Comment 1 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ray Last Name: Galan

Email Address: raygalan@ferrellgas.com

Affiliation: WPGA

Subject: Zero-Emission Forklift - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/7-zeforklifts-VzpRPAAsVjEBNQEx.pdf'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation (003).pdf

Date and Time Comment Was Submitted: 2023-12-18 11:11:13

Comment 2 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ted Last Name: Olsen

Email Address: tedolsen@ferrellgas.com

Affiliation:

Subject: ZEForklifts

Comment:

See attached letter.

Attachment: 'www.arb.ca.gov/lists/com-attach/8-zeforklifts-AG0Ga1xwAmUGMgMz.pdf'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation.pdf

Date and Time Comment Was Submitted: 2023-12-18 11:26:29

Comment 3 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: TODD Last Name: PEACHEY

Email Address: toddpeachey@ferrellgas.com

Affiliation: FERRELLGAS.INC.

Subject: ZERO -EMISSION FORKLIFT REGULATION

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/9-zeforklifts-VTkGZVYjWH8CYQl7.pdf'

Original File Name: LETTER.pdf

Date and Time Comment Was Submitted: 2023-12-18 11:34:46

Comment 4 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jeff

Last Name: STICLARU

Email Address: jeffreysticlaru@ferrellgas.com

Affiliation: Ferrellgas Propane

Subject: CARB Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/10-zeforklifts-UD1TPld7BWIANFdn.pdf'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation.pdf

Date and Time Comment Was Submitted: 2023-12-18 11:39:25

Comment 5 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Drew Last Name: Hensler

Email Address: drewhensler@ferrellgas.com

Affiliation:

Subject: Forklift Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/11-zeforklifts-BWhcMVR4BGMANAAw.docx'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation.docx

Date and Time Comment Was Submitted: 2023-12-18 11:46:29

Comment 6 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Reginald Last Name: Caldwell

Email Address: reginaldcaldwell@ferrellgas.com

Affiliation:

Subject: Propane

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/12-zeforklifts-WzYHalZ6UTYANAg4.pdf'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation.pdf

Date and Time Comment Was Submitted: 2023-12-18 12:02:02

Comment 7 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Robert Last Name: Lagge

Email Address: robertlagge@ferrellgas.com

Affiliation: Ferrellgas

Subject: Save ICE forklifts

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/13-zeforklifts-Am9RPFJ+UTZXYwAw.docx'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation.docx

Date and Time Comment Was Submitted: 2023-12-18 11:56:26

Comment 8 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Julie Last Name: Johnson

Email Address: juliejohnson@tedjohnsonpropane.com

Affiliation:

Subject: Public Comments RE: ZE Forklift Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/14-zeforklifts-UDwCYVUgUXYFZgl7.pdf'

Original File Name: Letter To CARB ZE Forklift Rulemaking.pdf

Date and Time Comment Was Submitted: 2023-12-18 12:22:20

Comment 9 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Lora Last Name: Brazil

Email Address: lorabrazil@ferrellgas.com

Affiliation:

Subject: Zero Emission Forklift Regulation

Comment:

Please see attached.

Attachment: 'www.arb.ca.gov/lists/com-attach/15-zeforklifts-WjdUOVd7A2QBNQg4.pdf'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation.pdf

Date and Time Comment Was Submitted: 2023-12-18 12:42:19

Comment 10 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Bryan Last Name: Heath

Email Address: bryanheath@ferrellgas.com

Affiliation:

Subject: Zero Emission Forklift

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/16-zeforklifts-Uz5UOVV5VzBXY1Vl.pdf'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation.pdf

Date and Time Comment Was Submitted: 2023-12-18 12:48:04

Comment 11 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Craig Last Name: Rodgers

Email Address: craigrodgers@ferrellgas.com

Affiliation:

Subject: zero emission forklift

Comment:

Attachment: "

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation (003).docx

Date and Time Comment Was Submitted: 2023-12-18 12:58:36

Comment 12 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Bob Last Name: Shepherd

Email Address: bshepherd@quinncompany.com Affiliation: The California Caterpillar Dealers

Subject: Proposed Zero-Emission Forklift (ZEF) Regulation – Many Unresolved Issues

Comment:

See attached letter explaining many unresolved issues and regulatory conflicts.

Attachment: 'www.arb.ca.gov/lists/com-attach/18-zeforklifts-UylQMwZ1V2sKIQFk.pdf'

Original File Name: Zero-Emission Forklift March 2023 Draft Comments Dec 18.pdf

Date and Time Comment Was Submitted: 2023-12-18 13:30:38

Comment 13 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Tom Last Name: Boerum

Email Address: tomboerum@mutualpropane.com

Affiliation: MUTUAL LIQUID GAS INC

Subject: Zero-Emission Forklifts – Proposed Regulation

Comment:

Please see attachment.

Attachment: 'www.arb.ca.gov/lists/com-attach/19-zeforklifts-AmFQN10uBzYHXgJu.pdf'

Original File Name: carb Letter ZE Forklift FINAL.pdf

Date and Time Comment Was Submitted: 2023-12-18 14:07:22

Comment 14 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Geoff Last Name: Moore

Email Address: Geoff@mutualpropane.com Affiliation: MUTUAL LIQUID GAS INC

Subject: Zero-Emission Forklifts – Proposed Regulation

Comment:

Please see attachment.

Attachment: 'www.arb.ca.gov/lists/com-attach/20-zeforklifts-UzBRNIYlUWBWDwNv.pdf'

Original File Name: carb Letter ZE Forklift FINAL geoff.pdf

Date and Time Comment Was Submitted: 2023-12-18 14:13:08

Comment 15 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jennifer Last Name: Bush

Email Address: jenibush@ferrellgas.com

Affiliation:

Subject: ZE Forklifts

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/21-zeforklifts-BWhSP1F9A2QBNQU1.docx'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation.docx

Date and Time Comment Was Submitted: 2023-12-18 14:38:07

Comment 16 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Huber

Email Address: michael.j.huber20.civ@us.navy.mil

Affiliation: U.S. Department of Defense

Subject: DoD Zero Emission Forklift Comments 18Dec2023

Comment:

ARB,

Attached are the DoD comments on the Zero Emission Forklift regulations.

V/R,

Michael Huber, P.E.
DoD Regional Environmental Coordination (DoD REC 9) Program Manager

750 Pacific Highway, Box 81 San Diego, CA 92132

Attachment: 'www.arb.ca.gov/lists/com-attach/22-zeforklifts-VDBWPwZjAg4He1I3.pdf'

Original File Name: DoD Zero Emission Forklift comments 18Dec2023.pdf

Date and Time Comment Was Submitted: 2023-12-18 17:35:06

Comment 17 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jordan Last Name: Horn

Email Address: jordanhorn@ferrellgas.com

Affiliation: Ferrellgas LP

Subject: Zero Emission Forklift Policy

Comment:

attached

Attachment: 'www.arb.ca.gov/lists/com-attach/23-zeforklifts-AWxdMFF9UDcHMwk5.docx'

 $Original\ File\ Name:\ MK-42036-Zero-EmissionForklifts-ProposedRegulation.docx$

Date and Time Comment Was Submitted: 2023-12-19 07:32:51

Comment 18 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Christopher Last Name: Kentzell

Email Address: chriskentzell@ferrellgas.com

Affiliation:

Subject: forklift regulation

Comment:

against zero emission for forklifts

Attachment: 'www.arb.ca.gov/lists/com-attach/24-zeforklifts-VDlUOVV5WT4BNVBg.pdf'

Original File Name: MK-42036-Zero-EmissionForklifts-ProposedRegulation.pdf

Date and Time Comment Was Submitted: 2023-12-19 09:36:07

Comment 19 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jose Last Name: Rodriguez

Email Address: jose@mutualpropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jose Rodriguez 17117 S Broadway Gardena, CA 90248

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 15:21:27

Comment 20 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Steve Last Name: Maldonado

Email Address: firestrm54@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Steve Maldonado 31691 Leather Wood Dr Winchester, CA 92596

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 15:24:28

Comment 21 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Salvador Last Name: Pena

Email Address: salvadorpena@ferrellgas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Salvador Peña 8088 Miramar Rd San Diego, CA 92126

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:03:53

Comment 22 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Chris Last Name: Hall

Email Address: chrishall24jack@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Chris Hall 12283 Elizabeth Way Grass Valley, CA 95949

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:08:06

Comment 23 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Cassie Last Name: Cesena

Email Address: cassiecesena@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Cassie Cesena 16 S 36th Pl Long Beach, CA 90803

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:10:11

Comment 24 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Skyler Last Name: Castro

Email Address: s.lagreasesolutions@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Skyler Castro 6711 McKinley Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:12:32

Comment 25 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Bryce Last Name: Wheatley

Email Address: bryce@powertriprentals.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Bryce Wheatley 2501 Orange Ave Signal Hill, CA 90755

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:14:27

Comment 26 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Eddie Last Name: Chen

Email Address: eddie.chen@potentialindustries.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Eddie Chen 720 East E Street Los Angeles, CA 90744

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:16:05

Comment 27 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Zuzel Last Name: Vasquez

Email Address: zuzel@kingfiotrucking.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Zuzel Vasquez 5059 Boxford Ave Commerce, CA 90040

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:19:09

Comment 28 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Sandro Last Name: Solorzano

Email Address: sandro@mutualpropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Sandro Solorzano 17117 S Broadway Gardena, CA 90248

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:20:56

Comment 29 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Scott Last Name: Carr

Email Address: scott@mutualpropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Scott Carr 2243 McNeil Cir Corona, CA 92882

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:22:35

Comment 30 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ramon Last Name: Diaz

Email Address: ramon@mutualpropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Ramon Diaz 17117 S Broadway Gardena, CA 90248

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:23:58

Comment 31 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Laura Last Name: Sample

Email Address: laurasample2@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Laura Sample 557 E Cypress Ave Glendora, CA 91741

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-19 16:25:36

Comment 32 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: David Last Name: Pedersen

Email Address: djtpedersen@gmail.com

Affiliation: Bay Area Clean Air Coalition (Unofficial

Subject: Comment on "Notice of Public Hearing to Consider Proposed Zero-Emission Forklift...

"

Comment:

Thank you for the opportunity to submit a comment on this proposed regulation.

I am a Canadian clean-air activist and I work part-time at a facility where forklifts are used frequently and I am well aware of the air and noise pollution they create. I believe that this regulation, if implemented as proposed, will solve those two problems and help improve economic productivity as a co-benefit.

I urge the Board to adopt the regulation as proposed and do as much as possible to accelerate the transition to electric forklifts in all sectors in California.

