R. \$1926.752(a)</u> is amended to read as follows:

Approval to begin steel erection. Before authorizing the commencement of steel erection, the controlling contractor shall ensure that there are steel erection drawings that are structure specific and a site-specific erection plan as required. In addition, the steel erector is to be provided with the following written notifications, including the documentation supporting the determinations:

- (A) The concrete in the footings, piers, and walls and the mortar in the masonry piers and walls has attained, on the basis of an appropriate ASTM standard test method of field-cured samples, either [75 percent] seventy-five (75) per cent of the intended minimum compressive design strength or sufficient strength to support the loads imposed during steel erection.
- (B) Any repairs, replacements, and modifications to the anchor bolts were conducted in accordance with [section 1926.755(b)] 29 C.F.R. §1926.755(b).
- (6) [29 CFR 1926.752(b)] <u>29 C.F.R. §1926.752(b)</u> is amended to read as follows:

Commencement of steel erection. A steel erection contractor shall not erect steel unless it has received written notification and documentation supporting the determination that the concrete in the footings, piers, and walls or the mortar in the masonry piers and walls has attained, [on the basis of] based on an appropriate ASTM standard test method of field-cured

samples, either [75] seventy-five (75) percent of the intended minimum compressive design strength or sufficient strength to support the loads imposed during steel erection.

(7) [29 CFR 1926.752(d)] <u>29 C.F.R. §1926.752(d)</u> is amended to read as follows:

Pre-planning of overhead hoisting operations. All hoisting operations in steel erection shall be pre-planned by the controlling contractor to ensure that the requirements of [section 1926.753(d)] 29 C.F.R. §1926.753(d) are met.

(8) [29 CFR 1926.752(e)] <u>29 C.F.R. \$1926.752(e)</u> is amended to read as follows:

[Site-specific] Site specific erection plan. Where employers elect, due to conditions specific to the site, to develop alternate means and methods that provide employee protection in accordance with [sections] [1926.753(c)(5), 1926.754(b)(1) & (2),1926.756(a)(1), 1926.756(b), 1926.757(a)(2), 1926.757(a) (4), 1926.757(e) (4), or 12-110-50(c), 29 C.F.R. \$1926.753(c)(5), \$1926.754(b)(1) and (2), \$1926.756(a)(1), \$1926.756(b), \$1926.757(a)(2), \$1926.757(a)(4), \$1926.757(e)(4), or 12-110-50(c), a [site-specific] site specific erection plan [which] that includes structure specific erection plans and drawings where applicable shall be developed by a qualified person and be available at the work site until all steel erection activity is completed. Guidelines for establishing a [site-specific] site specific erection plan are contained in 29 C.F.R. 1926 Subpart R Appendix A [to this section.].

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(9) [29 CFR 1926.753(c)(1)(i)] 29 C.F.R. §1926.753(c)(1)(i) is amended to read as follows:

Cranes being used in steel erection activities shall be visually inspected prior to each shift by a competent person; the inspection shall include observation for potential deficiencies that may occur during operation. At a minimum this inspection shall include the following:

- (A) All control mechanisms for maladjustments;
- (B) Control and drive mechanism for excessive wear of components and contamination by lubricants, water, or other foreign matter;
- (C) Safety devices, including but not limited to boom angle indicators, boom stops, boom kick out devices, anti-two block devices, and load moment indicators where required;
- (D) Air, hydraulic, and other pressurized lines for deterioration or leakage, particularly those [which] that flex in normal operation;
- (E) Hooks and latches for deformation, chemical damage, cracks, or wear;
- (F) Wire rope reeving for compliance with hoisting equipment manufacturer's specifications;
- (G) Electrical apparatus for malfunctioning, signs of excessive deterioration, dirt, or moisture accumulation;
- (H) Hydraulic system for proper fluid level;
- (I) Tires for proper inflation and condition;
- (J) Ground conditions around the hoisting equipment for proper support, including ground settling under and around

outriggers, ground water accumulation, or similar conditions;

- (K) The hoisting equipment for level position; and
- (L) The hoisting equipment for level position after each move and setup.
- (10) $[\frac{29 \text{ CFR } 1926.753(c)(1)(iv)}{\$1926.753(c)(1)(iv)}] = \frac{29 \text{ C.F.R.}}{\$1926.753(c)(1)(iv)}$ is amended to read as follows:

The operator shall be responsible for those operations under the operator's direct control. Whenever there is any doubt as to safety, the operator shall have the authority to stop and refuse to handle loads, in accordance with section 12-57-7(b), until safety has been assured.

- (11) [29 CFR 1926.753(c)(5)(i)] 29 C.F.R.

