

Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

TABLE OF CONTENTS

Proposal Number: 2019-296-96

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information			
Name/Company Name		Date	
Mike Wilson		8 February 2019	
Email Address	Phone Number	Fax Number	
[REDACTED]	[REDACTED]		
Street Address	City	State	Zip Code
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

PART C3 - CONSTRUCTION, OPERATION, MAINTENANCE AND INSPECTION OF PRIVATE RESIDENCE
 INCLINED CONVEYANCES FOR TRANSPORTING ONLY PROPERTY
 NOTE: New installations shall comply with ASME A17.1/CSA B44, 5.4.
 PART C4 - PERSONNEL HOISTS
 NOTE: All newly installed personnel hoists shall comply with ASSE/ANSI A10.4.
 PART C5 - ADDITIONAL TYPES OF CONVEYANCES
 Material Hoists
 NOTE: New installations to comply with ANSI A10.5.
 Belt Manlifts
 NOTE: New installations of belt manlifts shall comply with current adopted version of ASME A90.1.
~~Special Purpose Personnel Elevators~~ Electric Manlifts
 NOTE: New installations shall comply with ASME A17.1/CSA B44, Section 5.7 Special Purpose Elevators.
~~Hand Elevators~~ Hand-Powered Manlifts
 NOTE: New installations shall comply with ASME A17.1/CSA B44, Section 4.3 Hand Elevators.
 Casket Lifts
 NOTE: These conveyances are intended to be used only in mortuaries where moving caskets is necessary.
 The installation of new lifts ~~for this purpose shall comply with ASME A17.1/CSA B44, Part 7.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

To ensure that any new Electric Manlift or Hand-Powered Manlift is to comply with the requirements in A17.1.-4.3 or 5.7

Casket lifts; there may be a conflict requiring these types of lifts to comply with ASME A17.1 as we have found casket lifts on the internet that say they comply with ASME B.20 VRC. It would be more logical to retain the WAC requirement for new and existing, maybe even to combine some of the WAC material lift with casket lifts.

Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96 Subpart VII

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Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

Subpart VII
Lifts for Physically Handicapped

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

This subpart contains no content, subpart IV already contains the required information



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-Subpart XII

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Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

Subpart XII
~~Special Purpose Elevators~~
 (Formerly Known as Electric Manlifts)

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Need to retain the title of Electric Manlifts, this is confusing other SPE's that are installed to A17.1-5.3 - Special Purpose Elevators



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96 Subpart XIII

How to Submit this Form:		
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Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscores to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

Subpart XIII
Hand-Elevators
(Previously Called Hand-Powered Manlifts)

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Need to retain the title of Hand-Powered Manlifts, this is confusing other Hand Elevators that are installed to A17.1-4.3 - Hand Elevators



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-0XXXX

How to Submit this Form:		
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Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscores to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-0XXXX
Private Residential Elevators.
(1) Main line disconnects, and car light disconnects shall be located adjacent to the controller when not located in a dedicated machine room. When located in a dedicated room, machine room requirements must be followed.
(2) Access to the motor brake:
(a) A lockable door that is a minimum of 6" X 6" or 36sq.in.
(b) A "STOP" switch shall be located within reach of the access door.
(c) A light switch and GFCI outlet shall be located within reach of the access door.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(1) - ASME A17.1-5.3 does not contain a requirement for a machine room and we are constantly being asked to provide machine room layouts.
- In most cases the controller is located in a large room or garage and may have multiple points of entry. This will add a greater level of safety to home owners, emergency personnel, and maintenance personnel as the disconnects will be adjacent to the elevator controller and not in locations up to 20ft away.
- NEC 620 section VIII; "Machine Rooms, Control Rooms, Machinery Spaces, and Control Spaces
(A) Motor Controllers shall be permitted outside the spaces herein specified, provided they are in enclosures with doors or removable panels that are capable of being locked in the closed position and the disconnecting means is located adjacent to or is an integral part of the motor controller." This is to clarify that when a machine room is not provided that the disconnects be centrally located, rather than having them located at the point of entry, which could be several, into a non-dedicated room.
(2) ASME A17.1 - 5.3 does not require an access door to the motor brake. This is a safety issue for emergency rescue by having a safe means to access the brake.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-00910

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Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscores to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

296-96-00910
Elevator mechanic license categories.
The following are the licensing categories for qualified elevator mechanics or temporary elevator mechanics:
(4) Category (04): This license is limited to the installation, alteration, maintenance, inspection, relocation, decommission, removal, and repair of the following conveyances:
(a) Temporary personnel hoists;
(b) Temporary material hoists; and
(c) ~~Special purpose elevators.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Need to remove the reference to Special Purpose Elevators as this license category only requires 80 hours total of education and work experience of 700 hours will be the equivalency of 1 year for a total of 2,100 hours (3 years)
License Category 3, which is the correct category, requires education of 90 hours per twelve-month period for three consecutive twelve-month periods for a total of 270 hours and work experience of 1,800 hours per twelve-month period for three consecutive twelve-month periods for a total of 5,400 hours
Summary, Special Purpose Elevators are a lot more complicating than a construction personnel hoist that is temporarily attached/installed.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-02552-1

How to Submit this Form:

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Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Kevin Brinkman		Date 2/27/19
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

WAC 296-96-02552 Option 1 Delete and refer to ASME A17.1/CSA B44

~~Location of equipment in hoistway:~~

~~(1) Where an elevator cannot be prevented from movement electrically and mechanically prior to entering the hoistway or pit area, the following restrictions shall apply:~~

~~(a) Motor controllers, motion controller, drive, hydraulic control valves, hydraulic reservoir (tank), and hydraulic pump motor shall not be located in the hoistway or pit.~~

~~(b) Driving machines shall not be located in the pit.~~

~~(2) The ability to activate the means to secure the elevator electrically and mechanically shall be such that the activation can be performed without full bodily entry into the hoistway or pit.~~

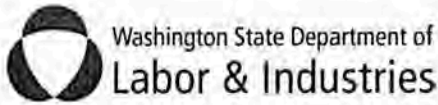
~~(3) Elevator controls and machinery other than driving machines, hydraulic cylinder, piston, governor, and their components shall be located in a room dedicated exclusively to elevator equipment.~~

~~(4) Drive sheaves, deflector sheaves, machine parts and supports are permitted to project into the hoistway.~~

~~[Statutory Authority: Chapter 70.87 RCW, WSR 18-18-070, § 296-96-02552, filed 8/31/18, effective 10/1/18; WSR 13-24-066, § 296-96-02552, filed 11/27/13, effective 1/1/14.]~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

NEII requests deletion of this section from the WAC and following the A17.1/B44 code which has had safe requirements since 2005 for all of the equipment listed in the proposed WAC rule to be located in the hoistway. Since the 2005 edition of A17.1/B44 code, thousands of MRL installations have been installed and safely maintained for many years. The current language in WAC 296-96-02552 goes well beyond the requirements in A17.1/B44 code and it is unclear the justification for the additional requirements. According to A17 Inquiry 06-26 (attached), if a mechanic is entering the car top to perform maintenance, a means to prevent movement of the car is only required where maintenance or inspection could cause unexpected car motion. If a task will not (cannot) cause unexpected motion, there is no need to provide a means to prevent movement. NEII requests that this revert to the ASME language.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-02552-2

How to Submit this Form:

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Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Kevin Brinkman	Date 2/27/19	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

WAC 296-96-02552 Option 2 Revise as follows:

Location of equipment in hoistway.

Elevator equipment shall be permitted to be located within the hoistway subject to the requirements in ASME A17.1/CSA B44 and the following:

(1) ~~Where an elevator cannot be prevented from movement electrically and mechanically prior to entering the hoistway or pit area, the following restrictions shall apply:~~

- (a) ~~Motor controllers, motion controller, drive, hydraulic control valves, hydraulic reservoir (tank), and hydraulic pump motor, and driving machines shall not be located in the hoistway or pit.~~
- (b) ~~Driving machines shall not be located in the pit.~~

(2) ~~The ability to activate the~~ Where a means is used to secure the elevator electrically and mechanically prior to entering the pit, the means shall be designed such that the activation can be performed without full bodily entry into the hoistway or pit.

(3) ~~Elevator controls and machinery other than driving machines, hydraulic cylinder, piston, governor, and their components shall be located in a room or space dedicated exclusively to elevator equipment.~~

(4) ~~Drive sheaves, deflector sheaves, machine parts and supports are permitted to project into the hoistway.~~

[Statutory Authority: Chapter 70.87 RCW. WSR 18-18-070, § 296-96-02552, filed 8/31/18, effective 10/1/18; WSR 13-24-066, § 296-96-02552, filed 11/27/13, effective 1/1/14.]

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

NEII would prefer deletion of this section from the WAC and following the A17.1/B44 code which has had safe requirements since 2005 for all of the equipment listed in the proposed WAC rule to be located in the hoistway. Since the 2005 edition of A17.1/B44 code, thousands of MRL installations have been installed and safely maintained for many years. The current language in WAC 296-96-02552 goes well beyond the requirements in A17.1/B44 code and it is unclear the justification for the additional requirements. According to A17 Inquiry 06-26 (attached), if a mechanic is entering the car top to perform maintenance, a means to prevent movement of the car is only required where maintenance or inspection could cause unexpected car motion. If a task will not (cannot) cause unexpected motion, there is no need to provide a means to prevent movement. NEII requests that this revert to the ASME language.