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 01:44:04

Comment 33 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jose Last Name: Cardiel

Email Address: j.cardiel@bestbaytrucking.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jose Cardiel 620 E Anaheim St Los Angeles, CA 90744

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:07:12

Comment 34 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Biazevich

Email Address: mbiazevich@pcmcus.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michael Biazevich 250 W Wardlow Rd Long Beach, CA 90807

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:08:19

Comment 35 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kaz Last Name: Tsujimoto

Email Address: kaz.tsujimoto@mercedes-benz.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Kaz Tsujimoto 4031 Via Oro Ave Long Beach, CA 90810

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:10:10

Comment 36 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Carolina Last Name: Chavez

Email Address: marketing@falconfuelsinc.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Carolina Chavez 7300 Alondra Blvd Paramount, CA 90723

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:11:45

Comment 37 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Juan Last Name: Del Real

Email Address: juan@refrigeranthandling.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Juan Del Real 5016 Calmview Ave Baldwin Park, CA 91706

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:12:37

Comment 38 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Javier Last Name: Alfaro

Email Address: jalfaro@decostonedesign.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Javier Alfaro 227 E Bristol Ln Orange, CA 92865

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:13:32

Comment 39 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Brian Last Name: Harms

Email Address: b.harms@lane-aire.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Brian Harms 1121 California Ave Corona, CA 92881

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:14:56

Comment 40 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Authur Last Name: Distin

Email Address: office@semblylinesales.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Arthur Distin 12075 Clark St Santa Fe Springs, CA 90670

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:15:53

Comment 41 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Robert Last Name: Stevens

Email Address: robert@gvsca.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Robert Stevens 1545 W Roosevelt St Azusa, CA 91702

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:17:04

Comment 42 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Lisa Last Name: Harris

Email Address: lisa@1smh.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Lisa Harris 12733 San Fernando Rd Los Angeles, CA 91342

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:18:25

Comment 43 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Gregg Last Name: Krekeler

Email Address: gregg.krekeler@tubularsteel.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Gregg Krekeler 2750 N Locust Ave Rialto, CA 92377

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:19:33

Comment 44 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Richard Last Name: Rice

Email Address: rick@rrsigns.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Richard Rice 400 W Foothill Blvd Ste 130 Glendora, CA 91741

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:20:36

Comment 45 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dan Last Name: Guerrero

Email Address: dan@willick.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Dan Guerrero 12516 Lakeland Rd Santa Fe Springs, CA 90670

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:22:25

Comment 46 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Donald Last Name: Harms

Email Address: dharms@lane-aire.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Donald Harms 1121 California Ave Buena Park, CA 90623

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:23:34

Comment 47 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: James Last Name: Probst

Email Address: jprobst@profabtech.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, James Probst 970 W Foothill Blvd Azusa, CA 91702

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:24:35

Comment 48 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mark Last Name: Miedema

Email Address: mmiedema@encorrsheets.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Mark Miedema 5171 E Francis St Ontario, CA 91761

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:25:38

Comment 49 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Heidi Last Name: Strand

Email Address: strandssf@aol.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Heidi Strand 315 S Richman Ave Fullerton, CA 92832

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:26:40

Comment 50 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Edward Last Name: Dart

Email Address: darthere@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Edward Dart 151 N Cielito Lindo Anaheim, CA 92807

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:27:43

Comment 51 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jim

Last Name: Smaaladen

Email Address: jim@bryantracing.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jim Smaaladen 1600 E Winston Rd Anaheim, CA 92806

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:29:21

Comment 52 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Johnson Last Name: Xu

Email Address: accounting@taskgloves.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Johnson Xu 15265 Don Julian Rd City Of Industry, CA 91745

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:30:28

Comment 53 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Robert Last Name: Mazawey

Email Address: bobmazawey@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Robert Mazawey 754 Great Bend Dr Diamond Bar, CA 91765

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:31:38

Comment 54 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Phillip Last Name: Hernandez

Email Address: phernandez@encorrsheets.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Phillip Hernandez 5171 E Francis St Ontario, CA 91761

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:32:46

Comment 55 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Sissy Last Name: Funk

Email Address: sissy@polishusa.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Sissy Funk 1830 California Ave Monrovia, CA 91016

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:33:47

Comment 56 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Melissa Last Name: Lomenzo

Email Address: socialmedia@heartofcompassionca.org

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Melissa Lomenzo 600 S Maple Ave Montebello, CA 90640

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:35:02

Comment 57 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Louis Last Name: Smith

Email Address: lxsmith@encorrsheets.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Louis Smith 5171 E Francis St Ontario, CA 91761

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:36:04

Comment 58 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: David Last Name: Hwang

Email Address: ductilic@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, David Hwang 13826 Struikman Rd Cerritos, CA 90703

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:37:02

Comment 59 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Bill Last Name: Borden

Email Address: hopeplastics@la.twcbc.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Bill Borden 5353 Strohm Ave Los Angeles, CA 91601

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:38:07

Comment 60 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Stephen Last Name: Coonen

Email Address: surfaceconstructorsinc@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Stephen Coonen 2287 Ahuacate Rd La Habra Heights, CA 90631

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:39:10

Comment 61 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Eddie Last Name: Wilson

Email Address: eddiewilson1987@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Eddie Wilson 9522 Placer St Rancho Cucamonga, CA 91730

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:40:04

Comment 62 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Lydia Last Name: Rutherford

Email Address: lydia@brandxmetals.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Lydia Rutherford 1641 Sinclair St Anaheim, CA 92806

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:41:08

Comment 63 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Rene Last Name: Tsang

Email Address: ap@landmannwire.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Rene Tsang 430 E Trimble Rd San Jose, CA 95131

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:42:14

Comment 64 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Lisa

Last Name: Van Den Berg

Email Address: lisa@dfindustries.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Lisa Van Den Berg 5071 Lindsay Ct Chino, CA 91710

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:43:07

Comment 65 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Todd Last Name: Greco

Email Address: toddg@plasticmaterials.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Todd Greco 4202 E Brickell St Ontario, CA 91761

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:44:13

Comment 66 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Vinod Last Name: Nanda

Email Address: vinodnanda43@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Vinod Nanda 132 Stagecoach Rd Bell Canyon, CA 91307

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:45:07

Comment 67 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Manuel Last Name: Gamboa

Email Address: manueldelta@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Manuel Gamboa 1436 Packard Dr Apt A Pomona, CA 91766

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:47:39

Comment 68 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: John Last Name: Simpson

Email Address: john@aaapropaneservice.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, John Simpson 2954 Seahorse Ave Ventura, CA 93001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:48:57

Comment 69 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dan Last Name: Chilson

Email Address: danc@classicdist.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Dan Chilson 120 Puente Ave City Of Industry, CA 91746

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:49:58

Comment 70 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ian Last Name: Price

Email Address: ian@carrhill.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Ian Price 8420 Elder Creek Rd Sacramento, CA 95828

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:50:54

Comment 71 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jack Last Name: Rudolf

Email Address: yvonne@jacksbutane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jack Rudolf PO Box 248 Biola, CA 93606

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:52:53

Comment 72 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Clayton Last Name: Manha

Email Address: clayton@jacksbutane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Clayton Manha 15602 W San Joaquin Ave Kerman, CA 93630

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:53:55

Comment 73 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Yvonne Last Name: Rudolf

Email Address: yrudolf59@hotmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Yvonne Rudolf 486 S 3rd St Kerman, CA 93630

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:54:51

Comment 74 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Austin Last Name: Davidson

Email Address: austin.davidson@midstreamenergy.us

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Austin Davidson 9224 Tupman Rd Tupman, CA 93276

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:55:50

Comment 75 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Nancy Last Name: Coop

Email Address: nancyjcoop@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Nancy Coop 34311 Street of the Violet Lantern Dana Point, CA 92629

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:56:49

Comment 76 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: William Last Name: Platz

Email Address: meamdle2@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, William Platz 6515 Kathryn Dr Cambria, CA 93428

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:57:43

Comment 77 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Alexandria Last Name: Wahaus

Email Address: alexandriawahaus@tedjohnsonpropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Alexandria Wahaus 5140 Elton St Baldwin Park, CA 91706

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:58:35

Comment 78 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Armando Last Name: Alfonso

Email Address: armando@southwestprocessors.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Armando Alfonso 4120 Bandini Blvd Vernon, CA 90058

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 17:59:40

Comment 79 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Cynthia Last Name: Belmont

Email Address: cindyb@deltaliquidenergy.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Cynthia Belmont 2225 Iron Stone Loop Templeton, CA 93465

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 18:03:44

Comment 80 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Tim Last Name: Gately

Email Address: tim.gately@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Tim Gately 1574 Waller St San Francisco, CA 94117

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-20 18:05:19

Comment 81 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Will Last Name: Barrett

Email Address: william.barrett@lung.or

Affiliation:

Subject: Comment

Comment:

Please see attached file.

Attachment: 'www.arb.ca.gov/lists/com-attach/87-zeforklifts-UCdWOVE8Aj1WOVQ1.pdf'

Original File Name: williambarrett.pdf

Date and Time Comment Was Submitted: 2023-12-21 09:43:18

Comment 82 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ashley Last Name: Hong

Email Address: ahong@cmta.net

Affiliation: CMTA

Subject: CMTA Comments on the ZEF Regulation

Comment:

CMTA's comment letter on the proposed Zero-emission Forklift (ZEF) regulation is attached for your review and submission. Please do not hesitate to reach out if you have any questions. We appreciate your consideration and look forward to discussing this further.

Happy Holidays!
Best,

Ashley Hong Legislative Analyst

p: 916.498.3328 f: 916.441.5449

a: 1121 L Street, Suite 700, Sacramento, CA 95814

e: ahong@cmta.net w: www.cmta.net

Attachment: 'www.arb.ca.gov/lists/com-attach/88-zeforklifts-AWJQO1AlVmQBWFd6.pdf'

Original File Name: CMTA - ZEF Comments 12.21.23 (FINAL).pdf

Date and Time Comment Was Submitted: 2023-12-21 16:29:44

Comment 83 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Lewis

Email Address: mike@lewisandco.net

Affiliation: Construction Ind. Air Quality Coalition

Subject: Forklift rule 45 day comments

Comment:

Please post these comments from the Construction Industry Air Quality Coalition on the latest version of the zero emission forklift rule.

Attachment: 'www.arb.ca.gov/lists/com-attach/89-zeforklifts-UDNUOwdnVXdSNwhX.docx'

Original File Name: CIAQC Zero Emission Forklift Proposed Regulation Comments .docx

Date and Time Comment Was Submitted: 2023-12-21 17:16:55

Comment 84 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kristel Last Name: Rietesel

Email Address: krietesel@hotmail.com Affiliation: Bay Area Clean Air Coalition

Subject: Support of proposal

Comment:

We support this proposal and ask that the Board pushes for a complete transition to electric forklifts as soon as possible.

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-21 22:06:03

Comment 85 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Paul

Last Name: Rozenberg

Email Address: prozenberg@suburbanpropane.com

Affiliation: Suburban Propane

Subject: Comments on the Proposed Zero-Emission Forklift Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/91-zeforklifts-VCcHdFc0U3UDd1Ay.pdf'

Original File Name: Suburban Propane - Zero-Emission Forklift Regulation Comments.pdf

Date and Time Comment Was Submitted: 2023-12-22 08:03:22

Comment 86 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Manny Last Name: Leon

Email Address: mleon@rebuildca.org Affiliation: California Alliance for Jobs

Subject: Zero-Emission Forklift Rule

Comment:

Please see attached letter for CAJ's comments on the Zero-Emission forklift rule.