 §1926.753(c)(5)(i) is amended to read as follows:

 During the hoisting and placing of purlins and single joists when the rigger, who shall be a qualified rigger, has determined that safety latched on hooks are a greater hazard, or
- (12) [29 CFR 1926.753(d)(1)] 29 C.F.R. §1926.753(d)(1) is amended to read as follows:

Routes for suspended loads shall be preplanned by the controlling contractor to ensure that no employee is required to work directly below a suspended load except for:

- (A) Employees engaged in the initial connection of the steel; or
- (B) Employees necessary for the hooking or unhooking of the load.
- (13) [29 CFR 1926.753(e)(2)] 29 C.F.R. §1926.753(e)(2) is amended to read as follows:

Components of the multiple lift rigging assembly shall be specifically designed and assembled with a maximum capacity for total assembly and for each individual attachment point. This capacity, certified by the manufacturer or a qualified rigger, shall be based on the manufacturer's specifications with a [5 to 1] five (5) to one (1) safety factor for all components. The written certification of the components of the multiple rigging assembly by the manufacturer or qualified rigger along with the documentation supporting the certification shall be made available at the site.

(14) [29 CFR 1926.753(e)(4)(i)] <u>29 C.F.R.</u> <u>§1926.753(e)(4)(i)</u> is amended to read as follows:

The multiple lift rigging assembly shall be rigged with members:
Attached at their center of gravity and maintained level such as by the use of tag lines [+].

(15) [29 CFR 1926.754(b)] <u>29 C.F.R. \$1926.754(b)</u> is amended to read as follows:

The following additional requirements shall apply for [multi-story] multistory structures:

- (A) The permanent floors shall be installed as the erection of structural members progresses, and there shall be not more than eight stories between the erection floor and the upper-most permanent floor, except where the structural integrity is maintained as a result of the design and is included in the site-specific erection plan.
- (B) At no time shall there be more than four <u>(4)</u> floors or [48] <u>forty-eight</u> (48) feet (14.6 m), whichever is less,

of unfinished bolting or welding above the foundation or uppermost permanently secured floor, except where the structural integrity is maintained as a result of the design and is included in the site-specific erection plan.

- (C) A fully planked or decked floor or nets shall be maintained within two stories or [30] thirty (30) feet (9.1 m), whichever is less, directly under any erection work being performed.
- (16) [29 CFR 1926.756(a)(1)] <u>29 C.F.R.</u> <u>§1926.756(a)(1)</u> is amended to read as follows:

During the final placing of solid web structural members, the load shall not be released from the hoisting line until the members are secured with at least two (2) bolts per connection, of the same size and strength as shown in the erection drawings, drawn up wrench-tight or the equivalent as specified by the project structural engineer of record and contained in the [site-specifie] site specific erection plan, except as specified in 29 C.F.R. \$1926.756(b).

(17) [29 CFR 1926.756(b)] <u>29 C.F.R. \$1926.756(b)</u> is amended to read as follows:

Diagonal bracing. Solid web structural members used as diagonal bracing shall be secured by at least one (1) bolt per connection drawn up wrench-tight or the equivalent as specified by the project structural engineer of record and contained in the [site-specific] site specific erection plan.

(18) The following requirement [has been] is added to [29 CFR 1926.756(c)] 29 C.F.R. §1926.756(c):

If a seat or equivalent device is used, its use and the connection method shall be specified in the site-specific erection plan.

(19) [29 CFR 1926.757(a)(2)(i)(D)] 29 C.F.R. §1926.757(a)(2)(i)(D) is amended to read as follows:

Be included in the structure specific erection drawings and site-specific erection plans.

(20) [29 CFR 1926.757(a)(7)] <u>29 C.F.R.</u> <u>\$1926.757(a)(7)</u> is amended to read as follows:

> No modification that affects the strength of a steel joist or steel joist girder shall be made without the written approval of the project structural engineer of record.

(21) [29 CFR 1926.757(d)(6)(i)] <u>29 C.F.R.</u> <u>§1926.757(d)(6)(i)</u> is amended to read as follows:

The bridging shall be indicated on the structure specific erection drawing;

- (22) [29 CFR 1926.760] <u>29 C.F.R. \$1926.760</u> is amended to read as follows:
 - (A) General requirements.
 - (i) Each employee including connectors, engaged in a steel erection activity who is on a walking/working surface with an unprotected side or edge [10] ten (10) feet (3.1 m) or more above a lower level shall be protected from fall hazards by guardrail systems, safety net systems, personal fall arrest systems, positioning device systems or fall restraint systems.
 - (ii) Perimeter safety cables. Or

multi-story structures, perimeter safety cables shall be installed at the final interior and exterior perimeters of the floors as soon as the metal decking has been installed. Perimeter safety cables shall meet the criteria for guardrail systems in 29 C.F.R. 1926 Subpart R Appendix G.