Mechanics enter the pit and hoistway every day for a variety of tasks, independent of where the controller or hydraulic equipment is located. If a mechanic is going to enter the pit, using proper safety procedures for pit entry (i.e. hoistway access operation or unlocking device) the location of the controller would not matter. The same procedure would be used for MRL and non-MRL equipment, and safe access could be achieved with either type of equipment. With non-MRL equipment, movement could not be prevented prior to entering the pit, unless the mechanic went to the machine room on the top floor or roof to turn off the disconnecting means. The mechanic would not typically tag & lock-out the disconnect means unless there was a major repair or the specific task to be performed required mechanical movement mitigation. Preventing mechanical movement prior to entering a pit is unjustified, for example it is common industry practice when repairing a hydraulic jack that the mechanic would tag & lock-out the disconnecting means then enter the pit to install pipe stands to mitigate the mechanical movement regardless of an MRL or Non-MRL system. It is unclear why there is a need for additional requirements to prevent movement with an MRL system.

Typically, for both MRL and non-MRL, the mechanic would open the door and then access the pit stop switch; therefore, the location of controller is irrelevant. If electrical power is removed prior to entering the hoistway, what is the justification for also requiring mechanical prevention of movement if the task to be performed could not cause unexpected car motion. Based on the thousands of installed MRL systems the need to mitigate mechanical car movement every time a mechanic enters the hoistway is unnecessary. What is the rationale for requiring it for MRL but not for entry to the hoistway to do the same task as on a non-MRL?

Our understanding is that the pit entry requirement is due to a WA DOSH rule, and if it is believed additional mitigation is required, we request updates to this section to address pits but allow ASME rules for the rest of the hoistway.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-02552-3

How to Submit this Form:

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Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Kevin Brinkman		Date 2/27/19	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

WAC 296-96-02552 Option 3 Revise as follows:

Location of equipment in hoistway.

Elevator equipment shall be permitted to be located within the hoistway subject to the requirements in ASME A17.1/CSA B44 and the following:

(1) ~~Where an elevator cannot be prevented from movement electrically and mechanically prior to entering the hoistway or pit area, the following restrictions shall apply:~~

- (a) ~~Motor controllers, motion controller, drive, hydraulic control valves, hydraulic reservoir (tank), and hydraulic pump motor, and driving machines shall not be located in the hoistway or pit.~~
- (b) ~~Driving machines shall not be located in the pit.~~

(2) ~~The ability to activate the~~ Where a means is used to secure the elevator electrically and mechanically prior to entering the pit, the means shall be designed such that the activation can be performed without full bodily entry into the hoistway or pit.

(3) ~~Elevator controls and machinery other than driving machines, hydraulic cylinder, piston, governor, and their components shall be located in a room or space dedicated exclusively to elevator equipment.~~

(4) ~~Drive sheaves, deflector sheaves, machine parts and supports are permitted to project into the hoistway.~~

[Statutory Authority: Chapter 70.87 RCW. WSR 18-18-070, § 296-96-02552, filed 8/31/18, effective 10/1/18; WSR 13-24-066, § 296-96-02552, filed 11/27/13, effective 1/1/14.]

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

NEII would prefer deletion of this section from the WAC or the changed recommended including the deletion of Items 3 & 4 and following the A17.1/B44 code which has had safe requirements since 2005 for all of the equipment listed in the proposed WAC rule to be located in the hoistway. However, if it is believed that Items 3 & 4 are needed even though they are already covered in other codes, then we would recommend this change.

Since the 2005 edition of A17.1/B44 code, thousands of MRL installations have been installed and safely maintained for many years. The current language in WAC 296-96-02552 goes well beyond the requirements in A17.1/B44 code and it is unclear the justification for the additional requirements. According to A17 Inquiry 06-26 (attached), if a mechanic is entering the car top to perform maintenance, a means to prevent movement of the car is only required where maintenance or inspection could cause unexpected car motion. If a task will not (cannot) cause unexpected motion, there is no need to provide a means to prevent movement. NEII requests that this revert to the ASME language.

Mechanics enter the pit and hoistway every day for a variety of tasks, independent of where the controller or hydraulic equipment is located. If a mechanic is going to enter the pit, using proper safety procedures for pit entry (i.e. hoistway access operation or unlocking device) the location of the controller would not matter. The same procedure would be used for MRL and non-MRL equipment, and safe access could be achieved with either type of equipment. With non-MRL equipment, movement could not be prevented prior to entering the pit, unless the mechanic went to the machine room on the top floor or roof to turn off the disconnecting means. The mechanic would not typically tag & lock-out the disconnect means unless there was a major repair or the specific task to be performed required mechanical movement mitigation. Preventing mechanical movement prior to entering a pit is unjustified, for example it is common industry practice when repairing a hydraulic jack that the mechanic would tag & lock-out the disconnecting means then enter the pit to install pipe stands to mitigate the mechanical movement regardless of an MRL or Non-MRL system. It is unclear why there is a need for additional requirements to prevent movement with an MRL system.

Typically, for both MRL and non-MRL, the mechanic would open the door and then access the pit stop switch; therefore, the location of controller is irrelevant. If electrical power is removed prior to entering the hoistway, what is the justification for also requiring mechanical prevention of movement if the task to be performed could not cause unexpected car motion. Based on the thousands of installed MRL systems the need to mitigate mechanical car movement every time a mechanic enters the hoistway is unnecessary. What is the rationale for requiring it for MRL but not for entry to the hoistway to do the same task as on a non-MRL?

Our understanding is that the pit entry requirement is due to a WA DOSH rule, and if it is believed additional mitigation is required, we request updates to this section to address pits but allow ASME rules for the rest of the hoistway.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-026XX

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Mail requests to:	Email requests to:	Fax requests to:
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Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-026XX
Commercial Vertical and Incline Platform lifts.

For the purpose of two-way communication, i.e. telephone, intercom, etc., lifts installed in areas that are not visible means, that the lift is located in an area that is not in the normal path of travel during the hours that the building is occupied. This will include lifts that are provided with full enclosures where the user cannot be seen.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

There is no definition of what "not visible" means and this will help in removing the abiguity



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-02605

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Submitter Information		
Name/Company Name Mike Wilson	Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscores to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-02605
Private residence inclined stairway chairlifts.
(1) Battery operated private residence inclined stairway chairlifts are not required to be permanently wired or installed on an individual branch circuit as required by NEC 620.51 (A) Exception 2. These conveyances shall be permitted to use a cord and plug that will act as the equipment disconnecting means. The circuit, which is used for the equipment, shall have overcurrent protection that will protect the circuit and the equipment. The circuit shall have sufficient capacity to support the additional load of the stairway chairlift. Units that are operated by line voltage shall comply with NEC 620.51 (A) Exception 2.
(2) A free passage width of not less than seventeen inches shall be provided. If the chair can be folded when not in use the distance can be measured from the folded chair. When in use there must be a minimum of two inches between any body part and the nearest obstruction.
(3) ASME A18.1-2017 10.4.1.1 Governor overspeed/platform safety testing shall be verified by manufacturer documentation and manually tripped at rated speed with no load.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

This has already been accepted for the commercial stair lift, it is being added to cover the residential as ASME A18.1-2017 Rule 7.8(new) requires that all chairs be provided with this device.



Elevator Rule Development Form Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-02640

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Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

296-96-02640
Incline commercial stairway chair lifts.
ASME A18.1-2017 10.4.1 Governor overspeed/platform safety testing shall be verified by manufacturer documentation and manually tripped at rated speed with no load.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Edit, as the governor is also the platform safety.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-Part C1

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Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Bob Oury / Pace Material Handling, Inc.		Date 2.22.19
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (*Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.*)

PART C1 - MINIMUM STANDARDS FOR NEW AND ALTERED STANDARD APPLICATION WAC MATERIAL LIFTS

2. Statement of Problem and Justification (*Please provide a brief explanation and justification statement for this proposal.*)

We recommend changing the terminology from "standard application" to "WAC material lift", to eliminate any possible confusion.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-05000

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Submitter Information		
Name/Company Name Bob Oury / Pace Material Handling, Inc.		Date 2.22.19
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

WAC 296-96-05000

Scope.

The requirements in this part are intended to cover those stand-alone standard application vertical lifts. Where Type A or Type B material lifts are installed, they shall comply with ASME A17.1/CSA B44, Part 7.
[Statutory Authority: Chapter ~~70.87~~ RCW, WSR 18-18-070, § 296-96-05000, filed 8/31/18, effective 10/1/18.]