Attachment: 'www.arb.ca.gov/lists/com-attach/92-zeforklifts-UDNSNVEiU2IFXFMp.pdf'

Original File Name: CARB_ZEV_Forklift_Letter_12_23.pdf

Date and Time Comment Was Submitted: 2023-12-22 09:02:23

Comment 87 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: cotb@arb.ca.gov Last Name: cotb@arb.ca.gov

Email Address: Non-web submitted comment

Affiliation:

Subject: Comment

Comment:

See attached.

Attachment: 'www.arb.ca.gov/lists/com-attach/93-zeforklifts-UihWNVAyVGhQO1c6.pdf'

Original File Name: zecomment.pdf

Date and Time Comment Was Submitted: 2023-12-22 09:22:21

Comment 88 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Gary Last Name: Cross

Email Address: gcross27103@earthlink.net Affiliation: Industrial Truck Association

Subject: Proposed Zero-Emission Forklift Regulation

Comment:

Please see the attached comments of the Industrial Truck Association

Attachment: 'www.arb.ca.gov/lists/com-attach/94-zeforklifts-AmEGbwZqU21XNAJs.docx'

Original File Name: COMMENTS OF THE INDUSTRIAL TRUCK ASSOCIATIO1.docx

Date and Time Comment Was Submitted: 2023-12-22 09:36:36

Comment 89 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Roger Last Name: Miksad

Email Address: rmiksad@batterycouncil.org Affiliation: Battery Council International (BCI)

Subject: BCI Comments on CA Air Resources Board's Proposed Zero Emission Forklift

Regulation Comment:

Good Morning - Please see the attached comment letter from BCI on the California Air Resources Board's Proposed Zero Emission Forklift Regulation. Thank you

Attachment: 'www.arb.ca.gov/lists/com-attach/95-zeforklifts-UDIAZQFpU18FYFI9.pdf'

Original File Name: BCI Comments on CARB Forklift Rule 2023.12.21.pdf

Date and Time Comment Was Submitted: 2023-12-22 10:56:31

Comment 90 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Tommy Last Name: Goodwin

Email Address: tommy.goodwin@exhibitionsconferencesalliance.org

Affiliation: Exhibitions & Conferences Alliance

Subject: Exhibitions & Conferences Alliance comments

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/96-zeforklifts-W2kCNAAzVzcKIVRl.pdf'

Original File Name: 2023-12-22 -- ECA CARB ZEFR comments.pdf

Date and Time Comment Was Submitted: 2023-12-22 12:33:30

Comment 91 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jacquelyne Last Name: Torreyson

Email Address: jackie@bayareapropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jacquelyne Torreyson 5800 Webb St Riverbank, CA 95367

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 12:41:10

Comment 92 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Shannon Last Name: McWhorter

Email Address: shannon@sequoigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Shannon McWhorter 2750 Hillside Dr Fortuna, CA 95540

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 12:42:23

Comment 93 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Brendan Last Name: Gately

Email Address: brendan@bayareapropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Brendan Gately 8255 San Leandro St Oakland, CA 94621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 12:43:54

Comment 94 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Alejandro Last Name: Rodriguez

Email Address: alexcougar@hotmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Alejandro Rodriguez 27901 Bunting St Hayward, CA 94545

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 12:44:55

Comment 95 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Allen Last Name: Earhart

Email Address: tgsgasman@thorntonsgas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Allen Earhart 4931 Bear River Dr Rio Oso, CA 95674

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 12:51:06

Comment 96 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Brilynn Last Name: Johnson

Email Address: brilynn.johnson@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Brilynn Johnson 508 Butterfield Ct Lincoln, CA 95648

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 12:52:10

Comment 97 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Christine Last Name: Wolfe

Email Address: christinew@cceeb.org

Affiliation: CCEEB

Subject: CCEEB Comments on Draft Zero-Emission Forklift Regulation

Comment:

Please find CCEEB's comments on the Draft Zero-Emission Forklift Regulation attached. Thank you.

Attachment: 'www.arb.ca.gov/lists/com-attach/103-zeforklifts-UGIANldkWDgELAQ1.pdf'

Original File Name: 2023.12.22 CCEEB Comments on 45-Day ZEF Rule.pdf

Date and Time Comment Was Submitted: 2023-12-22 12:59:55

Comment 98 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Gary Last Name: Analian

Email Address: petroilchevron@aol.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Gary Analian 1200 E Mission Blvd Pomona, CA 91766

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 12:53:48

Comment 99 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mark Last Name: Wolfe

Email Address: markw@classicdist.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Mark Wolfe 120 Puente Ave City Of Industry, CA 91746

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:08:49

Comment 100 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Greg Last Name: Billington

Email Address: gregb@deltaliquidenergy.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Greg Billington 600 Marylhurst St Bakersfield, CA 93314

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:09:40

Comment 101 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mark Last Name: Price

Email Address: mprice@campora.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Mark Price 40087 CA-49 Oakhurst, CA 93644

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:11:33

Comment 102 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Todd Last Name: Spicer

Email Address: tspicer@campora.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Todd Spicer 2525 E Mariposa Rd Stockton, CA 95205

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:14:41

Comment 103 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: James Last Name: Angulo

Email Address: jangulo@dassels.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, James Angulo 31 Wright Rd Hollister, CA 95023

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:15:50

Comment 104 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Danny Last Name: Martinez

Email Address: dmartinez@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Danny Martinez 6546 Ave 304 Visalia, CA 93291

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:17:07

Comment 105 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Merle Last Name: Edington

Email Address: medington@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Merle Edington 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:18:07

Comment 106 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Marty Last Name: Huerta

Email Address: martyh@expopropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Marty Huerta 12685 Foothill Blvd Los Angeles, CA 91342

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:19:07

Comment 107 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Sean Last Name: O'Hara

Email Address: seano@expopropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Sean O'Hara 1040 Price St Pomona, CA 91767

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:25:12

Comment 108 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Chris Last Name: Everett

Email Address: ceverett@fallbrookpropanegas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Chris Everett 1561 S Mission Rd Fallbrook, CA 92028

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:26:06

Comment 109 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dennis Last Name: Runnels

Email Address: dennis@sierrapropane.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Dennis Runnels 250 S West Ave Merced, CA 95341

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:27:39

Comment 110 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Hart

Email Address: mikeh@deltaliquidenergy.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michael Hart 1960 Ramada Dr Paso Robles, CA 93446

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:28:33

Comment 111 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Porterville Citrus

Last Name: Inc.

Email Address: ngalusha@portervillecitrus.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Porterville Citrus Inc. 9289 Clemens Rd Terra Bella, CA 93270

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:29:39

Comment 112 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jay Last Name: Stephens

Email Address: jay@teecoproducts.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jay Stephens 7471 Reese Rd Sacramento, CA 95828

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:31:55

Comment 113 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dennis Last Name: Johnston

Email Address: dennis.bluejay@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Dennis Johnston 4300 Flintridge Dr Bakersfield, CA 93306

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:32:52

Comment 114 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Bailey Last Name: McQueary

Email Address: bailey.mcqueary@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Bailey McQueary 798 Havenwood Dr Lincoln, CA 95648

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:33:50

Comment 115 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ashley Last Name: Carucci

Email Address: ashley.carucci@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Ashley Carucci 3200 Taylor Rd Loomis, CA 95650

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:34:56

Comment 116 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ramon Last Name: Mejia

Email Address: lift2@currently.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Ramon Mejia 7979 San Fernando Rd Los Angeles, CA 91352

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:36:35

Comment 117 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: John Last Name: Ward

Email Address: oakhurst@campora.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, John Ward 40087 CA-49 Oakhurst, CA 93644

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:38:06

Comment 118 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jose Last Name: Cardenas

Email Address: jcardenas@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jose Cardenas 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:39:00

Comment 119 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jerry Last Name: Behlen

Email Address: jerry@vmpropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jerry Behlen 20504 99 Frontage Rd Ripon, CA 95366

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:39:56

Comment 120 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Rocky Last Name: Arguijo

Email Address: rocky@windmillpropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Rocky Arguijo 6546 Ave 304 Visalia, CA 93291

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:42:14

Comment 121 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: William Last Name: Bryan

Email Address: bbryan@pjsrebar.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, William Bryan 45500 Fremont Blvd Fremont, CA 94539

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:43:04

Comment 122 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Travis Last Name: Myers

Email Address: tmyers@campora.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Travis Myers 424 N Main St Angels Camp, CA 95222

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:43:54

Comment 123 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jordan Last Name: Terlouw

Email Address: jterlouw@campora.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jordan Terlouw 20221 Paoli Ln Colfax, CA 95713

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:44:58

Comment 124 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Glasky

Email Address: mikeg@pjsrebar.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michael Glasky 2770 Hidden Ln Hayward, CA 94541

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:46:01

Comment 125 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ben Last Name: De Boer

Email Address: bdeboer@campora.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Ben De Boer 6151 Pony Express Trail Pollock Pines, CA 95726

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:46:51

Comment 126 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Anfy Last Name: Fellman

Email Address: afellman@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Andy Fellman 19330 Industrial Dr Sonora, CA 95370

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:47:53

Comment 127 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jesus Last Name: Esparza

Email Address: jesus@cabinet-solutions.us

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jesus Esparza 897 Rosewood Ave Vallejo, CA 94591

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:48:48

Comment 128 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Danny Last Name: Justice

Email Address: djustice@campora.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Denny Justice 5562 Westside Rd Redding, CA 96001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:49:56

Comment 129 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Bauer

Email Address: mbauer@pjsrebar.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michael Bauer 13600 Uvas Rd Morgan Hill, CA 95037

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:50:37

Comment 130 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Pat Last Name: Temples

Email Address: ptemples@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Pat Temples 19330 Industrial Dr Sonora, CA 95370

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:51:35

Comment 131 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mike Last Name: MacLaren

Email Address: mmaclaren@campora.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Mike MacLaren 1766 Main Street Weaverville, CA 96093

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:52:24

Comment 132 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jordan Last Name: Leib

Email Address: jordan@growcold.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jordan Leib 2050 Galvez Ave San Francisco, CA 94124

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:53:22

Comment 133 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Todd Last Name: Wright

Email Address: twright@campora.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Todd Wright 41865 CA-299 Willow Creek, CA 95573

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:54:16

Comment 134 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Fred Last Name: Ayala

Email Address: cavalier1984@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Fred Ayala 8049 Langdon Ave Hesperia, CA 92345

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:56:28

Comment 135 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Adina Last Name: Chapman

Email Address: adinachapman315@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Adina Chapman 8300 San Marcos Rd Atascadero, CA 93422

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:57:21

Comment 136 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Wendy Last Name: Britto

Email Address: wendy.britto@greentechrenewables.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Wendy Britto 31260 Wiegman Rd Hayward, CA 94544