- (iii) Employees performing leading edge work in controlled decking zones shall be protected from fall hazards as provided in subparagraph (B).
- (B) Controlled Decking Zone (CDZ). A controlled decking zone may be established where fall protection systems as described in subparagraph [(A)(1)] (A)(i) have been determined to be infeasible. The burden of proving infeasibility is that of the employer. For each CDZ, the following shall apply:
 - (i) Leading edge work is being performed at heights of [10] ten (10) feet (3.1 m) or more and up to [30] thirty (30) feet (9 m) above the next lower level.
 - (ii) The boundaries of a CDZ shall be designated and clearly marked by control lines or the equivalent.
 - (iii) Control lines provide a visible, tangible reference and constant reminder to employees working in a CDZ.
 - (iv) A control line for a CDZ shall be erected not less than [6] \underline{six} (6) feet (1.8 m) nor more than [90] \underline{ninety} (90) feet (27.4 m) from the leading edge.
 - (v) A control line for a CDZ shall not be more than [90] ninety (90) feet

- (37.4 m) wide.
- (vi) Control lines shall extend along the entire length on the unprotected or leading edge and are approximately parallel to the unprotected or leading edge.
- (vii) Control lines consist of ropes,
 wires, tapes, or equivalent
 materials, and supporting
 structures such as guardrail
 system, wall, stanchion, or other
 suitable anchorage.
- (viii) Each line shall have a minimum
 breaking strength of [200] two
 hundred (200) pounds [(90.0 kg)]
 ninety (90).
 - (ix) Each line shall be rigged and supported in such a way that its lowest point (including sag) is not less than [39] thirty-nine (39) inches (1.0 m) from the walking/working surface and its highest point is not more than [45] forty-five (45) inches (1.3 m) from the walking/working surface.
 - (x) A painted line on the walking/working surface is not equivalent to control lines and may not be used to demonstrate, define, or mark the boundary of a CDZ.
 - (xi) A sign or other warning indicator positioned at the entrance to a CDZ is not an equivalent to control lines and may not be used in lieu of control lines or its equivalent.
 - (xii) Each employee working in a CDZ shall have completed CDZ training in accordance with [section 1926.761] 29 C.F.R. \$1926.761.

- - (xiv) Unsecured decking in a CDZ shall not exceed 3,000 square feet (914.4 m^2) .
 - (xv) Safety deck attachments (see definitions) shall be performed in the CDZ from the leading edge back to the control line and shall have at least two attachments for each metal decking panel.
- (xvi) Final deck attachments and installation of shear connectors shall not be performed in the CDZ.
- (xvii) A current and accurate list of employees who are authorized to work in the CDZ shall be maintained at the site.

 Authorized employees shall further be separately identified such that non-authorized access to the CDZ can be immediately noted and promptly addressed. Employees not authorized to work in the CDZ shall not be permitted to enter the CDZ.
- (C) Criteria for fall protection equipment.
 - (i) Guardrail systems, safety net systems, personal fall arrest systems, positioning device systems, and their components shall conform to the criteria in 29 C.F.R. §1926.502 (see 29 C.F.R. 1926 Subpart R Appendix G [to this chapter]).
 - (ii) Fall arrest system components shall be used in fall restraint systems and shall conform to the criteria in 29 C.F.R. \$1926.502

- (see 29 C.F.R. 1926 Subpart R Appendix G [to this chapter]), except that the anchorages for a fall restraint system shall be capable of supporting at least 3,000 lbs (4.5 kN) per employee attached. Either body belts or body harnesses shall be used in fall restraint systems.
- (iii) Perimeter safety cables shall meet
 the criteria for guardrail systems
 in 29 C.F.R. \$1926.502 (see 29
 C.F.R. 1926 Subpart R Appendix G
 [to this chapter]).
- (D) Custody of fall protection. Fall protection and fall protection components provided by the steel erector shall not remain in the area where steel erection activity has been completed, unless responsibility has been assumed by the controlling contractor or its authorized representative:
 - (i) Has directed the steel erector to leave the fall protection in place; and
 - (ii) Has inspected and accepted control and responsibility of the fall protection prior to authorizing persons other than steel erectors to work in the area.
- (23) [29 CFR 1926.761] <u>29 C.F.R. \$1926.761</u> is amended to read as follows:

The following provisions are supplemental \underline{to} the requirements regarding the hazards addressed in this chapter.