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

WAC 296-96-05000 Scope as currently written, serves only to confuse owners, architects, and inspectors. Having a conveyance Code where some designs are governed by WAC and others are governed by ASME A17.1 will never be easy for anyone in any of the mentioned groups to keep track of or understand. In addition, the Type-A and Type-B lifts are very limited in application and to our knowledge have never been requested in Washington State. The A17.1 material lifts are a remnant specification from the Canadian CSA B44 when it was merged with ASME A17.1. Type-A is currently not used anywhere and Type-B allows riders in a very limited scope. If Type-B was ever requested (has not been to date), could be handled through a variance process or as a freight elevator or in another way to create a positive outcome. Our recommendation is that the entire 05000 be eliminated, which will eliminate type-A and type-B lifts and eliminate any confusion.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-05000-a

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information		
Name/Company Name Bob Oury / Pace Material Handling, Inc.		Date 2.22.19
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (*Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.*)

WAC 296-96-05000

Scope.

The requirements in this part are intended to cover those stand-alone standard application WAC material vertical lifts. Where Type-A or Type-B material lifts are installed, they shall comply with ASME A17.1/CSA B44, Part 7.
[Statutory Authority: Chapter 70.87 RCW. WSR 18-18-070, § 296-96-05000, filed 8/31/18, effective 10/1/18.]

2. Statement of Problem and Justification (*Please provide a brief explanation and justification statement for this proposal.*)

WAC 296-96-05000 Scope as currently written, serves only to confuse owners, architects, and inspectors. Having a conveyance Code where some designs are governed by WAC and others are governed by ASME A17.1 will never be easy for anyone in any of the mentioned groups to keep track of or understand. In addition, calling material lifts governed by WAC "standard application" will add to the confusion. At minimum, the term "standard application" should be changed to "WAC material lift".

Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-05010

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	ElevatorSect@Lni.wa.gov	360-902-6132

Submitter Information

Name/Company Name Bob Oury / Pace Material Handling, Inc.		Date 2.22.19
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

WAC 296-96-05010

Definition and use.

(1) These rules define a "standard-application-material-lift" "WAC" material lift as a fixed stationary conveyance that:

- Has a car or platform moving in guides;
- Serves two or more floors of a building or structure;
- Has a vertical rise of at least 5 ft. and no more than 60 ft.;
- Has a maximum speed of 50 ft./min.;
- Is not part of a conveying system but is an isolated self-contained lift;
- Travels only in an inclined or vertical direction;
- Is operated or supervised by an individual designated by the employer;
- Is installed in a commercial or industrial area not accessible to the general public; and
- May not be operated from within the car.

(2) ~~Standard-application~~ WAC material lifts shall not carry people so their operation or failure will not endanger people working near them. WAC 296-96-05010 through 296-96-05290 establishes requirements for the construction, installation, and operation of standard WAC material lifts. These rules allow certain conveyances designed solely to transport material and equipment to be constructed to less stringent and costly standards than ASME A17.1.

These rules do not apply to conveyances that lack a car (platform) and use rollers, belts, tracks, power conveyors, or similar carrying (loading) surfaces. (See ASME/ANSI B20.1.)

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Up until the most recent revision, WAC 296-96-05010 Definition and use included verbiage that explained why material lift codes have been developed to the standard that they have. But, in the latest revision it was dropped.

It is important that the WAC always include the explanation of why Material Lift Codes have be written and to what standard. It continues the history forward, defining a baseline for everyone that reads it and possibly feels a need to change something in it. There will always be people inside and outside of the conveyance industry that won't know or understand and without this definition, could possibly make changes to the Code with unintended consequences.

The other strike revision is to change "standard application" to "WAC"



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-05070

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Bob Oury / Pace Material Handling, Inc.		Date 2.22.19
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

WAC 296-96-05070

Car enclosures.

(1) Lift cars shall have their sides enclosed with solid panels or openwork that will reject a two-inch diameter ball. On the car sides where there is no gate (door), the enclosure shall extend to a height of at least forty-eight inches from the floor or to a height necessary to enclose the materials that are being moved, whichever is greater. On the car side next to the counterweight runway, the enclosure shall extend vertically to the car top or underside of the car crosshead and horizontally to at least six inches on each side of the runway.

(2) ~~Standard application~~ WAC material lifts in unenclosed hoistways shall have a car gate that is constructed of the same material as the car enclosure.

(3) The gate, if required or supplied, shall be the same height as the sidewalls of the car enclosure and shall be provided with a latching device and electrical contact to prevent the operation of the motor and brake if open more than two inches.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

We recommend changing the terminology from "standard application" to "WAC material lift", to eliminate any possible confusion.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-05140

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Bob Oury / Pace Material Handling, Inc.		Date 2.22.19
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

WAC 296-96-05140

Car safeties.

Car safeties shall be used on all material lifts that are suspended by wire ropes or chains. They shall be able to stop and sustain a car carrying ~~425~~ 100 percent of its rated load. This shall be demonstrated during the acceptance inspection and test procedure with an overspeed or gravity drop test, minimum two safeties at a time. On lifts driven by rack and pinion machines:

- (1) Car safeties shall be able to stop and sustain a car carrying ~~425~~ 100 percent of its rated load.
- (2) Car safeties will consist of a freely rotating safety pinion, an overspeed governor and a safety device which may be mounted on the car.
- (3) The rotating pinion driving an overspeed governor will travel on a stationary rack which is vertically mounted in the hoistway.
- (4) The governor will actuate the safety device when the downward speed of the car reaches the tripping speed and will bring the car to a gradual stop.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

To require testing car safeties at 125% is destructive. They should be tested at 100%.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-07xxx1

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	ElevatorSect@Lni.wa.gov	360-902-6132

Submitter Information		
Name/Company Name ACCUMAR CORPORATION		Date 12/5/2017
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

WAC 296-96-07080 What are the load and size requirements for car platforms? The minimum rated load shall not be less than the following:

- (1) For net platform areas up to and including twelve square feet, the rated load shall be not less than forty pounds per square foot or three hundred and fifty pounds whichever is greater.
- (2) For net platform areas greater than twelve square feet, the rated load shall be based upon sixty-two and one-half pounds per square foot.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

The new ASME A17.1-2016 5.4.6.1 allows only 15 square feet of platform area in the car. This is not enough room for many wheelchairs or cargo common on residential inclined elevators servicing homes. In the past this led to the department having to write variances for grater platform areas. This issue was resolved by the adoption of the WAC rule quoted above not limiting platform area to only 15 square feet, with corrsponding rated load requirements.

We would like the WAC 296-96-07080 retained as is to solve this problem.



Elevator Rule Development Form Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-07xxx2

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information			
Name/Company Name ACCUMAR CORPORATION		Date 12/5/2017	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscores to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

WAC 296-96-07210 (3) The minimum diameter of hoist ropes or cables must be 1/4" inch galvanized elevator wire rope and 3/16 inch aircraft cable.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

For residential inclined elevators (RIE), replacing WAC 296-96 with ASME-A17.1-2016 would specifically increase minimum wire rope sizes from 3/16" to 3/8" diameter. This is an engineering decision, based on required safety factors, and drum capacities, on winding drum machines. Rope quantity and size will vary per individual RIE engineering. The WAC 296-96 and ASME A17.1 2010 agreed with the WAC rule quoted above.

We would like the WAC 296-96-07210 (3) retained as is.



Elevator Rule Development Form Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-23605

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-23605

Examination of standard application material lifts, special purpose lifts, electric manlifts, and hand elevators.

(1) Examination standard application material lifts, special purpose lifts, electric manlifts and hand elevators shall conform to the following:

(a) Annual examination requirements for electrical elevators. Service providers' shall furnish documentation to include the following components or systems that shall be examined if installed.

(b) Inside car:

(i) ~~Door-reopening device;~~

(ii) Stop switches;

(iii) Operating control devices[±];

(iv) Car lighting and auxiliary lighting**;

(v) Car emergency signal;

(vi) Car door or gate;

(vii) ~~Door-closing force;~~

(viii) Ventilation[±];

(ix) Restricted opening of car or hoistway doors;

(x) Car ride[±]; and

(xi) Stopping accuracy[±].