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 13:59:15

Comment 137 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Peifang Last Name: Chang

Email Address: castalyesther@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Peifang Chang 637 Vineland Ave La Puente, CA 91746

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:00:15

Comment 138 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: James Last Name: Yundt

Email Address: jdy@roofmaster.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, James Yundt 750 Monterey Pass Rd Monterey Park, CA 91754

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:01:46

Comment 139 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Paula Last Name: Laney

Email Address: planey@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Paula Laney 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:02:49

Comment 140 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Scott Last Name: Graham

Email Address: sgraham@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Scott Graham 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:03:41

Comment 141 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Travis Last Name: Dunham

Email Address: tdunham@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Travis Dunham 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:04:39

Comment 142 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Laura Last Name: Hawkinson

Email Address: lhawkinson@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Laura Hawkinson 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:05:25

Comment 143 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: David Last Name: Stroupe

Email Address: dstroupe@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, David Stroupe 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:06:11

Comment 144 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Daniel Last Name: Dixon

Email Address: ddixon@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Daniel Dixon 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:07:04

Comment 145 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Gena Last Name: Vasbinder

Email Address: gvasbinder@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Gena Vasbinder 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:08:10

Comment 146 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Brenda Last Name: Griffe

Email Address: bgriffe@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Brenda Griffe 2525 E Mariposa Rd Stockton, CA 95205

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:09:01

Comment 147 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Cathy Last Name: Adams

Email Address: cadams@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Cathy Adams 20504 99 Frontage Rd Ripon, CA 95366

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:09:52

Comment 148 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Chris Last Name: Daly

Email Address: cdaly@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Chris Daly 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:10:42

Comment 149 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Grant Last Name: Culpan

Email Address: grant@maucksheetmetal.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Grant Culpan 755 Independent Rd Oakland, CA 94621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:11:43

Comment 150 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Boyd Last Name: McGathey

Email Address: boyd@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Boyd McGathey 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:12:35

Comment 151 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Tom Last Name: Knauff

Email Address: tknauff@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Tom Knauff 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:15:22

Comment 152 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Enrique Last Name: Silva

Email Address: enriques@expopropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Enrique Silva 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:16:10

Comment 153 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jorge Last Name: Rivas

Email Address: jorger@expopropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jorge Rivas 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:17:01

Comment 154 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Veronica Last Name: Silva

Email Address: veronica@expopropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Veronica Silva 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:17:49

Comment 155 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Fernando Last Name: Gallegos

Email Address: fernando.gallegos@emerson.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Fernando Gallegos 3200 Emerson Way Mckinney, TX 75069

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:19:11

Comment 156 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Yates

Email Address: mikeyates@highhillventures.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michael Yates 22292 Regnart Rd Cupertino, CA 95014

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:20:03

Comment 157 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Restaurant Van

Last Name: Inc.

Email Address: accountant@cookercooler.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Restaurant Van Inc. 1584 Zephyr Ave Hayward, CA 94544

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:20:51

Comment 158 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Steve Last Name: Glovsky

Email Address: steve@sierrapropane.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Steve Glovsky 250 S West Ave Merced, CA 95341

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:25:41

Comment 159 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ryan Last Name: Van Duyn

Email Address: ryan@vmpropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Ryan Van Duyn 20504 99 Frontage Rd Ripon, CA 95366

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:26:40

Comment 160 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Pierluigi Last Name: Giannini

Email Address: pgiannini@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Pierluigi Giannini 656 Telford Ave South San Francisco, CA 94080

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:27:51

Comment 161 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kammui Last Name: Ng

Email Address: pandacarpetusa@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Kammui Ng 2958 Giovana Way Castro Valley, CA 94546

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:28:54

Comment 162 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Cassandra Last Name: Bae

Email Address: cassandrabae82@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Cassandra Bae 3967 E St Sacramento, CA 95819

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:29:51

Comment 163 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: David Last Name: Vance

Email Address: david.vance@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, David Vance PO Box 90952 San Bernardino, CA 92427

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:31:39

Comment 164 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Christina Last Name: Glasgow

Email Address: christina.glasgow@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Christina Glasgow 65 Arizona St Bishop, CA 93514

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:32:29

Comment 165 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michelle Last Name: Mossman

Email Address: michelle.mossman@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michelle Mossman 49499 Pierce Dr Oakhurst, CA 93644

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:33:18

Comment 166 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Rebecca Last Name: Hernandez

Email Address: rebecca.hernandez@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Rebecca Hernandez 8480 Specialty Cir Sacramento, CA 95828

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:34:04

Comment 167 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: David Last Name: Jones

Email Address: dave.jones@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, David Jones 30882 Anderson Cir Menifee, CA 92584

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:34:54

Comment 168 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: William Last Name: Wilt

Email Address: william.wilt@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, William Wilt 2080 S Golden State Blvd Fowler, CA 93625

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:35:46

Comment 169 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Aaron Last Name: Nelson

Email Address: aaron@bayareadieseldelivery.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Aaron Nelson 4070 Castlewood Ct Concord, CA 94518

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:36:46

Comment 170 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: John Last Name: Nadolski

Email Address: dandjecho@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, John Nadolski 4921 N Brightview Dr Covina, CA 91722

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:37:50

Comment 171 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dalila Last Name: Parra

Email Address: dalila.parra@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Dalila Parra 126 Farland Pl Escondido, CA 92027

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:39:13

Comment 172 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Nicolas Last Name: Rivera

Email Address: nrivera@advantagers.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Nicolas Rivera 3201 Liberty Square Pkwy Turlock, CA 95380

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:40:24

Comment 173 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Koury Last Name: Ensley

Email Address: kensley0126@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Koury Ensley 16874 Century St Moreno Valley, CA 92551

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:41:25

Comment 174 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Alex Last Name: Wu

Email Address: alexwu@superlinkusa.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Alex Wu 888 92nd Ave Oakland, CA 94603

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:42:18

Comment 175 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Daniel Last Name: Budd

Email Address: dan.budd@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Daniel Budd 8316 52nd St Ct W Tacoma, WA 98467

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:43:39

Comment 176 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Thomas Last Name: Daniels

Email Address: tomd@aepexenergy.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Thomas Daniels 103 Via Robles Paso Robles, CA 93446

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 14:44:34

Comment 177 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Alison Last Name: Hahm

Email Address: ahahm@nrdc.org Affiliation: THE Impact Project

Subject: Comments on Proposed Zero-Emission Forklifts Regulation

Comment:

Dear Mr. Roderick and Mr. Chen,

Please find attached a comment letter on the proposed Zero-Emission Forklifts regulation, submitted on behalf of the following organizations:

Center for Community Action and Environmental Justice Coalition for Clean Air
Earthjustice
East Yard Communities for Environmental Justice
Natural Resources Defense Council
Pacific Environment
San Pedro & Peninsula Homeowners Coalition
Sierra Club
West Long Beach Association

Thank you for your consideration and please let us know if you have any questions.

Sincerely, Alison

Attachment: 'www.arb.ca.gov/lists/com-attach/183-zeforklifts-VWdcaQMsAmABNQcp.pdf'

Original File Name: 23.12.22 Impact Project Coalition_ZE Forklifts Comments_final.pdf

Date and Time Comment Was Submitted: 2023-12-22 18:40:10

Comment 178 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: John Last Name: Casper

Email Address: jcasper@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, John Casper 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:11:20

Comment 179 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kathy Last Name: Johnson

Email Address: kjohnson@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Kathy Johnson 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:13:03

Comment 180 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jim Last Name: Rushing

Email Address: jrushing@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jim Rushing 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:14:05

Comment 181 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Russ Last Name: Head

Email Address: rhead@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Russ Head 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:15:28

Comment 182 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Josh Last Name: Perceful

Email Address: jperceful@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Josh Perceful 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:20:13

Comment 183 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Teri Last Name: Larson

Email Address: tlarson@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Teri Larson 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:27:39

Comment 184 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Casandra Last Name: Russo

Email Address: casandra.russo@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Casandra Russo 1288 Cimmeron Way Lincoln, CA 95648

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:28:18

Comment 185 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jim Last Name: Jones

Email Address: jim@topsidemarine.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jim Jones 900 Golden Wheel Park Dr San Jose, CA 95112

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:30:26

Comment 186 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mike Last Name: Senoski

Email Address: msenoski@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Mike Senoski 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:33:14

Comment 187 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Eric Last Name: McNeily

Email Address: emcneily@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Eric McNeily 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:34:26

Comment 188 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Chase Last Name: Frederick

Email Address: cfrederick@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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Regards, Chase Frederick 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:35:17

Comment 189 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kris Last Name: Osika

Email Address: kosika@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Kris Osika 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:36:17

Comment 190 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Alan

Last Name: Copenhaver

Email Address: acopenhaver@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Alan Copenhaver 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:37:11

Comment 191 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Don Last Name: Wilk

Email Address: dwilk@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Don Wilk 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:38:07

Comment 192 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Fahad Last Name: Telchi

Email Address: ftelchi@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Fahad Telchi 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:38:56

Comment 193 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kenya Last Name: Alexander

Email Address: kalexander@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Kenya Alexander 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:39:43

Comment 194 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Tanvir Last Name: Siddiqui

Email Address: tsiddiqui@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Tanvir Siddiqui 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:41:08

Comment 195 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Josh Last Name: Gibson

Email Address: jgibson@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Josh Gibson 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:41:45

Comment 196 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Brenda Last Name: Hernandez

Email Address: bhernandez@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Brenda Hernandez 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:42:43

Comment 197 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Lynn Last Name: Curto

Email Address: lcurto@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Lynn Curto 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:43:54

Comment 198 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jennifer Last Name: Rivas

Email Address: jrivas@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jennifer Rivas 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:44:58

Comment 199 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Gail Last Name: Lambert

Email Address: glambert@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Gail Lambert 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:45:46

Comment 200 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mary Last Name: Brown

Email Address: mbrown@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Mary Brown 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:46:28

Comment 201 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mary Last Name: Seklecki

Email Address: mseklecki@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Mary Seklecki 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:47:15

Comment 202 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Desiree Last Name: Aranda

Email Address: daranda@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Desiree Aranda 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:48:19

Comment 203 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Marisa Last Name: Robertson

Email Address: mrobertson@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Marisa Robertson 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:49:11

Comment 204 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Atearia Last Name: Caldwell

Email Address: acaldwell@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Atearia Caldwell 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:49:59

Comment 205 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dennis Last Name: Cayaba

Email Address: dcayaba@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Dennis Cayaba 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:51:11

Comment 206 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Anthony Last Name: Jaggers

Email Address: ajaggers@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Anthony Jaggers 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:51:59

Comment 207 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Andrew Last Name: Fahrenbach

Email Address: afahrenback@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Andrew Fahrenbach 638 E Gage Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:52:48

Comment 208 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jeremy Last Name: Bidwell

Email Address: jbidwell@edplp.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jeremy Bidwell 1484 Pinon Ave CA 95341