- (A) Training personnel. Training required by this section shall be provided by a qualified person(s).
- (B) Fall hazard training. The employer shall train each employee exposed to a

fall hazard in accordance with the requirements of this section. The employer shall institute a training program and ensure employee participation in the program.

- (i) The recognition and identification of fall hazards in the work area;
- (ii) The use and operation of the fall protection systems to be used by the employer and in the systems that may be encountered on the jobsite; e.g., guardrail systems (including perimeter safety cable systems), personal fall arrest systems, positioning device systems, fall restraint systems, safety net systems, and other protection to be used;
- (iii) The correct procedures for erecting, maintaining, disassembling, and inspecting the fall protection systems to be used;
- (iv) The procedures to be followed to prevent falls to lower levels and through or into holes and openings in walking/working surfaces and walls; and
- (v) The fall protection requirements of this chapter.
- (C) Falling object or [falling/flying]
 falling or flying load hazard training.
 The employer shall provide a training program for all employees exposed to falling object [and/or] or [falling/flying] falling or flying load hazards[-] or both. The program shall include training and instruction in the following areas:
 - (i) How to recognize falling/flying objects hazards in the work area;
 - (ii) The consequences, including the

- likely injuries, from being hit or struck by falling/flying objects or loads;
- (iii) What means, methods, [and/or] or protective systems or combination will be used to provide protection from falling/flying objects or loads;
 - (iv) The employees' specific responsibilities with respect to identifying hazards, identifying when protective systems have been compromised, and what actions to take to assist in their own and other employees' safety.
- (D) Reliance on a third party provider of training. The employer may not rely on a third party or former employer of current employees unless the employer has determined through testing and evaluation of employees that the past training has met the requirements of this chapter. Generic training must be supplemented with site-specific information and an opportunity to practice using the equipment that is specific to the jobsite.
- (E) Retraining. When the employer has reason to believe that any affected employee has already been trained does not have the understanding and skill required by this chapter, the employer shall retrain or provide [re-training] retraining or additional training.

 Circumstances where retraining or additional training is required include, but [is] are not limited to, situations where:
 - (i) Changes in the workplace render previous training obsolete; [or]
 - (ii) Changes in the types of fall protection systems or equipment

- to be used render previous training obsolete; or
- (iii) Inadequacies in an affected employees knowledge or use of fall protection systems, hazard controls, or equipment to be used indicate that the employee had not retained the requisite understanding or skill.
- (F) Special training programs. In addition to the training required in paragraphs(1) and (2), the employer shall provide special training to employees engaged in the following activities.
 - (i) Multiple lift rigging procedure. The employer shall ensure that each employee who performs multiple lift rigging has been provided training in the [following areas:
 - (a) The nature of the hazards associated with multiple lifts; and
 - (b) The proper procedures and equipment to perform multiple lifts required by section 1926.753(e).]

nature of the hazards associated with multiple lifts, and the proper procedures and equipment to perform multiple lifts required by 29 C.F.R. §1926.753(c).

- (ii) Connector procedures. The employer shall ensure that each connector has been provided training in the [following areas:
 - (a) The nature of the hazards associated with connecting; and
 - (b) The establishment, access, proper connecting techniques and work

practices required by sections
1926.756(c) and 12-110-50(p).]
nature of hazards associated with
connecting as well as the
establishment, access, proper
connecting techniques, and work
practices required by 29 C.F.R.
§1926.756(c) and 12-110-50(p).
Controlled Decking Zone

- (iii) Controlled Decking Zone
 Procedures. Where CDZs are being used, the employer shall assure that each employee has been provided training in the [following areas:
 - (a) The nature of the hazards associated with work within a controlled decking zone; and
 - (b) The establishment, access, proper installation techniques, and work practices required by sections 1926.760 and 1926.754(e).]
 nature of the hazards of working within a controlled decking zone as well as the establishment, access, proper installation techniques, and work practices required by 29 C.F.R. \$1926.754(c) and \$1926.760.
- (G) Certification of training.
 - [+] (i) The employer shall certify that each affected employee has been trained or evaluated and determined to be trained as required by this section.
 - [2] (ii) The written certification record shall contain the name or other unique identity of the employee trained, the date(s) of the training or the evaluation of prior training, and the signature of the person who conducted the