(xii) Car enclosure;

(xiii) Emergency Exits;

(xiv) Signs and operating device symbols;

(xv) Equipment exposure to weather**;

(c) Machine room/control room:

(i) Guarding of equipment;

(ii) Stop switch;

(iii) Disconnecting means and control;

(iv) Controller wiring, fuses, grounding, etc.;

- (v) Machinery supports and fastenings;
- (vi) Drive machine brake;
- (vii) Traction drive machines;
- (viii) Gears, bearings, and flexible connections;
- (ix) Winding drum machine;
- (x) Absorption of regenerated power;
- (xi) Traction sheaves;
- (xii) Secondary and deflector sheaves;
- (xiii) Rope fastenings;
- (xiv) Operating devices;
- (xv) Code data plate**;
- (xvi) ~~AC drives from a DC source;~~
- (xvii) Slack rope devices;
- (xviii) Wiring diagrams; and
- (xix) Rope retainers or restraints.
- (xx) Equipment exposure to weather**;
- (xxi) Fire extinguisher**;
- (d) Top-of-car:
 - (i) Top-of-car stop switch;
 - (ii) Car top light and outlet;
 - (iii) Top-of-car operating device and/or working platforms;
 - (iv) Car, overhead, and deflector sheaves;
 - (v) Crosshead data plate**;
 - (vi) Traveling cables and junction boxes;
 - (vii) Door and gate equipment;
 - (viii) Car frame and stiles;
 - (ix) Guide rails fastening and equipment;
 - (x) Governor rope;
 - (xi) Governor releasing carrier;
 - (xii) Fastening and hitch plate;
 - (xiii) Suspension means;
 - (xiv) Compensation means;
 - (xv) Working areas on the car top;
 - (A) Means to prevent unexpected movement.
 - (B) Unexpected car movement device.
 - (C) Operating instructions for unexpected car movement device.
 - (D) Operating instructions for egress and reentry procedure;
 - (xvi) Machinery supports and fastenings;
 - (xvii) Guarding of exposed auxiliary equipment;
 - (xviii) Rope retainers and snag guards;
 - (xix) Position restraints.
 - (xx) Top emergency exit;
 - (xxi) Hoistway construction**;
 - (xxii) Equipment exposure to weather**;
- (e) Outside hoistway:
 - (i) Car platform guard;
 - (ii) Hoistway doors;
 - (iii) ~~Vision panels*~~;
 - (iv) Hoistway door locking devices;
 - (v) Access to hoistway;
 - (vi) Emergency and access hoistway openings;
 - (vii) Separate counterweight hoistway;
 - (viii) Elevator parking devices;
 - (ix) Equipment exposure to weather**;
- (f) Pit:
 - (i) Pit access, lighting, stop switch and condition;

- (ii) Bottom clearance and runby;
- (iii) Traveling cables;
- (iv) Compensating chains, ropes, and sheaves;
- (v) Car frame and platform;
- ~~(vi) Working areas in the pit;~~
- ~~(A) Means to prevent unexpected movement.~~
- ~~(B) Unexpected car movement device.~~
- ~~(C) Operating instructions for unexpected car movement device.~~
- ~~(D) Operating instructions for egress and reentry procedure;~~
- (vii) Machinery supports and fastenings;
- (viii) Guarding of exposed auxiliary equipment; and
- ~~(ix) Pit inspection operation.~~
- (x) Equipment exposure to weather;
- (xi) Buffers

Note: (*) May be combined with other items on the log.

(**) A visual component that must be reported to the owner.

(2) Annual examination requirements for hydraulic elevators. Service providers shall furnish documentation to include the following components or systems that shall be examined if installed.

(a) Inside the car:

- ~~(i) Door reopening device;~~
- (ii) Stop switches;
- (iii) Operating control devices*;
- (iv) Car lighting and auxiliary lighting;
- (v) Car emergency signal;
- (vi) Car door or gate;
- ~~(vii) Door closing force;~~
- (viii) Emergency exit;
- (ix) Ventilation*;
- (x) Signs and operating device symbols;
- (xi) Restricted opening of car or hoistway doors;
- (xii) Car ride*;
- (xiii) Stopping accuracy*.
- (xiv) Car enclosure;
- (xv) Equipment exposure to weather**;

(b) Machine room/control room:

- (i) Stop switch;
- (ii) Disconnecting means and control;
- (iii) Controller wiring, fuses, grounding, etc.;
- (iv) Hydraulic power unit;
- (v) Tanks**; and
- (vi) Wiring diagrams.
- (xv) Code data plate**;
- (xx) Equipment exposure to weather**;
- (xxi) Fire extinguisher**;

(c) Top-of-car:

- (i) Top-of-car stop switch;
- (ii) Car top light and outlet;
- (iii) Top-of-car operating device and working platforms;
- (iv) Top emergency exit;
- (v) Traveling cables and junction boxes;
- (vi) Door and gate equipment;
- (vii) Car frame and stiles;
- (viii) Guide rails fastening and equipment;
- (ix) Governor rope;
- (x) Wire rope fastening and hitch plate;
- (xi) Suspension rope;

- (xii) Slack rope device;
- (xiii) Traveling sheave;
- (xiv) Crosshead data plate**; and
- (xv) Guarding of equipment.

(xxii) Equipment exposure to weather**;

(d) Outside hoistway:

- (i) Car platform guard;
- (ii) Hoistway doors;
- (iii) ~~Vision panels*~~;
- (iv) Hoistway door locking devices;
- (v) Access to hoistway; and
- (vi) ~~Emergency doors in blind hoistways;~~

(xxii) Equipment exposure to weather**;

(e) Pit:

- (i) Pit access, lighting, stop switch, and condition;
- (ii) Bottom clearance and runby;
- (iii) Plunger and cylinder;
- (iv) Traveling cables;
- (v) Car frame and platform;
- (vi) Supply piping;
- (vii) Governor rope tension device;
- (viii) Machinery supports and fastenings;
- (ix) Guarding of exposed auxiliary equipment.

(xxii) Equipment exposure to weather**;

Note: (*) May be combined with other items on the log.

(**) A visual component that must be report to the owner.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Some additions/removals to clean up items that are applicable to these types of lifts.

Remove the single asterik (*) as there is no need to combine items, less confusion for all parties involved.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-23605

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	ElevatorSect@Lni.wa.gov	360-902-6132

Submitter Information			
Name/Company Name		Date	
Mike Wilson		8 February 2019	
Email Address	Phone Number	Fax Number	
[REDACTED]	[REDACTED]	[REDACTED]	
Street Address	City	State	Zip Code
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

296-96-23605 Examination of standard application material lifts, special purpose elevators lifts, electric manlifts, and hand-powered manlifts elevators.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Edit to title in table of contents to clarify that;

- 1- Special purpose lifts are more appropriately referred to as Special Purpose Elevators
- 2- "Hand elevators" are more appropriately referred to as Hand-powered manlifts



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-**237XX**

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]		Phone Number [REDACTED]	Fax Number
Street Address [REDACTED]		City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

296-96-237XX
ASME A18.1 - 11.3 Additional required onsite documentation

1. Wiring diagrams.
2. A log identifying applicable tests.
3. Manufacturer's operational instructions that include the operation of the manual lowering device.
4. Maintenance logs shall include the following tasks:
 - (a) Stairlifts**
 - (i) Platform (chair)
 - (a) Operating control devices;
 - (b) Seat, arm rests, and foot rest;
 - (c) Rated load and data plate;
 - (d) Ride
 - (ii) Machine:
 - (a) Enclosure;
 - (b) Drive machine brake;
 - (c) Suspension means;
 - (d) Disconnecting means;
 - (e) Numbering of equipment;
 - (f) Gears and bearings;
 - (g) Winding drum;
 - (h) Suspension fastenings;
 - (i) Slack-rope devices;
 - (k) Overspeed governor;
 - (iii) Runway
 - (a) Normal terminal stopping devices;
 - (b) Final terminal stopping devices;
 - (c) Head room;

- (d) Guiding members;
- (e) Construction;
- (f) Clearances;
- (g) Traveling cables and junction boxes;
- (h) Guide rail fastenings and equipment;
- (i) Equipment exposure to weather;
- (b) Inclined platform lifts**
- (i) Platform
- (a) Stop switch;
- (b) Operating control devices;
- (c) Floor;
- (d) lighting;
- (e) Emergency signal;
- (f) Signs and operating device symbols;
- (g) Rated load and data plates;
- (h) Ride;
- (i) Arms and retractable ramps;
- (ii) Machine
- (a) Enclosure;
- (b) Guarding of exposed auxiliary equipment;
- (c) Drive machine brake
- (d) Gears and bearings;
- (e) Winding drum;
- (f) Belt or chain drive;
- (g) Secondary and deflector sheaves;
- (h) Suspension fastenings;
- (i) Slack-rope devices;
- (j) Safety device;
- (k) Overspeed governor;
- (l) Disconnecting means;
- (m) Numbering of equipment;
- (n) Controller;
- (iii) Runway
- (a) Normal terminal stopping devices;
- (b) Final terminal stopping devices;
- (c) Head room;
- (d) Slack rope devices;
- (e) Safeties and Guiding members;
- (f) Construction;
- (g) Clearances;
- (h) Guide rail fastenings and equipment;
- (i) Suspension means;
- (j) Equipment exposure to weather;
- (c) Vertical platform lifts**
- (i) Platform
- (a) Stop switch;
- (b) Operating control devices;
- (c) Lighting and auxiliary lighting;
- (d) Emergency signaling device;
- (e) Gates and retractable ramps;
- (f) Enclosure
- (g) Signs and operating device symbols;
- (h) Rated load and data plate;
- (i) Ride;
- (ii) Machine;
- (a) Enclosure;

- (b) Drive machine brake;
- (c) Gears and bearings;
- (d) Winding drum;
- (e) Belt or chain drive machine;
- (f) Secondary or deflector sheaves;
- (g) Suspension fastenings;
- (h) Slack rope device;
- (i) Overspeed governors;
- (j) Hydraulic power unit;
- (k) Control valves;
- (l) Hydraulic cylinders and supply piping;
- (iii) Runways
- (a) Normal terminal stopping device;
- (b) Final terminal stopping device;
- (c) Head room;
- (d) Slack rope device;
- (e) Safeties and guiding members;
- (f) Construction;
- (g) Clearances;
- (h) Traveling cables;
- (i) Door and gate equipment;
- (j) Suspension fastenings;
- (k) Suspension means;
- (l) Equipment exposure to weather;
- (iv) Outside runway
- (a) Doors and gates;
- (b) Door locking devices;
- (c) Enclosure;

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

1. This modifies and clarifies what A18.1-2017 requires to be onsite.
 - (a) Removes the requirement that the mechanics procedural manual be left onsite.
 - (b) Clarifies what the applicable items that are required to be on each maintenance and test log as applicable to the type of equipment.

Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number:

2019-296-96-2374

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-23701

~~Periodic examinations~~ Maintenance and tests on commercial accessibility lifts.

(1) A One- and five-year inspection and tests test tag in accordance with ASME A18.1, Section 10.3, shall be attached and visible. A full-load safety test shall be performed with weights on all commercial accessibility equipment.

(2) The owner shall ensure that the accessibility lifts are ~~regularly examined~~ and maintained in accordance with ASME A18.1, Section ~~10.2~~ 11 and with this subpart.

(3) Documentation of tests, examinations and maintenance shall be readily accessible on-site.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

1. Change title for clarity.

2. To align maintenance and tests with the requirements in ASME A18.1-2017 Section 11(new)



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-Part D Material Lifts

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Bob Oury / Pace Material Handling, Inc.		Date 2.22.19	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

PART D - REGULATIONS FOR EXISTING ELEVATORS, MATERIAL LIFTS, DUMBWAITERS,
AND ESCALATORS
Subpart V
Standard Application WAC Material Lifts

296-96-24XXX Minimum Standards for Existing WAC Material Lifts

- 296-96-24XXX Definition and use.
- 296-96-24XXX Hoistway enclosure.
- 296-96-24XXX Hoistway gates and doors.
- 296-96-24XXX Space below hoistway.
- 296-96-24XXX Drive machines.
- 296-96-24XXX Car enclosures.
- 296-96-24XXX Running clearance.
- 296-96-24XXX Car and counterweight guides.
- 296-96-24XXX Loading and unloading.
- 296-96-24XXX Operating devices, terminal stopping devices and electrical protective devices.
- 296-96-24XXX Car safeties.
- 296-96-24XXX Brakes.
- 296-96-24XXX Suspension means.
- 296-96-24XXX Control stations.
- 296-96-24XXX Pits.
- 296-96-24XXX Illumination of landings.
- 296-96-24XXX Signage.

<u>296-96-24XXX</u>	<u>Electrical requirements.</u>
<u>296-96-24XXX</u>	<u>Exposed equipment.</u>
<u>296-96-24XXX</u>	Minimum maintenance requirements.
<u>296-96-24XXX</u>	Inspections required.
<u>296-96-24XXX</u>	Periodic tests.

2. Statement of Problem and Justification (*Please provide a brief explanation and justification statement for this proposal.*)

When WAC 296-96-23601 through 23604 were eliminated and 23605 was revised for examinations, maintenance and testing requirements for material lifts were inadvertently dropped and need to be added back in under Part D, Subpart V, Material Lifts and 296-96-24000 . This will bring examinations, maintenance and testing of existing material lifts to ASME A17.1, parts 8.6 and 8.11.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 20119-24000

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Bob Oury / Pace Material Handling, Inc.		Date 2.22.19
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number [REDACTED]
Street Address [REDACTED]	City [REDACTED]	State [REDACTED] Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

WAC 296-96-24000

Applicable codes and rules.

~~Standard application-~~ WAC material lifts shall comply with the rules adopted by the department that were in effect at the time the conveyance was permitted, regardless of whether the rule(s) has been repealed, unless any new rule specifically states that it applies to all conveyances regardless of when the conveyance was permitted. Copies of previous rules adopted by the department are available upon request.

If the department determines that a ~~standard application~~ WAC material lift was installed without a permit and/or without an inspection, the conveyance will be required to comply with the current rules adopted by the department at time of discovery.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

We recommend changing the terminology from "standard application" to "WAC material lift", to eliminate any possible confusion.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24401

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24401

Applicable requirements.

(1) Existing belted manlifts must comply with the current adopted ASME A90.1 standard and this section.

~~Belt manlifts shall comply with the code under which the unit was installed.~~

(2) ~~Where a unit was installed when no code was available (pre-1949), the unit shall, as a minimum, comply with the oldest adopted standard (i.e., ASME A90.1-2003).~~

(3) (2) Appendix I and II records shall be kept in a secure location within the building and be readily accessible to maintenance personnel and inspectors.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

1. There is no grandfathering in the A90.1 standard. "1.3 Application (c) One year after the date of issuance, all provisions of this Standard shall apply to both new and existing installations, except as noted in individual sections."



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24416

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24416
Landings.
~~(1) Vertical clearance between the floor or mounting platform and the lower edge of the conical guard above it shall be at least 7 ft., 6 in. When this clearance is not possible, access to the manlift shall be prohibited and the space where the runway passes through the platform floor shall be enclosed.~~
~~(2) Floor space adjacent to floor openings shall be kept clear and free of obstructions at all times.~~
~~(3) Adequate lighting shall be provided at each floor landing whenever the lift is in use.~~
Note: For purposes of this section "adequate lighting" means 5 foot candles.
~~(4) The landing surfaces at all entrances and exits shall provide safe footing and shall have a coefficient of friction of not less than 0.5 to help ensure safe footing.~~
~~(5) Emergency landings shall be provided so that the maximum distance a person travels on the emergency ladder between an emergency landing and a floor landing is 25 ft.~~
Emergency landings shall:
~~(a) Be accessible from both runs of the lift;~~
~~(b) Give access to the emergency ladder; and~~
~~(c) Be completely enclosed with a standard railing and toeboard.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24419

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

~~296-96-24419~~

~~Landing guards and cones.~~

~~(1) On the ascending side of the lift, all landings shall have a beveled guard or cone that meets the following requirements:~~

~~(a) Where possible, a cone shall make an angle with the horizontal of at least 45 degrees. A cone angle of 60 degrees or more shall be used where ceiling heights permit.~~

~~(b) Where possible, the guard or cone shall extend at least 42 in. outward from any belt handhold. A guard or cone shall not extend beyond the upper surface of the floor above.~~

~~(c) A cone shall be built of sheet steel (at least No. 18 U.S. gauge) or any material of equivalent strength or stiffness. The lower edge of a cone shall be rolled to a minimum diameter of 1/2 in. The interior of a cone shall~~

~~be smooth with no protruding rivets, bolts, or screws.~~

~~(2) All obstructions shall be guarded just like floor openings with the same minimum distances observed.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24422

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24422

~~Guarding of entrances and exits.~~

~~(1) All manlift floor or landing entrances and exits shall be guarded by either a maze (staggered railing) or a handrail equipped with self-closing gates.~~

~~(2) When a maze is used:~~

~~(a) Maze or staggered openings shall not allow direct passage between a platform enclosure and the outer floor space;~~

~~(b) Rails shall be located between 24 and 48 in. from the edge of the opening as measured at right angles to the face of the belt; and~~

~~(c) At openings, the intersection of the top rail and the end post shall form a bend or standard long sweep "ell."~~

~~(3) When a handrail is used:~~

~~(a) Rails shall be standard guardrails; and~~

~~(b) Gates shall have rounded corners, open outward, and be self-closing.~~

~~(4) Unless prevented by building design, all entrances and exits at all landings shall be in the same relative location.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24425

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

~~296-96-24425~~
 Guarding of floor openings.
 Except on the entrance or exit side, floor openings at each landing shall be guarded.
 (1) The guards shall be constructed by one of the following methods:
 (a) A standard railing and toeboard;
 (b) Panels of wire mesh (not less than No. 10 U.S. gauge);
 (c) Panels of expanded metal (not less than No. 13 U.S. gauge);
 (d) Panels of sheet metal (not less than No. 13 U.S. gauge); or
 (e) Metal on a frame of either angle iron (at least 1 1/4 by 1 1/8 in.) or 1 1/4 in. iron pipe.
 (2) When a belt manlift is installed in a stairwell, a standard guardrail shall be placed between the floor openings and the stairway.
 (3) Rails or guards shall be:
 (a) At least 42 in. high on the up-running side and 66 in. high on the down-running side; and
 (b) Be located not more than 1.0 ft. from the edge of the floor opening.
 (4) If a guardrail is used, the section of the guard above the rail may be constructed:
 a) According to ASME A90.1; or
 (b) Using either vertical or horizontal bars capable of rejecting a 6 in. diameter ball.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24428

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

██

Phone Number

████████████████

Fax Number

Street Address

████████████████████

City

██████

State

███

Zip Code

██████

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24428

Guarding of floor landings.

Expanded metal, sheet metal or wooden guards shall be installed on each floor landing to prevent people from placing their hands in areas where step-rollers operate. These guards shall be installed on each exposed side of the lift and extend from the floor to a height of 84 in.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24431

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24431

Bottom landings-

(1) Bottom landing clear areas:

(a) Where possible, the clear area of a bottom landing shall be at least the size of the area enclosed by guardrails on the floors above;

(b) A clear area shall be free of stairs and ladders; and

(c) If a wall on the bottom landing is located in front of the down-running side of the belt, it shall be installed at least 48 in. away from the belt face.