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:53:47

Comment 209 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Diana Last Name: Dominguez

Email Address: baytechins@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Diana Dominguez 1515 Day Ave San Mateo, CA 94403

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:57:14

Comment 210 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dario Last Name: Dominguez

Email Address: darioriosness@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Dario Dominguez 1515 Day Ave San Mateo, CA 94403

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:58:20

Comment 211 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Rajiv Last Name: Jain

Email Address: rjain@btw1.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Rajiv Jain 29523 Holyoke Ave Hayward, CA 94544

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 20:59:28

Comment 212 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Stephen Last Name: Evans

Email Address: swenceslaoe@hotmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Stephen Evans 1110 Golden Way Los Altos, CA 94024

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:00:26

Comment 213 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jeff

Last Name: Silversmith

Email Address: jsilversmith@ksplastic.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jeff Silversmith 2116 Farallon Dr San Leandro, CA 94577

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:01:20

Comment 214 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kevin Last Name: Ahern

Email Address: kahern@ksplastic.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Kevin Ahern 2116 Farallon Dr San Leandro, CA 94577

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:02:19

Comment 215 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Eric Last Name: McAlister

Email Address: emcalister@jswest.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Eric McAlister 501 9th St Modesto, CA 95354

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:03:08

Comment 216 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: David Last Name: Spinney

Email Address: dave@allstatepropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, David Spinney 21520 Yorba Linda Blvd Yorba Linda, CA 92887

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:03:56

Comment 217 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Paul Last Name: Dinsdale

Email Address: pdinsdale@wrmeadows.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Paul Dinsdale 652 Indiana St Benicia, CA 94510

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:05:13

Comment 218 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Melissa Last Name: Newland

Email Address: melissa.newland@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Melissa Newland 985 Sun City Ln Ste 109 Lincoln, CA 95648

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:06:17

Comment 219 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Anthony Last Name: Pedotto

Email Address: pedotto@rocketmail.con

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Anthony Pedotto 27623 Jefferson Ave Temecula, CA 92590

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:07:15

Comment 220 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Woodside

Email Address: woody@westernpropane.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michael Woodside 1044 Cinnabar Ct Santa Maria, CA 93455

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:08:23

Comment 221 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Flavio Last Name: Arce

Email Address: sunlitemetals@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Flavio Arce 2210 E 85th St Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:09:15

Comment 222 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Larissa Last Name: Crittenden

Email Address: larissa.crittenden@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Larissa Crittenden 1345 Incline Dr Lincoln, CA 95648

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:10:16

Comment 223 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Patrick Last Name: Harvey

Email Address: pharvey.fsl@sbcglobal.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Patrick Harvey 6899 Smith Ave Newark, CA 94560

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:13:04

Comment 224 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Cody Last Name: Krakowski

Email Address: codysilva172@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Cody Krakowski PO Box 335 Point Arena, CA 95468

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:14:06

Comment 225 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Steve Last Name: Moore

Email Address: stevemoorepropane@outlook.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Steve Moore 32565b Golden Lantern Dana Point, CA 92629

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:15:10

Comment 226 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Justin Last Name: Tran

Email Address: justintran82@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Justin Tran 114 Adeline St Oakland, CA 94607

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:16:29

Comment 227 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dr. Last Name: Wong

Email Address: docwong@mac.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Dr Wong 6 Quail Ct Woodside, CA 94062

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:17:14

Comment 228 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mark Last Name: Leitman

Email Address: mark.leitman@icloud.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Mark Leitman 5980 Vista Ridge Santa Rosa, CA 95409

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:18:03

Comment 229 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: David Last Name: Murphy

Email Address: david.murphy@amerigas.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, David Murphy 113 Duranta St Roseville, CA 95678

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:19:01

Comment 230 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Felipe Last Name: Gutierrez

Email Address: abm90502@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Felipe Gutierrez 23116 Normandie Ave Torrance, CA 90502

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:19:57

Comment 231 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Yamel Last Name: Monjaraz

Email Address: lemay72@aol.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Yamel Monjaraz 555 E Tennis Ct Ln San Bernardino, CA 92408

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:20:43

Comment 232 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Armando Last Name: Silva

Email Address: aa@armandoaluminum.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Armando Silva 1761 Massachusetts Ave Riverside, CA 92507

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:21:32

Comment 233 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Alex Last Name: Loyola

Email Address: gm@apexpalletsinc.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Alex Loyola 1006 S East End Ave Pomona, CA 91766

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:22:41

Comment 234 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: William Last Name: Hayes

Email Address: william@westernstatesroofing.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, William Hayes 18605 Parthenia St Los Angeles, CA 91324

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:23:34

Comment 235 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Sabrina Last Name: Garcia

Email Address: sabrina@westernstatesroofing.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Sabrina Garcia 18605 Parthenia St Los Angeles, CA 91324

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:24:26

Comment 236 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Samuel Last Name: Wagya

Email Address: p27global@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Samuel Wagya 4900 E Washington Blvd Commerce, CA 90040

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:25:13

Comment 237 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Eric

Last Name: Van Der Heyden

Email Address: eric@royalcabinets.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Eric Van Der Heyden 1299 East Phillips Blvd CA 91763

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:26:05

Comment 238 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Maria Last Name: Vargas

Email Address: maria@anyabrothers.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Maria Vargas 3130 Leonis Blvd Vernon, CA 90058

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:27:42

Comment 239 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Chris Last Name: Roy

Email Address: ocfarmsupply@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Chris Roy 1826 W Chapman Ave Orange, CA 92868

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:28:24

Comment 240 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Steve Last Name: Wright

Email Address: stevewnjb@aol.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Steve Wright 8422 Standustrial St Stanton, CA 90680

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:29:04

Comment 241 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Yvette Last Name: Garcia

Email Address: yvette@deluxebuildingproducts.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Yvette Garcia 12559 Vivienda Ave Grand Terrace, CA 92313

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:32:21

Comment 242 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Teri Last Name: Lucero

Email Address: tlucero@centerlinelogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Teri Lucero 321 A Ave Alameda, CA 94501

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:33:43

Comment 243 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Gregory Last Name: Leighton

Email Address: greg@cgplastics.net

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Gregory Leighton 12729 Foothill Blvd Los Angeles, CA 91342

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:35:37

Comment 244 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Robert Last Name: Whitley

Email Address: bob@venturahighwayinc.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Robert Whitley 15313 Santa Gertrudes Ave La Mirada, CA 90638

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:36:49

Comment 245 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Eric Last Name: Li

Email Address: info@famoustargetla.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Eric Li 455 S 6th Ave City Of Industry, CA 91746

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:38:13

Comment 246 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jeri Last Name: Fisher

Email Address: 7603hazeltine@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jeri Fisher 7603 Hazeltine Ave Los Angeles, CA 91405

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:39:45

Comment 247 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Thomas Last Name: Li

Email Address: thomasli@hensunexpress.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Thomas Li 912 W Hillcrest Blvd Inglewood, CA 90301

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:40:29

Comment 248 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Oliver Last Name: Fleck

Email Address: oliverfleck@bisonengineeringco.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Oliver Fleck 15535 Texaco Ave Paramount, CA 90723

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:41:20

Comment 249 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Roberto Last Name: Robaina

Email Address: roberto@robainaindustries.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Roberto Robaina 18000 Studebaker Rd Cerritos, CA 90703

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:42:17

Comment 250 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Richard Last Name: Qin

Email Address: richard@apolloathletics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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are utilized. When propane is used as the fuel of choice for ICE forklifts, ICE forklift fuel costs go down by approximately 55%. Cumulative fuel savings when using propane add up to \$1.87 billion, while cumulative fuel savings when using gasoline amount to \$5.25 billion. Utilizing propane as the main source of fuel for ICE forklifts provides a more accurate depiction of ICE forklift fuel costs as the majority of forklifts are propane-powered. Considering that the fuel savings generated by CARB make up approximately 47% (\$8.2 billion) of CARB's cumulative regulation benefits, transparency on their fuel cost methodology is essential.

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Richard Qin 1428 W Central Park Ave S Anaheim, CA 92802

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:43:23

Comment 251 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Christopher

Last Name: Park

Email Address: chris@onestoprecyclingla.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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Propane-powered forklifts are the more affordable fuel option: ICE forklift fuel costs decrease substantially when propane fuel costs

are utilized. When propane is used as the fuel of choice for ICE forklifts, ICE forklift fuel costs go down by approximately 55%. Cumulative fuel savings when using propane add up to \$1.87 billion, while cumulative fuel savings when using gasoline amount to \$5.25 billion. Utilizing propane as the main source of fuel for ICE forklifts provides a more accurate depiction of ICE forklift fuel costs as the majority of forklifts are propane-powered. Considering that the fuel savings generated by CARB make up approximately 47% (\$8.2 billion) of CARB's cumulative regulation benefits, transparency on their fuel cost methodology is essential.

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Christopher Park 7100 Stanford Ave Los Angeles, CA 90001

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-22 21:44:09

Comment 252 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Caprio

Email Address: mcaprio@republicservices.com

Affiliation: Republic Services

Subject: Proposed Zero-Emission Forklift Regulation

Comment:

To whom it may concern,

Thank you for including our company in the 45 day public comment process for the Zero-Emission Forklift Regulation. We appreciate the approach taken by staff in balancing the time needed to transition from LSI equipment to ZE options.

After review of the Proposed Regulation our comments primarily center upon the exemption of diesel powered units as noted in the ISOR and specifically on Page 4 of the June 27, 2024 Notice of Public Hearing documents. The last sentence of the 3rd full paragraph on this page states:

"Certain types of forklifts, such as rough-terrain forklifts and diesel forklifts, would not be addressed by the Proposed Regulations".

While we may have missed the inclusion of a reference to this exclusion in our review of the Proposed Regulations, we didn't see a specific notation of diesel forklifts being excluded from the Proposed Regulation. This may be inferred as the Proposed Regulation specifically addresses spark ignited forklifts and diesel forklifts are compression ignited.

This distinction is made clear in the second full paragraph on Page 4 of the aforementioned Notice of Public Hearing. However, we believe it would be helpful for the Final Regulation to have a clear reference regarding the exclusion of diesel forklifts. Additionally, the Proposed Regulation references reporting requirements for diesel powered forklifts as well as the need to justify the addition of diesel fueled forklifts in Section 3008(j).

In summary, due to the items noted above we believe that some additional thought be placed into whether diesel fueled forklifts are fully exempt from the Proposed Rule or conditionally exempt if no other ZEV options are available. If the latter is true and/or reporting is required for newly added diesel powered forklifts, as inferred in Section 3008(j), there should be a clear statement in the supporting documents (ISOR, other discussion documents and Notice of Public Hearing) of their inclusion under specific circumstances.

Lastly, Workshops put forth by CARB staff have been very helpful on this and many other proposed rule changes. Given the extent of

comments received and some of our comments noted herein, we believe additional Workshop(s) on this Proposed Regulation (before and/or after it's adoption) would be helpful to address any points requiring further clarification.