- training or the signature of the employer.
- [3] (iii) The latest training certification shall be maintained and made readily available to employees, employee representatives and the director. ["]
- (24) [29 CFR 1926,] 29 C.F.R. §1926, Subpart R Appendix A, subsection (a) is amended to read as follows:
 - General. This appendix serves as a quideline to assist employers who elect to develop a [site-specific] site specific erection plan in accordance with [section 1926.752(e) 29 C.F.R. §1926.752(c) with alternate means and methods to provide employee protection in accordance with [CFR sections 1926.752(e), 1926.753(c)(5), 1926.754 (b) (1) & (2), 1926.756 (a) (1), 1926.756(b), [12-110-50(b)(16),] 1926.757(a)(2), 1926.757(a)(4), [and] 1926.757(e)(4)] 29 C.F.R. §1926.752(e), \$1926.753(c)(5), \$1926.754(b)(1)&(2), \$1926.756(a)(1), \$1926.756(b), \$1926.757(a)(2), \$1926.757(a)(4), \$1926.757(e)(4) and 12-110-50(b)(16).
- (25) [29 CFR 1926.1427(a)(4)] 29 C.F.R. $\underline{\$1926.1427(a)(4)}$ is amended to read as follows:
- [(A)] Whenever operator qualification or certification is required under 29 C.F.R. \$1926.1427, the employer must provide the qualification or certification at no cost to operators who are employed by the employer on November 8, 2011.
- (26) [29 CFR 1926.1427] 29 C.F.R. §1926.1427 is
 amended by the deletion of paragraphs (b),
 (c), and (d). Operators in Hawaii are
 required to be certified under the

requirements of <u>chapter</u> 12-48, Hawaii Administrative Rules.

(27) [29 CFR 1926.1427(f)] 29 C.F.R.

§1926.1427(f) is amended to read as follows with [29 CFR 1926.1427(f)(4)(i), (ii), and (iii)] 29 C.F.R. §1926.1427(f)(4)(i), (ii), and (iii) deleted:

[-(A)-] Continuous monitoring. The operatorin-training must be monitored by the operator's trainer at all times.

(28) $[29 \text{ CFR } 1926.1427(k)(1)] \underline{29 \text{ C.F.R.}}$ $\underline{\$1926.1427(k)(1)}$ is amended to read as follows:

[(A)] The provisions of this section are applicable November 8, 2011. [operators]
Operators who were not required to be certified under [Chapter 45] <u>chapter 48</u>,
Hawaii Administrative Rules, as of May 18,
2011 must comply with [paragraph] <u>subsection</u>
(f) beginning November 9, 2012.

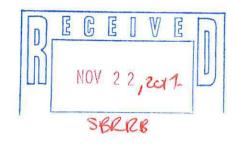
- (30) [29 CFR 1926.1430 (c)(2)] <u>29 C.F.R.</u> <u>\$1926.1430 (c)(2)</u> is amended to read as follows:

Historical Note: Section \$12-110-50 is based
substantially upon Part 3. [Eff 2/26/93, am 11/5/93,

am 7/25/94, am 8/10/95, am 1/26/96, am 9/21/96, am 11/16/96, am 2/8/97, am 10/23/97, am 7/6/98, am 3/29/99, am 12/29/00, am 1/10/03, am 5/21/04, am 5/5/05, am 9/1/05, am 3/31/06, am 12/21/06, am 4/19/07, am 8/26/07, am 5/2/08, am 7/27/09; R 2/13/12]

6. Chapter 12-170, Hawaii Administrative Rules, entitled "Shipyards", is amended and compiled to read as follows:

"HAWAII ADMINSTRATIVE RULES



TITLE 12

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISION

PART 5

OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR SHIPYARD EMPLOYMENT

CHAPTER 170

SHIPYARDS

\$12-170-1 Incorporation by reference [of federal standard]

\$12-170-1 Incorporation of federal standard. Title 29, Part 1915 of the Code of Federal Regulations, [2012] 2017 Edition published as of July 1, [2012,] 2017, by the U.S. Government Printing Office, U.S. Superintendent of Documents, Washington, DC 20402-0001, is made a part of this chapter." [Eff 3/23/01; am 1/10/03; am 9/01/05; am 3/31/06; am 12/21/06; am 4/19/07; am 8/26/07; am 5/02/08; am 7/27/09; am 2/13/12; am 11/2/12; am and Comp

[(Auth: HRS \$396-4) (Imp: HRS \$396-4)

7. Chapter 12-180, Hawaii Administrative Rules, entitled "Marine Terminals", is amended and compiled to read as follows:

"HAWAII ADMINSTRATIVE RULES

TITLE 12



DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISION

PART 6

MARINE TERMINALS

CHAPTER 180

MARINE TERMINALS

\$12-180-1 Incorporation by reference [of federal standard]

\$12-180-1 Incorporation of federal standard. Title 29, Part 1917 of the Code of Federal