(2) The lowest landing serviced by the lift shall support the lower (boot) pulley installation.

(3) A mounting platform shall be installed on the lowest landing unless the landing floor is at or above the point at which the upper surface of the belt steps assume or leave a horizontal position.

(4) If a mounting platform is installed, it shall be located in front of or to one side of the up/down run.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24434

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24434

Top clearances:

(1) ~~When the center of the head pulley is more than 72 in. above the top landing, an emergency landing and ladder shall be installed.~~

(2) ~~The location of the emergency landing shall be 24 in. below the center of the head pulley.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24437

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

~~296-96-24437~~

~~Emergency exit ladders.~~

~~Emergency exit ladders shall:~~

~~(1) Be a fixed metal type;~~

~~(2) Be accessible from either the "up" or "down" path of the lift;~~

~~(3) Be installed when the vertical distance between the landings exceeds 20 ft.; and~~

~~(4) Be constructed to comply with current general safety standards except enclosed cages need not be built;~~

~~(5) Provide access to an emergency exit;~~

~~(6) Be located in a position so that in an emergency a person can safely transfer from the manlift to the ladder.~~

~~Note: Transfer is considered safe when a person can maintain 3 points of contact while making the transfer.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24440

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

296-96-24440

Lighting-

~~(1) When a lift is in operation, both runs shall be illuminated at all points with an intensity of at least 1.0 foot-candle.~~

~~(2) Lighting control in runways shall be:~~

~~(a) Circuits tied permanently into the building circuits (no switches);~~

~~(b) Near the starting switch that controls the lift motor; or~~

~~(c) Separate switches located on every landing and with each switch having the capability of turning on all lights throughout the entire runway.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24445

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. **Proposal** (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24445
~~Drive machines.~~
~~(1) Belt manlifts shall be driven either by directly connected machines or by multiple "V" belts.~~
~~(2) Cast iron gears shall not be used.~~
~~(3) Brakes:~~
~~(a) On direct connected machines, the brake shall be mechanically applied to the motor shaft and released electronically.~~
~~(b) On "V" belt driven machines, the brake shall be mechanically applied to the input shaft and released electronically.~~
~~(c) All brakes shall be capable of stopping and holding the lift while carrying its rated capacity.~~
~~(4) Belts:~~
~~(a) Belts shall not have more than one splice per belt.~~
~~(b) There shall not be more than 1 in. of space between the opposing ends of the belt.~~
~~(c) A belt manlift that has evidence of severe belt damage shall be removed from service immediately. Belts with severe belt damage shall not be repaired and/or returned to service. "Severe belt damage" means that the protective outer cover of a belt becomes cut, cracked or separated exposing damaged inner fabric, and such damage extends across the full width of the belt, spans between adjacent bolt holes, or damage goes through the entire thickness of the inner fabric. A torn belt is also considered severe.~~
~~EXCEPTION: A lap splice that has become cracked or damaged may be converted to a butt splice and returned to service, provided that the damaged area on the splice is completely removed.~~
~~(d) The conversion of a lap splice to a butt splice does not constitute a repair.~~
~~(e) A belt that has evidence of superficial belt cover damage while in use on a manlift is not required to be replaced. "Superficial belt cover damage" means that the protective outer cover of a belt becomes scratched;~~

cut or cracked exposing the inner fabric. Such damage shall not be continuous across the full width of the belt.

(5) Belts fastening:

(a) Shall be fastened either by a lap splice or a butt splice with a strap on the belt side opposite the pulley.

(b) For lapped splices on manlifts with travel distances not exceeding 100 ft., the overlap of the belt at the splice shall be at least 36 in.; or

(c) For lapped splices exceeding 100 ft., the overlap at the splice shall be at least 48 in.

(d) For butt splices on manlifts with travel distances not exceeding 100 ft., the strap shall extend at least 36 in. on one side of the butt; or

(e) For butt splices on manlifts exceeding 100 ft., the strap shall extend at least 48 in. on one side of the butt.

(f) For 12 in. belts, the joint shall be fastened with a minimum of 20 special elevator bolts with minimum diameters of 1/4 in. To effectively cover the belt joint area, these bolts shall be arranged symmetrically in 5 rows.

(g) For a 14 in. belt, the minimum number of bolts is 23.

(h) For a 16 in. belt, the minimum number of bolts is 27.

(6) All installations shall use machines designed and constructed to hold the driving pulley when there is shaft failure or overspeed.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24448

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

- 1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)**

296-96-24448

Operating speed.

The maximum belt speed of a belt manlift is 80 ft./min. No belt manlift shall be installed that exceeds this maximum speed limit, and all belt manlifts in a given location should run at approximately the same speed.

- 2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)**

Repeal as this is found in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24451

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24451

~~Step requirements.~~

~~(1) Measured from the belt to the edge of the step, the minimum depth of a step is 12 in. and the maximum depth is 14 in.~~

~~(2) Step width shall not be less than the width of the belt to which it is attached.~~

~~(3) Measured from the upper surface of one step to the upper surface of the next step above, the distance between steps shall be at least 16 ft. and the steps shall be equally spaced along the belt.~~

~~(4) A step shall be attached to the belt so its surface approximates a right angle with the face of the belt enabling the step to travel in basically a horizontal position with the "up" and "down" path of the belt.~~

~~(5) The working (upper) surface of a step shall be made of either a material having nonslip characteristics (possessing a coefficient of friction of not less than 0.5) or be completely covered with a securely attached nonslip tread.~~

~~(6) Step supports (frames) and guides shall be sufficiently strong to prevent:~~

~~(a) The disengagement of any step roller;~~

~~(b) Any appreciable misalignment; or~~

~~(c) Any visible deformation of the step or its support.~~

~~(7) Steps shall have corresponding handholds.~~

~~(8) If a step is removed for any reason, the handholds immediately above and below it shall be removed before the lift resumes operation.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1

Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24454

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24454

~~Handholds.~~

~~(1) Handholds attached to the belt shall be provided and installed so that they are not less than 48 in. nor more than 56 in. above the step tread. These handholds shall be available on both the "up" and "down" run of the belt.~~

~~(2) All handhold grab surfaces shall be at least 4 1/2 in. in width. Fastenings shall not come within 1 in. of the belt edge.~~

~~(3) All handholds shall be capable of withstanding, without damage, a 300 lb. load applied parallel to the belt run.~~

~~(4) All handholds shall have corresponding steps. When a handhold is removed for any reason, the corresponding step and handhold for the opposite direction of travel shall also be removed before the lift resumes operation.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is found in A90.1

Elevator Rule Development Form Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24457

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. **Proposal** (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24457

Up-limit stop devices.

- (1) Two separate automatic stop devices shall be provided to cut off the power and apply the brake when a loaded step passes the upper terminal landing. One of these devices shall consist of a switch mechanically operated by the belt or ~~stop~~step roller. The second device shall consist of any of the following:
- (a) A roller switch located above but not in line with the first switch;
 - (b) A photocell and light source (an "electric eye"); or
 - (c) A switch activated by a lever, bar, rod, or plate.
 - (i) If a plate is used, it shall be positioned above the head pulley so it barely clears a passing step.
 - (ii) If a bar is used, the bar shall be of the "breakaway" type.
- (2) The stop device shall stop the lift before a loaded step reaches a point 24 in. above the top terminal landing.
- (3) Once the lift has stopped, the automatic stop device shall be manually reset. Therefore, this device shall be located on the top landing where the person resetting the device has a clear view of both the "up" and "down" runs of the lift; and it shall be impossible to reset from a step.
- (4) ~~Electric stop devices shall meet the following requirements:~~ Stop devices shall comply with the requirements found in the current adopted ASME A90.1
- ~~(a) All electric switches that directly open the main motor circuit shall be multiple type switches;~~
 - ~~(b) Photoelectric devices shall be designed and installed so that failure of the light source, the light sensitive element or any vacuum tube used in the circuit will result in shutting off the power to the driving motor;~~
 - ~~(c) In areas where flammable vapors or dust may be present, all electrical installations shall be in accordance with the NEC requirements for those installations; and~~
 - ~~(d) All controller contacts carrying main motor current shall be copper to carbon types unless the circuit is simultaneously broken at two or more points or the contacts are immersed in oil.~~

2. Statement of Problem and Justification (*Please provide a brief explanation and justification statement for this proposal.*)

Retain paragraphs (1) - (3) as many of the existing lifts cannot accommodate the three devices required in A90.1

(4) modify to ensure that when devices are used that they must comply with the current standard, as 4(a)-(c) are already found in the standard.