We appreciate the consideration of our comments and look forward to participating in the rulemaking process as it progresses.

Regards,

Michael Caprio Director of Government Affairs

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-25 13:40:57

Comment 253 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Matthew Last Name: Moravek

Email Address: mmoravek@mcclone.net Affiliation: McClone Construction

Subject: 2023.12 Appendix A-1 Comments

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/259-zeforklifts-ATMCNFJhUjIAKFJj.pdf'

Original File Name: 2023.12. Letter_CARB.pdf

Date and Time Comment Was Submitted: 2023-12-25 18:58:19

Comment 254 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Spencer Last Name: Adams

Email Address: spencer.adams@hyster-yale.com

Affiliation: Hyster-Yale Group, Inc.

Subject: Hyster-Yale Comments to CARB forklift ZEV Proposed Regulations

Comment:

Dear Chair Randolph and CARB Board Members:

Attached please find Hyster-Yale Group, Inc.'s comments to CARB's proposed Zero-Emission Forklift Regulations. Hyster-Yale Group, Inc. has worked collaboratively with CARB throughout this rulemaking process, and respectfully requests that CARB take into account and adjust the Proposed Regulation to both these direct comments from Hyster-Yale Group, Inc. and those separately submitted by the Industrial Truck Association.

Sincerely,

Spencer Adams Hyster-Yale Group, Inc.

Attachment: 'www.arb.ca.gov/lists/com-attach/260-zeforklifts-AmoGeVcxAw8FYFM8.pdf'

Original File Name: HYG Comments to CARB forklift ZEV regs Dec 26 2023.pdf

Date and Time Comment Was Submitted: 2023-12-26 08:46:06

Comment 255 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: David Last Name: Cox

Email Address: dave@meeder.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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are utilized. When propane is used as the fuel of choice for ICE forklifts, ICE forklift fuel costs go down by approximately 55%. Cumulative fuel savings when using propane add up to \$1.87 billion, while cumulative fuel savings when using gasoline amount to \$5.25 billion. Utilizing propane as the main source of fuel for ICE forklifts provides a more accurate depiction of ICE forklift fuel costs as the majority of forklifts are propane-powered. Considering that the fuel savings generated by CARB make up approximately 47% (\$8.2 billion) of CARB's cumulative regulation benefits, transparency on their fuel cost methodology is essential.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, David Cox 3495 S Maple Ave Fresno, CA 93725

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 09:14:09

Comment 256 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Shane Last Name: Guenther

Email Address: sugarshayn@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Propane-powered forklifts are the more affordable fuel option: ICE forklift fuel costs decrease substantially when propane fuel costs

are utilized. When propane is used as the fuel of choice for ICE forklifts, ICE forklift fuel costs go down by approximately 55%. Cumulative fuel savings when using propane add up to \$1.87 billion, while cumulative fuel savings when using gasoline amount to \$5.25 billion. Utilizing propane as the main source of fuel for ICE forklifts provides a more accurate depiction of ICE forklift fuel costs as the majority of forklifts are propane-powered. Considering that the fuel savings generated by CARB make up approximately 47% (\$8.2 billion) of CARB's cumulative regulation benefits, transparency on their fuel cost methodology is essential.

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Shane Guenther 6000 10th St Spc 11 Sheridan, CA 95681

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 09:15:11

Comment 257 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Gary Last Name: Cross

Email Address: gcross27103@earthlink.net Affiliation: Industrial Truck Association

Subject: Proposed Zero-Emission Forklift Regulation

Comment:

I am submitting these comments from the Industrial Truck Association again, following my initial submission on Dec. 22, because they do not appear in the log of comments submitted and there is no answer at the Clerk's office.

Attachment: 'www.arb.ca.gov/lists/com-attach/263-zeforklifts-AGNdNAZqUmwHZAdp.docx'

Original File Name: COMMENTS OF THE INDUSTRIAL TRUCK ASSOCIATIO1.docx

Date and Time Comment Was Submitted: 2023-12-26 10:35:12

Comment 258 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Roxana Last Name: Ramirez

Email Address: rramirez@mdwh2o.com Affiliation: Metropolitan Water District of SC

Subject: MWD's Comments on the Proposed ZEF Regulation

Comment:

Please find attached MWD's comment letter on the 45-day rulemaking draft for the Proposed ZEF Regulation.

Best Regards,

Roxana Ramirez
Environmental Specialist
Water Systems Operations Group
Metropolitan Water District of Southern California
700 North Alameda Street, US8-205
Los Angeles, CA 90012
Office: 213-217-6407

Attachment: 'www.arb.ca.gov/lists/com-attach/264-zeforklifts-VzoAcQdiBAhXMII9.pdf'

Original File Name: MWD Comments on ZE Forklift 45_Day Package_Signed.pdf

Date and Time Comment Was Submitted: 2023-12-26 11:16:28

Comment 259 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Priscilla Last Name: Rodriguez

Email Address: priscilla@agprocessors.org

Affiliation:

Subject: CARB ZEV Forklift Rule_Ag Coalition Comments

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/265-zeforklifts-AWJVMlckWWgBWFIo.pdf'

Original File Name: CARB ZEV Forklift Rule Ag Coalition Comments_Final 2_12-18-23.pdf

Date and Time Comment Was Submitted: 2023-12-26 12:33:57

Comment 260 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dennis Last Name: Runnels

Email Address: dennis@sierrapropane.net

Affiliation: Windmill Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/266-zeforklifts-BmVTNAZ1AjNRCFU5.pdf'

Original File Name: CARB Letter Windmill Dennis Runnels.pdf

Date and Time Comment Was Submitted: 2023-12-26 13:10:49

Comment 261 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Patrick Last Name: Temples

Email Address: ptemples@edplp.net

Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/267-zeforklifts-UTIHYANwVmcKUwNv.docx'

Original File Name: CARB Letter Campora Patrick Temples.docx

Date and Time Comment Was Submitted: 2023-12-26 13:39:08

Comment 262 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Andy Last Name: Fellman

Email Address: afellman@edplp.net Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/268-zeforklifts-UTIBZgNwU2IHXgll.pdf'

Original File Name: CARB Letter Campora Andy Fellman.pdf

Date and Time Comment Was Submitted: 2023-12-26 13:59:43

Comment 263 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Enrique Last Name: Silva

Email Address: enriques@expopropane.com

Affiliation: Expo Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/269-zeforklifts-UDNSNVMgWWgFXANv.pdf'

Original File Name: CARB Letter Expo Enrique 1.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:24:28

Comment 264 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Daniel Last Name: Fisher

Email Address: dfisher@aednet.org

Affiliation: Associated Equipment Distributors

Subject: ZEF Regulation Forklift Comments--Associated Equipment Distributors

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/270-zeforklifts-UjMGZVw5AH4LbgFg.pdf'

Original File Name: AED-CARBForkliftComments.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:34:59

Comment 265 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Veronica Last Name: Silva

Email Address: veronica@expopropane.com

Affiliation: Expo Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/271-zeforklifts-UTJQNwd0AjNRCAVp.pdf'

Original File Name: CARB Letter Expo Veronica Silva.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:24:27

Comment 266 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jorge Last Name: Rivas

Email Address: jorger@expopropane.com

Affiliation: Expo Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/272-zeforklifts-AWJSNQNwV2YFXARo.pdf'

Original File Name: CARB Letter Expo Jorge Rivas.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:24:25

Comment 267 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Marty Last Name: Huerta

Email Address: martyh@expopropane.com

Affiliation: Expo Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/273-zeforklifts-VjUCZVwvVWQHXghk.pdf'

Original File Name: CARB Letter Expo Marty Huerta.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:24:25

Comment 268 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Sean Last Name: O'Hara

Email Address: seano@expopropane.com

Affiliation: Expo Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/274-zeforklifts-BmUFYgBzUmMCWwll.pdf'

Original File Name: CARB Letter Expo Sean Ohara.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:21:11

Comment 269 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Danny Last Name: Martinez

Email Address: dmartinez@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/275-zeforklifts-AWJTNFAjBzZQCVI+.pdf'

Original File Name: CARB Letter Expo EDP Danny Martinez.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:21

Comment 270 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Merle Last Name: Edington

Email Address: medington@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/276-zeforklifts-VzRWMVckV2YCW1c7.pdf'

Original File Name: CARB Letter Expo EDP Merle Edington.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:20

Comment 271 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jim Last Name: Rushing

Email Address: jrushing@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/277-zeforklifts-AGMHYFIhUGEHXgdr.pdf'

Original File Name: CARB Letter Expo EDP Jim Rushing.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:19

Comment 272 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jose Last Name: Cardenas

Email Address: jcardenas@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/278-zeforklifts-WjlXMAFyV2YGXwdr.pdf'

Original File Name: CARB Letter Expo EDP Jose Cardenas.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:18

Comment 273 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Chris Last Name: Daly

Email Address: cdaly@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/279-zeforklifts-AGMGYQZ1UGEHXgBs.pdf'

Original File Name: CARB Letter Expo EDP Chris Daly.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:17

Comment 274 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Boyd Last Name: McGathey

Email Address: boyd@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/280-zeforklifts-AWJXMFYlWWhWDwRo.pdf'

Original File Name: CARB Letter Expo EDP Boyd McGathey.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:16

Comment 275 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Tom Last Name: Knauff

Email Address: tknauff@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: "

Original File Name: CARB Letter Expo EDP Tom Knauff.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:14

Comment 276 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kathy Last Name: Johnson

Email Address: kjohnson@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/282-zeforklifts-UjFRNgFyUWBRCFQ4.pdf'

Original File Name: CARB Letter Expo EDP Kathy Johnson.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:12

Comment 277 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: John Last Name: Casper

Email Address: jcasper@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/283-zeforklifts-BmUBZlIhVmdVDANv.pdf'

Original File Name: CARB Letter Expo EDP John Casper.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:11

Comment 278 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: David Last Name: Stroupe

Email Address: dstroupe@edplp.net Affiliation: Expo Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/284-zeforklifts-UDMCZQd0U2JWDwBs.pdf'

Original File Name: CARB Letter Expo EDP David Stroupe.pdf

Date and Time Comment Was Submitted: 2023-12-26 14:46:08

Comment 279 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Travis Last Name: Myers

Email Address: tmyers@campora.com Affiliation: Ebbetts Pass Gas Service

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/285-zeforklifts-UzBXMF0uUmMAWQBs.pdf'

Original File Name: CARB Letter Ebetts Travis Myers.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:10:21

Comment 280 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jerry Last Name: Behlen

Email Address: jerry@vmpropane.com Affiliation: Van Unen Miersma Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/286-zeforklifts-UjEFYlEiU2IAWVc7.pdf'

Original File Name: CARB Letter VMP Jerry Behlen.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:10:19

Comment 281 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Cathy Last Name: Adams

Email Address: cadams@edplp.net

Affiliation: Van Unen Miersma Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/287-zeforklifts-WzhdOgR3BTRSCwll.pdf'

Original File Name: CARB Letter VMP EDP Cathy Adams.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:10:19

Comment 282 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Dennis Last Name: Runnels