Regulations, [2012] $\underline{2017}$ Edition published as of July 1, [2012,] $\underline{2017}$, by the U.S. Government Printing Office, U.S. Superintendent of Documents, Washington, DC 20402-0001, is made a part of this chapter." [Eff 3/23/01; am 12/21/06; am 5/02/08; am 7/27/09; am 2/13/12; am 11/2/12; am and comp [Auth: HRS \$396-4) (Imp: HRS \$396-4)

8. Chapter 12-190, Hawaii Administrative Rules, entitled "Safety and Health Regulations for Longshoring", is amended and compiled to read as follows:

"HAWAII ADMINSTRATIVE RULES

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TITLE 12

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISION

PART 7

SAFETY AND HEALTH REGULATIONS FOR LONGSHORING

CHAPTER 190

LONGSHORING

\$12-190-1 Incorporation by reference [of federal standard]

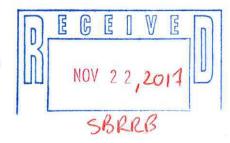
§12-190-1 Incorporation of federal standard. Title 29, Part 1917 of the Code of Federal Regulations, [2012] 2017 Edition published as of July

\$12-190-1

1, [2012,] 2017, by the U.S. Government Printing Office, U.S. Superintendent of Documents, Washington, DC 20402-0001, is made a part of this chapter." [Eff 3/23/01; am 12/21/06; am 5/02/08; am 7/27/09; am 2/13/12; am 11/2/12; am and comp] (Auth: HRS \$396-4) (Imp: HRS \$396-4)

9. Chapter 12-208, Hawaii Administrative Rules, entitled "Other Safety and Health Standards", is amended and compiled to read as follows:

"HAWAII ADMINSTRATIVE RULES



TITLE 12

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

SUBTITLE 8

HAWAII OCCUPATIONAL SAFETY AND HEALTH DIVISION

PART 8

OTHER SAFETY AND HEALTH STANDARDS

CHAPTER 208

OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR AGRICULTURE

\$12-208-1 Incorporation of federal standard

<u>Historical note:</u> Chapter 12-208 is based substantially upon section 12-67.2-1 [Eff 12/29/01; R 2/13/12], section 12-73.1-1 [Eff 12/29/01; am 4/29/02; am 12/21/06; am 4/19/07; R 2/13/12], and section 12-80.1-1 [Eff 12/29/01; R 2/13/12]

§12-208-1 Incorporation of federal standard.

Title 29, Part 1928 of the Code of Federal Regulations, [2011] 2017 Edition published as of July 1, [2011,] 2017, by the U.S. Government Printing Office, U.S. Superintendent of Documents, Washington, DC 20402-0001, is made a part of this chapter." [Eff 2/13/12; am and comp] (Auth: HRS \$396-4) (Imp: HRS \$396-4)

- 10. Material, except source notes, to be repealed is bracketed and stricken. New material is underscored.
- 11. Additions to update source notes to reflect these amendments are not underscored.
- 12. These amendments to and compilation of chapters 12-50, 12-52.1, 12-56, 12-60, 12-110, 12-170, 12-180, and 12-190, Hawaii Administrative Rules, shall take effect ten days after filing with the Office of the Lieutenant Governor.

I certify that the foregoing are copies of the rules, drafted in the Ramseyer format pursuant to the requirements of section 91-4.1, Hawaii Revised Statutes, which were adopted on , and filed with the Office of the Lieutenant Governor.

LINDA CHU TAKAYAMA Director of Labor and Industrial Relations

APPROVED AS TO FORM:

Deputy Attorney General

IV. Legislative Matters

A. Discussion and Action on Upcoming Governor's Message for Consideration and Confirmation to the Small Business Regulatory Review Board, Gubernatorial Nominee, Reg Baker, for a term to expire June 30, 2018 and June 30, 2022

No Attachments

IV. Legislative Matters

B. Discussion and Action on Upcoming House and Senate Bills, "Relating to the Small Business Regulatory Review Board" – Clarifies the Intent of the Small Business Regulatory Review Board's powers when Reviewing State and County Administrative Rules that Impact Small Business

No Handouts

V. Administrative Matters

A.Deliberation, Decision Making, and Action on the Board's Investigative Taskforce Findings and Recommendations regarding the Development and Redesign of the Board's existing Website including Content, Features, and Short- and Long-Term Goals in accordance with Section 92-2.5(b)(1)(C), HRS

1. Goals - What are you hoping to accomplish with a redesign?

- What are the primary action(s) you want visitors to take (fill out regulation review card, get updates, etc.)?
 - User-friendly Website
 - Communication Tool More Interaction with public and more outreach to public
 - Less "government" feel change the overall look
 - Educate / Inform:
 - a. Purpose
 - b. Current Events & Activities
 - c. Upcoming Rule Changes
 - d. Passed Rule Changes
 - Facilitate a convenient user-friendly interaction between small business
 & State and County Agencies
 - Pictures/Photos to make it more aesthetically pleasing
- What are your short term goals for this site? How would you complete this sentence? "The site will be successful 6 months after launch if..."