Proposal Number: 2019-24460

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (*Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.*)

~~296-96-24460~~

~~Emergency stop devices.~~

~~All belt manlifts shall have emergency stop devices that:~~

- ~~(1) Are located within easy reach of the "up" and "down" run of the belt;~~
~~(2) Stop power to the lift and apply the lift brake when pulled in the direction of travel;~~
~~(3) Have a treadle switch (manual reset type) that is located below the lowest landing on the belt's "down" side and, if a person fails to get off at the lowest landing, stops the lift and ejects the person from the step as it approaches the boot pulley;~~
~~(4) Are made of cotton rope with a wire center, manila or sisal rope, or metal pipe or tubing. Wire rope cannot be used, unless covered with marlin. Rope stops shall be at least 3/8 in. in diameter; and~~
~~(5) An emergency stop may be used for normal stopping and starting if the lift does not run continuously.~~

2. Statement of Problem and Justification (*Please provide a brief explanation and justification statement for this proposal.*)

Repeal as this is covered in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24466

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24466

Warning signs.

(1) Instructional signs explaining how to use the belt lift shall be:

(a) ~~Conspicuously posted on each landing or stenciled on the belt;~~

(b) ~~Printed in an easily read style with letters at least 1 in. in height;~~

(c) ~~Printed in a color that clearly contrasts with the background surface (for example, white or yellow on black or black on white or gray); and~~

(d) ~~Examples of instructional signs are:~~

▲ ~~"Face the belt";~~

▲ ~~"Use the handhold";~~

▲ ~~"To stop—Pull rope."~~

(2) ~~Warning signs and/or lights shall include an illuminated sign or red warning light announcing the top floor and shall be within easy view of an ascending passenger.~~

(a) ~~If a sign, it shall be located no more than 2 ft. above the top terminal landing and printed in block letters (at least 2 in. in height) displaying the words, "Top floor—Get off."~~

(b) ~~If a red light, it shall have at least a 40-watt rating and be located immediately below the upper terminal landing where it will shine in the belt passenger's face.~~

(3) ~~There shall be conspicuous signs on each landing that read, "Employees only—Visitors keep off," printed in block letters at least 2 in. in height in a color that sharply contrasts with the background.~~

(4) ~~A sign or red light shall be conspicuously posted above the bottom landing announcing its approach. These shall be:~~

(a) ~~If a sign, printed in block letters at least 2 in. in height that sharply contrast with the background and reads, "Bottom floor—Get off."~~

(b) ~~If a light, rated at least 40 watts.~~

(5) ~~An electronic warning buzzer shall be installed 5 ft. above the bottom landing on the down side of the belt to warn belt riders of the approaching landing. This warning buzzer shall be automatically activated by load weight on a step.~~

2. Statement of Problem and Justification (*Please provide a brief explanation and justification statement for this proposal.*)

Repeal as this is covered in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24470

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24470

~~Restricted use of manlifts.~~

~~(1) No freight or packaged goods may be carried on any manlift;~~

~~(2) No pipe, lumber, or other construction materials may be handled on any manlift; and~~

~~(3) No tools except those which will fit entirely within a pocket of ordinary working clothes may be carried on any manlift, except as follows:~~

~~(a) Tools may be carried in a canvas bag not larger than 11 in. by 13 in.;~~

~~(b) The bag shall have a leather bottom; and~~

~~(c) The bag shall have loops or handles to be carried in the passenger's hand while riding the manlift.~~

~~Shoulder straps are prohibited.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is covered in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24478

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24478

Inspection requirements.

~~(1) All manlifts shall be inspected by a qualified person, designated by the lift's owner, at least once every 30 days.~~

~~(2) The inspection shall cover, but is not limited to, the following items:~~

- ~~• Belt and belt tension;~~
- ~~• Bottom (boot) and pulley;~~
- ~~• Brake;~~
- ~~• Clearance;~~
- ~~• Drive pulley;~~
- ~~• Driving mechanism;~~
- ~~• Electrical switches;~~
- ~~• Guardrails;~~
- ~~• Handholds and fastenings;~~
- ~~• Lubrication;~~
- ~~• Motor;~~
- ~~• Pulley supports;~~
- ~~• Rails, rail supports and fastenings;~~
- ~~• Rollers and slides;~~
- ~~• Signal equipment;~~
- ~~• Steps and fastenings;~~
- ~~• Warning signs and lights.~~

~~(3) A written record shall be kept of results of each inspection, and shall be made available to all inspectors. This information shall be recorded under the monthly portion of the test log required by Appendix A of ASME A90.1 1997.~~

~~(4) For purposes of this section "adequate lighting" means 5 foot-candles.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

Repeal as this is covered in A90.1



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24480

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24480
~~Five-year test requirements. Additional annual testing requirements~~
~~A five-year test of the belt manlifts shall be conducted, and the test shall be administered under the following conditions:~~
 (1) Qualified people will conduct the test. A qualified person is either:
 (a) An elevator mechanic licensed in the appropriate category of the conveyance being tested;
 (b) The representative of a firm that manufactured the particular belt manlift who holds a current temporary mechanic's license in this state; or
 (c) The representative of a firm that manufactured the particular belt manlift who is working under the direct supervision of an elevator mechanic licensed in the appropriate category of the conveyance being tested.
~~(2) The up capacity of the belt manlift shall be tested with 200 lbs. on each horizontal step. During the uprun portion of the test the belt manlift shall not show appreciable slip of the belt when standing or running at rated speed.~~
~~(3) The down capacity of the belt manlift shall be tested with 200 lbs. on each horizontal step. During the down run portion of the test the belt manlift shall not show appreciable slip of the belt when standing or running at the rated speed. The brake shall stop and hold the belt with test load within a maximum of 24 in. of travel.~~
 (4) ~~(2)~~ After the five year test has been performed a A tag indicating the date of the test and name of the company performing the test shall be attached in a visible area of the drive motor machine. The tag shall have all applicable ASME A90.1, 8.1 test descriptions and code references.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

A90.1 requires annual testing, there is not 5 year test found in any edition of A90.1. This equipment may run 24hrs a day non stop and it is a safety hazard not to require the mandated annual test.

(1) Retain to ensure that testing is performed by a qualified person

(2) and (3) Repeal as this language is covered in A90.1

(4) Modify to remove the 5 year language and retain the rest. The current A90.1 does not have test tag requirements and it is important to the owner, mechanic, inspector, and end users that testing is being performed.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24500

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	ElevatorSect@Lni.wa.gov	360-902-6132

Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24500
Scope.
(1) These requirements apply to ~~special purpose personnel elevators~~ electric manlifts installed prior to January 1, 1999, in facilities in which agricultural products are stored, food products are processed, goods are manufactured, energy is generated, or similar industrial or agricultural processes are performed.
(2) Where a special purpose ~~personnel~~ elevator was installed after January 1, 1999, the conveyance shall comply with the requirements for a special purpose elevator found in the edition of ASME A17.1-5.3 or A17.1/B44 that was in effect at the time.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(1) Electric manlifts cannot be renamed as a special purpose elevator. These elevators are still in use and do require repairs and, in some instances, an alteration. By referring to them as special purpose elevators any alteration would require that the lift be removed in its entirety as they cannot comply with ASME A17.1 Section 8.7
This also causes a problem with rack and pinion special purpose elevator that are installed in these types of locations that were designed and installed in accordance with ASME A17.1-5.3 special purpose elevators. This rule section requires that all lifts be suspended by two hoist ropes, for example, and other requirements that are less stringent than ASME A17.1
(2) Remove "personnel" as they are referred to as Special Purpose Elevators in ASME A17.1-5.3



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24516

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

296-96-24516

Maintenance requirements.

(1) Examinations, in compliance with WAC 296-96-23605, are to be performed and documented in the maintenance and testing records.

Test tag(s) shall be attached to a wall inside the cab (car enclosure).

(2) Owners of electric manlifts are responsible for ensuring that:

(a) ~~Elevators and~~ Their parts are maintained in a safe condition;

(b) All devices and safeguards required by these regulations are maintained in good working order; and

(c) Maintenance, ~~examinations~~, and safety tests are to be performed and documented to the applicable requirements found in ASME A17.1 Section 8.6 as applicable to the sections of WAC 296-96-24519 through 296-96-24560.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(2)(c) Remove "examinations" as this is stated in (1). Adding the reference to A17.1 - 8.6 will clarify that maintenance and testing is to be performed in compliance with the applicable parts.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24528

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24528
Car doors and gates.
All elevators electric manlifts shall have car doors, except on fully enclosed hoistways equipped with hoistway gates and enclosed from the top of the hoistway opening to the ceiling on the landing side.
(1) Car doors shall be:
(a) Constructed of solid or perforated material capable of resisting a 75 lb. thrust without deflecting 1/4 in. If perforated material is used, it shall reject a 1 in. diameter ball.
(b) Biparting or otherwise horizontally swung provided the door swings within the elevator car.
(c) All car doors or gates shall be equipped with an electric contact.
(i) An electrical and mechanical interlock must be provided when a safe means of self-evacuation, a ladder, is not provided
(2) ~~Interlocks or a combination consisting of mechanical locks and electric contacts shall be provided on car gates on elevators in unenclosed hoistways unless a safe means of self-evacuation is provided. Such means shall be approved by the department.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(c) Add this switch to ensure that the car door/gate, when opened, will not allow the elevator to run.
(i) Add this type of switch to ensure that the car door/gate cannot be opened when an emergency ladder is not provided.
(2) is not needed as (c) and (i) provide more clarity.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24537

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24537

Suspension means.