Email Address: dennis@sierrapropane.net

Affiliation: Sierra Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/288-zeforklifts-WzgGYVYlUGEAWVI+.pdf'

Original File Name: CARB Letter Sierra Dennis Runnels.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:10:18

Comment 283 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Chris Last Name: Everett

Email Address: ceverett@fallbrookpropanegas.com

Affiliation: Fallbrook Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/289-zeforklifts-AGMBZIIhVWRRCABs.pdf'

Original File Name: CARB Letter Fallbrook Chris Everett.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:10:17

Comment 284 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Todd Last Name: Wright

Email Address: twright@campora.com

Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/290-zeforklifts-UjEBZl0uAjMAWQhk.pdf'

Original File Name: CARB Letter Campora Todd Wright.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:10:16

Comment 285 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mark Last Name: Price

Email Address: mprice@campora.com

Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/291-zeforklifts-BWZRNIUmAjMEXQFt.pdf'

Original File Name: CARB Letter Campora Mark Price.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:10:15

Comment 286 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Todd Last Name: Spicer

Email Address: tspicer@campora.com

Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: "

Original File Name: CARB Letter Campora Todd Spicer.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:10:14

Comment 287 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Travis Last Name: Myers

Email Address: tmyers@campora.com

Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/293-zeforklifts-AWJRNlYlVWQEXQZq.pdf'

Original File Name: CARB Letter Campora Travis Myers 1.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:31:22

Comment 288 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jordan Last Name: Terlouw

Email Address: jterlouw@campora.com

Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/294-zeforklifts-BWZUM1EiBzZVDFA8.pdf'

Original File Name: CARB Letter Campora Jordan Terlouw.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:31:21

Comment 289 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ben Last Name: de Boer

Email Address: bdeboer@campora.com

Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/295-zeforklifts-UDMBZIYIUWBQCQFt.pdf'

Original File Name: CARB Letter Campora Ben de Boer.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:31:20

Comment 290 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Denny Last Name: Justice

Email Address: djustice@campora.com

Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/296-zeforklifts-UDNSNQFyVmcGXwJu.pdf'

Original File Name: CARB Letter Campora Denny Justice.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:31:19

Comment 291 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mike Last Name: Maclaren

Email Address: mmaclaren@campora.com

Affiliation: Campora Propane

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/297-zeforklifts-B2QBZlckVGVRCAhk.pdf'

Original File Name: CARB Letter Campora Mike Maclaren.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:31:19

Comment 292 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Brenda Last Name: Griffie

Email Address: bgriffie@edplp.net Affiliation: Campora Propane / EDP

Subject: Zero-Emission Forklifts - Proposed Regulation

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/298-zeforklifts-UzBdOgNwU2JWD1Q4.pdf'

Original File Name: CARB Letter Campora EDP Brenda Griffie.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:31:17

Comment 293 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jon Last Name: Switalski

Email Address: jon@rebuildsocal.org Affiliation: Rebuild SoCal Partnership

Subject: Comments on the proposed Zero-Emission Forklift Regulation

Comment:

Attached are the comments from the Rebuild SoCal Partnership regarding the proposed Zero-Emission Forklift regulation.

Attachment: 'www.arb.ca.gov/lists/com-attach/299-zeforklifts-UGIFM1VmAmJQCQFn.pdf'

Original File Name: 2023 Forklift Regulation Comments.pdf

Date and Time Comment Was Submitted: 2023-12-26 15:45:27

Comment 294 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Krysta Last Name: Wanner

Email Address: krysta@westernpga.org

Affiliation: Western Propane Gas Association

Subject: Zero-Emission Forklift Regulation

Comment:

See attached.

Attachment: 'www.arb.ca.gov/lists/com-attach/300-zeforklifts-VixTMFAOVWABaAR2.pdf'

Original File Name: ZE Forklift Letter December 2023 Final.pdf

Date and Time Comment Was Submitted: 2023-12-26 16:20:12

Comment 295 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Walter Last Name: Chang

Email Address: waltminc@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Walter Chang 1788 Rogers Ave San Jose, CA 95112

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:11:05

Comment 296 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Antonio Last Name: Montelongo

Email Address: miatrading1@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Antonio Montelongo 2034 E 48th St Vernon, CA 90058

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:11:41

Comment 297 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Salvador Last Name: Hernandez

Email Address: sal@dnsexportpacking.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Salvador Hernandez 12961 Sunnyside Pl Santa Fe Springs, CA 90670

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:13:07

Comment 298 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Ryan Last Name: Donovan

Email Address: rdonovan@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Ryan Donovan 5650 Dolly Ave Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:14:12

Comment 299 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Eric Last Name: Monson

Email Address: emonson@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Eric Monson 5650 Dolly Ave WA 98026

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:15:06

Comment 300 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Eileen Last Name: Conrique

Email Address: econrique@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Eileen Conrique 7102 Cate Dr Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:16:12

Comment 301 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jesse Last Name: Sevilla

Email Address: jsevilla@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jesse Sevilla 7102 Cate Dr Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:17:20

Comment 302 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michelle Last Name: Miller

Email Address: mmiller@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michelle Miller 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:18:25

Comment 303 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Nicole Last Name: Koerner

Email Address: nkoerner@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Nicole Koerner 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:19:29

Comment 304 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Angelina Last Name: Martinez

Email Address: amartinez@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Angelina Martinez 6570 Altura Blvd CA 90638

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:20:33

Comment 305 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Maytee Last Name: Cortes

Email Address: mcortes@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Maytee Cortes 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:21:22

Comment 306 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Edgardo Last Name: Mendoza

Email Address: emendoza@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Edgardo Mendoza 5650 Dolly Ave CA 92805

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:22:10

Comment 307 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Briana Last Name: Radilla

Email Address: bradilla@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Briana Radilla 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:23:03

Comment 308 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Brian Last Name: Prado

Email Address: bprado@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Brian Prado 5650 Dolly Ave Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:23:52

Comment 309 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: John Last Name: Conrique

Email Address: jconrique@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, John Conrique 5650 Dolly Ave Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:25:03

Comment 310 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Edmund Last Name: Domingo

Email Address: edomingo@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Edmund Domingo 5650 Dolly Ave Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:25:34

Comment 311 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michelle Last Name: King

Email Address: michelle.king17@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michelle King 13502 Tracy St Apt 2 Baldwin Park, CA 91706

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:26:23

Comment 312 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Arline Last Name: Ramos

Email Address: aramos@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Arline Ramos 5650 Dolly Ave Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:27:09

Comment 313 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jaime Last Name: Michel

Email Address: jmichel@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jaime Michel 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:27:49

Comment 314 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Efren Last Name: Lira

Email Address: elira@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Efren Lira 11265 Beech Ave Fontana, CA 92337

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:28:49

Comment 315 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jose Last Name: Soto

Email Address: jsoto@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jose Soto 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:29:31

Comment 316 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Daniel Last Name: Pla

Email Address: dpla@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Daniel Pla 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:30:13

Comment 317 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Nicolas Last Name: Sendis

Email Address: nsendis@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Nicolas Sendis 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:30:56

Comment 318 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Aron Last Name: Gregoire

Email Address: agregoire@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Aron Gregoire 6872 Ramona Ave Rancho Cucamonga, CA 91701

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:31:44

Comment 319 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Javier Last Name: Sotelo

Email Address: jsotelo@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Javier Sotelo 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:32:26

Comment 320 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: John Last Name: Welch

Email Address: j.welch50@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, John Welch 1913 N Sundown Ln Anaheim, CA 92807

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:33:06

Comment 321 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Jerico Last Name: Jones

Email Address: jjones@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Jerico Jones 6570 Altura Blvd Buena Park, CA 90620

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:33:46

Comment 322 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Gabriel Last Name: Rodriguez

Email Address: grodriguez@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Gabriel Rodriguez 5650 Dolly Ave Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:34:27

Comment 323 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kevin Last Name: Monson

Email Address: thurmy7@yahoo.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Kevin Monson 350 Del Cerro Pl Fullerton, CA 92835

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:35:37

Comment 324 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Helder Last Name: Faria

Email Address: hfaria@dassels.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Helder Faria 31 Wright Rd Hollister, CA 95023

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:36:21

Comment 325 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Bryan Last Name: Rogers

Email Address: brogers@dassels.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Bryan Rogers 31 Wright Rd Hollister, CA 95023

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:37:05

Comment 326 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Michael Last Name: Graham

Email Address: mgraham@dassels.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Michael Graham 31 Wright Rd Hollister, CA 95023

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:37:47

Comment 327 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Julian Last Name: Gomez

Email Address: jgomez@dassels.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Julian Gomez 31 Wright Rd Hollister, CA 95023

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:38:29

Comment 328 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Victor Last Name: Zendejas

Email Address: vzendejas@dassels.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

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I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Victor Zendejas 31 Wright Rd Hollister, CA 95023

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:39:23

Comment 329 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Rocco Last Name: Biafore

Email Address: rbiafore@dassels.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Rocco Biafore 31 Wright Rd Hollister, CA 95023

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:40:15

Comment 330 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Kirk Last Name: Hellofs

Email Address: khellofs@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Kirk Hellofs 5650 Dolly Ave Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:41:06

Comment 331 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Steven Last Name: Valverde

Email Address: steven@teecoproducts.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Steven Valverde 16881 Armstrong Ave Irvine, CA 92606

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:41:39

Comment 332 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Mariah Last Name: Arredondo

Email Address: mariaharredondo4@gmail.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Mariah Arredondo 5650 Dolly Ave Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:42:30

Comment 333 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Veronica Last Name: Gomez

Email Address: vgomez@stateslogistics.com

Affiliation:

Subject: ZE Forklift Regulation

Comment:

Dear Chair Randolph,

While the proposed regulation has been amended to address some industry concerns, there are still significant issues with the rulemaking that must be acknowledged including cost, feasibility of implementation, and inaccuracies of data in CARB's analysis. Main points of contention are as follows:

Actual impacted forklifts far exceed CARB estimate: CARB has modelled the total affected forklifts of approximately 95,000, though this inventory count is less than a third of the values produced from the 2017 CARB/SSRC Study. CARB assumes that the internal combustion engine (ICE) forklift population remains stagnant though time has shown an increase in forklifts in the state due to an increase in goods movement. After evaluating forklift fleet owners and operators, CARB's proposal will actually impact over 390,000 ICE forklifts - over three out of every four forklifts in the state.

Technical challenges of run time & operational loads could impact overall cost: While CARB noted that "opportunity charging" may resolve use needs, manufacturers and industry experts remain skeptical that there is a one-to-one replacement for ICE forklifts versus battery electric. Considering an 8-hour use period, 8-hour charge period, and 8-hour battery cool down period for the bulk of existing battery electric forklifts, it would actually be a three-to-one replacement for businesses utilizing 24-hour shifts. Such ratios would significantly increase the total financial impact of this regulation. In addition, lift capacities of battery electric units can make real-world runtimes for heavier loads much lower than rated capacities.