Substantially more small businesses would be familiar with the SBRRB's mission and be aware where the Website as to where they can submit concerns and testimony about a rule.

• What are your long term goals for this site? How would you complete this sentence? "The site will be successful 2 years after launch if..."

For the SBBRB to become a household term where a substantial number of Hawaii small businesses know if there is a concern with a regulatory issue they can come to this Board.

2. Content / Features - What's missing from your site that you don't have now?

• Tip: If you aren't sure, just think about what problems you are trying to solve or relate it back to what the goals are. Ex: Is your biggest issue that you get 40+ calls a day asking where to find meeting minutes and you think this could be solved by making that section more clear?

Creation of a "sign-up" link for:

- Monthly Agendas Automatic
- Link to Rules Agency Specific Request for Rules from Specific Agencies / Counties
- Link for submission of testimony

 You always have interesting speakers at your meetings that touch on high profile and current events. Can you highlight/editorialize on any hot button issues?
 (Marijuana, Styrofoam/bag ban, agriculture, rail, etc.)

Case by case basis. Depends on the rules brought forth in front of the Board.

 For the calendar – what features are missing from your current solution? Do you need users to be able to filter or search by island? Or is the current solution working fine for your needs?

Add to the Calendar – Public Hearing Notices Dates for Rule Changes Small Business Activities / DBEDT Activities

Distinguish between State and County rules being heard – link county websites (potential legal question).

• <u>Do you have any content created but not yet on the site? (Annual reports, forms, etc.)</u>

All reports, agendas, minutes, currents forms are on currently on the site. But, need to reduce "older" agendas and minutes and place in separate an "archive page."

Do you need a way for folks to apply to serve on the board?

Yes. Recruiting element for new members. Add link to Boards & Commissions Website.

Do you need to start an email list so you can communicate with your user base?
 Or do you already have one?

Manage email lists - There is an existing email list for Agendas and Newsletters.

Add – Specific Agency Rule Changes / Public Hearing / Current Events

An "email sign-up" can collect additional information including what government departments are most interested in so the SBRRB can target email distribution lists by subject area, e.g., those just wanting notification of DLNR rule changes, etc.

Do you need to get more speakers to attend your meetings?

It is expected that more speakers/testifiers will attend meetings once the website is up and running due to an increase in exposure through an increase is outreach - articles, social media, trade show and organization meetings, etc.

• Do you want to highlight activities and successes of the board via regular news/blog style posts?

Yes. On a case-by-case basis.

No Blog. Regular post for monthly eNewsletter

• <u>Is there any other content put out by DBEDT / SBA / etc. of helpful videos or with</u> interesting content that you could use?

Links to DBEDT

Links to Specific Organizations / SBA / Chambers of Commerce / Others

• Do you want to do a spotlight on key bills being watched in the legislature?

Yes. Include spotlighting new Bills / Legislation that will impact Small Business.

Do you have any testimonials or success stories?

There is currently one testimonial on the website from several years ago. The SBRRB typically does not ask for testimonials from small businesses or from Agencies.

3. Create a sitemap

• Below is a sample to get you started for how the site might be structured and what pages will live on it? What other pages need to be captured here?

a. About the Board

Mission, History & Governance About the SBRRB Board Meetings Board Meeting Minutes – **Past two (2) years** Meet the Board Members – **With Photos / Short Bio**

- b. Regulation Review Card Recommend Name Change Yes. And, recommend making this a form to submit testimony on a specific rule change and to submit more general comments on other regulations.
- c. News
- d. <u>How Rules are Made Flow Chart Pictures How process works What You Can Do as a Small Business Links to Submission of Testimonies How Rules are Made Link to Legislative Page</u>
- e. Contact Us

Add links to: Specific Organizations / SBA / Chambers of Commerce / Others?

f. <u>Legislature</u> – Spotlight new bills – legislation that will impact small business