There shall be at least 2 hoisting ropes. Each rope shall be:

(1) Made of a good grade of elevator traction wire rope;

(2) At least 3/8 in. in diameter and possessing a safety factor of 5;

(3) Fastened by babbitted tapered elevator sockets or other acceptable methods. If cable clamps are used, a minimum of 3 fist grip or equivalent clamps shall be provided. U-shaped clamps shall not be acceptable.

(4) Long enough so the car platform will be no more than 6" above the top landing when the counterweight buffer is fully compressed, and at least 6" from the deflector sheave when the car buffer is fully compressed.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(4) was removed from the original proposed language and needs to be reinserted to ensure proper run by.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24543

How to Submit this Form:

Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information

Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24543
Car safeties.
All cars suspended or operated from overhead machinery shall be equipped with an approved car safety capable of stopping and holding the car while carrying its rated load.
(1) Car safeties shall be mechanically operated and not be affected by any interruptions in the electrical circuit.
(2) Car safeties and governor controlled safeties shall operate automatically and the control circuit shall be interrupted in the event the safeties set.
(3) All ~~special purpose elevators~~ electric manlifts shall be equipped with an overspeed governor that shall not exceed 175 ft./min. and shall deenergize the brake control and motor drive circuits simultaneously when the car safety mechanism is activated.
(4) Winding drum type machines shall have a manual-reset slack rope device that interrupts the drive motor and brake circuits.
(5) ~~Separate safety tags shall be used to distinguish the no-load annual safety test and the five-year full load test.~~

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(3) Remove the reference to special purpose as these are electric manlifts
(5) Remove this as it does not belong in this requirement.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24553

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
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Submitter Information		
Name/Company Name Mike Wilson	Phone Number [REDACTED]	Date 8 February 2019
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number
Street Address [REDACTED]	City [REDACTED]	State Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscores to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24553
Drive machines.

(1) ~~Elevator machines~~ Electric manlifts shall be driven by approved-type units.

(a) On direct drive or approved worm gear driven type, a mechanically actuated, electrically released brake shall be installed on the driving unit.

(b) On V belt driven types, a minimum of 4 belts, 1/2 in. minimum size, shall be used to transmit power from the motor to the drive shaft and a mechanically activated, electrically released brake shall be installed on the final drive shaft.

(c) All winding drum machine type elevators shall be equipped with top and bottom final limit switches.

(2) Wherever practical, ~~elevator drive machines~~ shall be installed on the top side of the supporting structure.

(3) All components of the driving mechanism and parts subject to stress involved in suspending the load or related equipment shall be designed to withstand 8 times the total weight to be suspended, including load, counterweight, car and cables.

(4) Gears shall be made of steel or equivalent material. Cast iron gears are prohibited.

(5) A working platform, with railings complying with the applicable requirements adopted according to chapter 49.17 RCW, shall be provided to allow for safely working on equipment.

(6) A light with a switch shall be located near the elevator driving machine or the machinery space.

(7) A means to lockout/tagout the ~~elevator manlift~~ equipment shall be ~~provided~~ located near the driving machine or the machinery space.

(8) The ~~elevator manlift~~ machinery shall be protected from the weather.

(9) All sheaves shall be appropriately guarded per the requirements adopted according to chapter 49.17 RCW.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(7) This was changed from the original proposal and must be reinserted as many of these lifts have the motor located at the top and the controller located elsewhere.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24560

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
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PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

296-96-24560

Additional applicable requirements.

(1) Car speeds shall not exceed 125 ft./min.

(2) Alterations must conform with the applicable requirements of WAC 296-96-24519 – WAC 296-96-24557

(3) Electric manlift controls and disconnects must be accessible and labeled.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(2) This was left off from the original proposal. This is to clarify that alterations be performed to meet the WAC standard as it is not possible to meet the requirements in A17.1-8.7

(3) This was left off from the original proposal. This is to ensure worker safety regarding access to, around, and identifying controls and disconnects for these types of elevators



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-24600

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	ElevatorSect@Lni.wa.gov	360-902-6132

Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24600
Scope.
This section covers elevators hand-powered manlifts that have the capacity of 1 person and are installed in a facility prior to January 1, 1999, in which agricultural products are stored, food products are processed, goods are manufactured, energy is generated, or similar industrial or agricultural processes are performed.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

These are hand-powered manlifts not to be confused with hand elevators as found in A17.1-4.3



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-24611

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	<u>ElevatorSect@Lni.wa.gov</u>	360-902-6132

Submitter Information			
Name/Company Name		Date	
Mike Wilson		8 February 2019	
Email Address	Phone Number	Fax Number	
[REDACTED]	[REDACTED]		
Street Address	City	State	Zip Code
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike through~~ to denote language to be deleted.)

296-96-24611
Maintenance and test requirements.
(1) Maintenance and tests shall comply with the applicable requirements found in ASME A17.1/CSA B44, Section 8.6.
(a) Test tag(s) shall be attached to the inside of the car.
(b) ~~Hand-elevators~~ Manlifts with wooden rails shall be safety tested with no load annually there is not a full load testing requirement.
(2) Qualified people shall conduct the test. A qualified person is either:
(a) An elevator mechanic licensed in the appropriate category for the conveyance being tested;
(b) The representative of a firm that manufactured the particular conveyance and who holds a current temporary mechanic's license in this state; or
(c) The representative of a firm that manufactured the particular conveyance who is working under the direct supervision of an elevator mechanic licensed in the appropriate category for the conveyance being tested.
(3) Examinations, in compliance with WAC 296-96-23605, are to be performed and documented in the maintenance and testing records.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(b) Clarifies that these are manlifts and that safety tests on wooden rails is to be done with no load in the car. This follows the exception for Category 1 and 5 testing requirements found in A17.1 regarding wooden rails Excerpt from ASME A17.1 (Category 5) Rule 8.6.4.20.1 Car and Counterweight Safeties.

(a) Rated Load and Rated Speed Test. Car safeties, except those operating on wood guide rails, and their governors, shall be tested with rated load in the car. Counterweight safety tests shall be made with no load in the car. Tests shall be made by tripping the governor by hand at the rated speed. The following operational conditions shall be checked (Item 2.29.2):



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-296-96-24630

How to Submit this Form:		
Mail requests to:	Email requests to:	Fax requests to:
Department of Labor & Industries Elevator Program PO Box 44480 Olympia Wa 98504-4800	ElevatorSect@Lni.wa.gov	360-902-6132

Submitter Information			
Name/Company Name Mike Wilson		Date 8 February 2019	
Email Address [REDACTED]	Phone Number [REDACTED]	Fax Number	
Street Address [REDACTED]	City [REDACTED]	State [REDACTED]	Zip Code [REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underscore to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24630
 Habitable space beneath the car and counterweight.
~~There shall not be habitable space below an elevator hoistway or counterweight shaft unless the floor above the space can withstand the impact of a freely falling car with rated load or counterweight.~~
There shall not be habitable space below an elevator hoistway or counterweight shaft unless the floor above the space can withstand an impact 125 percent greater than the impact generated by a free falling car with rated load or counterweight falling from the full height of the hoistway.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

This language came from the electric manlift section and makes better sense, consistency.



Elevator Rule Development Form

Chapter 296-96 WAC Elevator Rules

Proposal Number: 2019-24670

How to Submit this Form:

Mail requests to:

Department of Labor & Industries
Elevator Program
PO Box 44480
Olympia Wa 98504-4800

Email requests to:

ElevatorSect@Lni.wa.gov

Fax requests to:

360-902-6132

Submitter Information

Name/Company Name

Mike Wilson

Date

8 February 2019

Email Address

[REDACTED]

Phone Number

[REDACTED]

Fax Number

Street Address

[REDACTED]

City

[REDACTED]

State

[REDACTED]

Zip Code

[REDACTED]

1. Proposal (Please provide the WAC rule number or National Code Section and include the new or revised language or language for deletion. Use underline to denote the language to be inserted and ~~strike-through~~ to denote language to be deleted.)

296-96-24670

Hoistway requirements.

(1) Escape ladders shall be installed and shall extend the full length of the hoistway.

(a) Ladders shall be installed in a manner to provide access to an emergency exit and shall be located in a position so that in an emergency a person can safely transfer from the car platform to the ladder.

Note: Transfer is considered safe when a person can maintain 3 points of contact while making the transfer.

(b) An "IMPAIRED CLEARANCE" sign shall be posted at the bottom of a ladder when the face of the ladder is less than 30 in. from any structure.

(2) The minimum clearance between a car side and the hoistway enclosure is 1 in.

(3) The clearance between a car platform and a landing sill shall be at least 1/2 in. but not more than 1 1/2 in.

(4) Adequate lighting must be installed and operating.

NOTE: for the purpose of this section adequate lighting is 5fc.

2. Statement of Problem and Justification (Please provide a brief explanation and justification statement for this proposal.)

(4) This is for user safety to ensure that they are not operating in the dark.