- §92-2.5 Permitted interactions of members. (a) Two members of a board may discuss between themselves matters relating to official board business to enable them to perform their duties faithfully, as long as no commitment to vote is made or sought and the two members do not constitute a quorum of their board.
- (b) Two or more members of a board, but less than the number of members which would constitute a quorum for the board, may be assigned to:
 - (1) Investigate a matter relating to the official business of their board; provided that:
 - (A) The scope of the investigation and the scope of each member's authority are defined at a meeting of the board;
 - (B) All resulting findings and recommendations are presented to the board at a meeting of the board; and
 - (C) Deliberation and decisionmaking on the matter investigated, if any, occurs only at a duly noticed meeting of the board held subsequent to the meeting at which the findings and recommendations of the investigation were presented to the board; or
- (2) Present, discuss, or negotiate any position which the board has adopted at a meeting of the board; provided that the assignment is made and the scope of each member's authority is defined at a meeting of the board prior to the presentation, discussion, or negotiation.
- (c) Discussions between two or more members of a board, but less than the number of members which would constitute a quorum for the board, concerning the selection of the board's officers may be conducted in private without limitation or subsequent reporting.
- (d) Board members present at a meeting that must be canceled for lack of quorum or terminated pursuant to section 92-3.5(c) may nonetheless receive testimony and presentations on items on the agenda and question the testifiers or presenters; provided that:
- (1) Deliberation or decisionmaking on any item, for which testimony or presentations are received, occurs only at a duly noticed meeting of the board held subsequent to the meeting at which the testimony and presentations were received;
- (2) The members present shall create a record of the oral testimony or presentations in the same manner as would be required by section 92-9 for testimony or presentations heard during a meeting of the board; and
 - (3) Before its deliberation or decisionmaking at a subsequent meeting, the board shall:
 - (A) Provide copies of the testimony and presentations received at the canceled meeting to all members of the board; and

- (B) Receive a report by the members who were present at the canceled or terminated meeting about the testimony and presentations received.
- (e) Two or more members of a board, but less than the number of members which would constitute a quorum for the board, may attend an informational meeting or presentation on matters relating to official board business, including a meeting of another entity, legislative hearing, convention, seminar, or community meeting; provided that the meeting or presentation is not specifically and exclusively organized for or directed toward members of the board. The board members in attendance may participate in discussions, including discussions among themselves; provided that the discussions occur during and as part of the informational meeting or presentation; and provided further that no commitment relating to a vote on the matter is made or sought.

At the next duly noticed meeting of the board, the board members shall report their attendance and the matters presented and discussed that related to official board business at the informational meeting or presentation.

- (f) Discussions between the governor and one or more members of a board may be conducted in private without limitation or subsequent reporting; provided that the discussion does not relate to a matter over which a board is exercising its adjudicatory function.
- (g) Discussions between two or more members of a board and the head of a department to which the board is administratively assigned may be conducted in private without limitation; provided that the discussion is limited to matters specified in section 26-35.
- (h) Communications, interactions, discussions, investigations, and presentations described in this section are not meetings for purposes of this part. [L 1996, c 267, §2; am L 2005, c 84, §1; am L 2012, c 177, §1]

Law Journals and Reviews

Hawai`i's Sunshine Law Compliance Criteria. 26 UH L. Rev. 21.

Case Notes

Even assuming that written memoranda circulated by council members, in which the council members presented proposed actions, included justifications for the proposals, and sought "favorable consideration" of the proposals constituted a permitted interaction under subsection (a), the memoranda violated the mandate under subsection (b) that no permitted interaction be used to circumvent the spirit or requirements of the sunshine law to make a decision or to deliberate toward a decision upon board business. The "express premise" of the sunshine law is that opening up the government process to public scrutiny is the only viable and reasonable way to protect the public. 130 H. 228, 307 P.3d 1174 (2013).

Written memoranda circulated by council members, in which the council members presented proposed actions, included justifications for the proposals, and sought "favorable consideration" of the proposals did not fall within the permitted interaction described in subsection (a) because the memoranda: (1) were distributed among all of the members of the Maui county council rather than among only two members of the board; and (2) sought a commitment to vote by asking for "favorable consideration" of the proposals contained within them and thus, violated the sunshine law. 130 H. 228, 307 P.3d 1174 (2013).

Although subsection (a) does not expressly preclude city counsel members from engaging in serial one-on-one conversations, when council members engaged in a series of one-on-one conversations relating to a particular item of council business, under \$92-5(b), the spirit of the open meeting requirement was circumvented and the strong policy of having public bodies deliberate and decide its business in view of the public was thwarted and frustrated. 117 H. 1 (App.), 175 P.3d 111.

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V. Administrative Matters

B. Update on the Board's Upcoming Advocacy Activities and Programs in accordance with the Board's Powers under Section 201M-5, HRS

No Handouts