Burdensome costs to forklift owners and operators: CARB's Standardized Regulatory Impact Assessment (SRIA) estimates that the proposed regulation will result in cumulative savings of over \$13.9 billion. Unfortunately, analysis undertaken by Andrew Chang & Company, a consultant hired to determine the potential savings or costs from the rulemaking, has shown quite the opposite. In total, the proposed regulations will cost forklift owners and operators as much as \$28 billion in extra expenses. Even under midpoint estimates, owners and operators must bear nearly \$20 billion in costs.

Renewable propane drastically reduces GHG emissions without significant financial investment: The propane industry has made extraordinary strides to expand production of low carbon renewable fuels for the transportation sector within California. These strides have been made in part thanks to the work of CARB in its implementation of the Low Carbon Fuel Standard. Renewable propane carbon intensities range from half- to one-quarter of the carbon intensity of California's current electric grid. With current blending and transitions to all-renewable fuels, propane has outpaced carbon emissions for California's electric sector in transportation - particularly off-road forklifts.

I appreciate the opportunity to submit this document regarding the rulemaking in hopes of adopting an equitable solution for forklift owners and operators.

Regards, Veronica Gomez 7102 Cate Dr Buena Park, CA 90621

Attachment: "

Original File Name:

Date and Time Comment Was Submitted: 2023-12-26 17:43:29

Comment 334 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Daniel Last Name: Fisher

Email Address: dfisher@aednet.org

Affiliation: Associated Equipment Distributors

Subject: AED ZEF Forklift Regulation Comments

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/340-zeforklifts-UjMBYlA1WCZSN1Iz.pdf'

Original File Name: AED-CARBForkliftComments.pdf

Date and Time Comment Was Submitted: 2023-12-26 18:02:05

Comment 335 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Priscilla Last Name: Rodriguez

Email Address: priscilla@agprocessors.org

Affiliation: WAPA

Subject: CARB ZEV Forklift Rule_Ag Coalition Comments

Comment:

Attachment: 'www.arb.ca.gov/lists/com-attach/341-zeforklifts-VixTM1VmU2JWoM0d.pdf'

Original File Name: CARB ZEV Forklift Rule Ag Coalition Comments_Final 3_12-18-23.pdf

Date and Time Comment Was Submitted: 2023-12-26 20:03:24

Comment 336 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Christine

Last Name: Luther Zimmerman

Email Address: Non-web submitted comment

Affiliation: WSPA

Subject: Comments on the CARB Public Hearing to Consider the Proposed Zero-Emission

Forklift Regula Comment:

Please see attached file.

Attachment: 'www.arb.ca.gov/lists/com-attach/2-0-ViEGcwd2BzUHXlAz.pdf'

Original File Name: wspa comment.pdf

Date and Time Comment Was Submitted: 2024-01-18 11:04:36

Comment 337 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 45 Day.

First Name: Yuying Last Name: Ma

Email Address: yuying.ma@dot.ca.gov Affiliation: Office of Aviation Planning

Subject: Zero Emission Forklift Regulation - Draft EIA Review

Comment:

Please see attached file.

Attachment: 'www.arb.ca.gov/lists/com-attach/349-zeforklifts-AGNWMVE8ByAHc1Iz.pdf'

Original File Name: Caltrans EIA comment 12212024.pdf

Date and Time Comment Was Submitted: 2024-06-05 11:26:28

Comment 1 for Proposed Zero-Emission Forklift Regulation (zeforklifts). (At Hearing)

First Name: Larry Last Name: Schroeder

Email Address: larrykf11@gmail.com

Affiliation:

Subject: Zero-Emission Forklift

Comment:

With California importing 30% of is Electricity and with 48.7% coming from the burning of Fossil Fuels. How does Zero Emissions Forklifts impact emission output from adding an increase to the electric grid? Also with a lot of forklift being charged at night can you confirm the publics off peak electric rate will not increase because of this new regulation?

Thank you,

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2024-06-27 10:47:38

Comment 2 for Proposed Zero-Emission Forklift Regulation (zeforklifts). (At Hearing)

First Name: Andrea Last Name: Woods

Email Address: andrea@jbdewar.com

Affiliation: JB Dewar

Subject: Zero-Emission Forklifts

Comment:

Please do not consider zero-emission forklifts, they are infeasible, and the electric support structure cannot support more electric demand.

Thank you,

Andrea

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2024-06-27 11:29:14

Comment 3 for Proposed Zero-Emission Forklift Regulation (zeforklifts). (At Hearing)

First Name: Kris Last Name: Flaig

Email Address: kris.flaig@lacity.org

Affiliation:

Subject: Zero-Emission Forklift Regulation - Economics for small businesses Comment:

Sir/Madam,

It seems that California will loose some number of jobs and businesses with adoption of this rule. There is no question about that. But, this regulation can go into full effect, IF CARB supports financing of the forklifts for any of the industries or small businesses that have voiced such challenges. Use of propane seems to also be a verifiably life cycle winner of lower emissions when compared to electric forklifts.

So, unless CARB provides this financing, people will lose their jobs and owners will lose their businesses, unless the less expensive propane forklifts are allowed.

Unless CARB levels the field by providing free or zero-interest loans to each small business or essential public service who must buy one or more forklift, especially those who might need to buy three electric units to replace each existing unit, but must buy such forklift(s) at a cashflow loss for several years before then can break even.

Or, unless CARB comes to its senses regarding life cycle emissions of propane forklifts versus "clean" energy.

This seems like a safe bet for CARB and the people of California.

Respectfully yours,

Kris Flaig, PE

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2024-06-27 11:35:22

Comment 1 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Matthew Last Name: Moravek

Email Address: mmoravek@mcclone.net Affiliation: McClone Construction

Subject: Attachment A-1 Proposed 15-Day Changes

Comment:

Attachment: www.arb.ca.gov/lists/com-attach/343-zeforklifts-VTRUJlMmBzUKbwhg.pdf

Original File Name: Attachment A-1 Proposed 15-Day Changes.pdf

Date and Time Comment Was Submitted: 2024-05-31 14:00:39

Comment 2 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Michael Last Name: Caprio

Email Address: mcaprio@republicservices.com

Affiliation: Republic Services

Subject: 15 Day Zero-Emission Forklift Regulation

Comment:

This is a point of clarification relative to Section 3007(b)3B1(c&d) - Page 47 - Fleet Eligibility Criteria for an Infrastructure Site Electrification Delay.

Republic Services has nearly 50 operating locations in CA with at least one affected forklift. Most of the facilities don't have a large number of forklifts (generally 1 per site) with the exception being our recycling plants which may have 3-4 forklifts at each location (there are 3 such facilities statewide). These locations are served by a wide range of public and municipal utilities.

Subdivision c of this section notes that in order for the extension request to be considered the "Fleet Operator has deployed the maximum number of ZEFs that can be supported by the electric utility provider". Due to the limited number of ZEF at each location, the number deployed will most likely be zero since the issue will be access to power or Construction Delays as noted below. There will be limited ability to move units between locations as is required in subdivision d of this section. This will be challenging due to the limited number of units at each site to start with (ie. 1 at most locations that is needed for continuation of operations at that location).

This is more of an FYI and that this type of situation may arise with several company's like ours that operate numerous locations throughout the state that have only 1 forklift. As such, our ability to power and deploy any forklifts at the site if there is an Infrastructure Site Electrification Delay or relocate units from another location and remain in compliance as we Phase Out certain model years will be extremely limited. This may also be the case for Infrastructure Construction Delay Extension requests (outlined on Page 44) as the criteria for receiving the extension are similar to the Electrification Delay criteria.

The reporting platform to be developed by CARB should allow us to map this out for CARB staff as it will be a complete listing of all of our units that operate in the state. We note this here as there is at times a tendency to view large corporations as having the resources to cover their needs state wide and just simply transfer spare equipment between locations. However, the Phase-Out Criteria along with the manufacturer, dealer and rental restrictions contained within the regulation could make it difficult to gain access to qualified forklifts as there will be a higher demand on compliant units throughout the state for all sectors. As noted, there will not be a surplus of spare units that are compliant

within our company pool due to the limited number at each location that are needed to continue operations at each site.

Just noting this so that if and when a situation such as the one described herein does arise, all of the factors noted are taken into consideration when reviewing the extension request. The interaction with several utilities will also complicate matters in this regard and since our Fleet will be viewed as an aggregate of our statewide position (due to the provisions in the Common Ownership or Control definition) the extension request will most likely involve information from multiple locations and multiple utilities.

Appreciate CARB staff's consideration of this note as well as clarifications made on comments we submitted on the 45 day rule (ie. are diesel powered forklifts governed by the rule or not).

Regards,

Michael Caprio Director of Government Affairs - CA

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2024-05-31 14:49:33

Comment 3 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Bob Last Name: Shepherd

Email Address: bshepherd@quinncompany.com Affiliation: The California Caterpillar Dealers

Subject: Zero-Emission Forklift Regulation - 15 Day Comments

Comment:

Please see the attached.

Attachment: www.arb.ca.gov/lists/com-attach/345-zeforklifts-B2AFbFYhUWdSJlM9.pdf

Original File Name: Governing Board Comments - 15-Day - Proposed Zero-Emission Forklift

Regulation.pdf

Date and Time Comment Was Submitted: 2024-06-03 14:21:05

Comment 4 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Rosalie Last Name: Barcinas

Email Address: Rosalie.Barcinas@sce.com

Affiliation: SCE

Subject: Comments on Proposed 15-day Changes to the Zero-Emission Forklift Regulation

Comment:

SCE supports a successful Zero Emission Forklift (ZEF) Regulation and requests that CARB eliminate the requirement for the customer to provide either historical billing or usage data in support of the Infrastructure Site Electrification Delay Extension.

Attachment: www.arb.ca.gov/lists/com-attach/346-zeforklifts-VWVTY1Z5BWZWZQgm.pdf

Original File Name: 06.05.2024.SCE ZE Forklift Comments.pdf

Date and Time Comment Was Submitted: 2024-06-04 17:54:48

Comment 5 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Luke Last Name: Webber

Email Address: luke.webber@logisnextamericas.com

Affiliation:

Subject: 15 Day Public Comment

Comment:

Thank you for taking these comments into consideration during the development of the regulatory draft.

In addition, i also reviewed comments from Mr. Shephard (California Caterpillar Dealers) and also support CARB's efforts to consider this important feedback.

Attachment: www.arb.ca.gov/lists/com-attach/347-zeforklifts-WzhRNlAjVWRVDAd9.docx

Original File Name: CARB ZEF 15 day draft comments.docx

Date and Time Comment Was Submitted: 2024-06-05 09:11:49

Comment 6 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Robert Last Name: Spiegel

Email Address: rspiegel@cmta.net

Affiliation: CMTA

Subject: Zero-Emission Forklift Regulation - 15 Day Comments

Comment:

Please see the attached comments from the California Manufacturers & Technology Association (CMTA).

Attachment: www.arb.ca.gov/lists/com-attach/348-zeforklifts-UjFcN1wpVGYDWgIv.pdf

Original File Name: CMTA - ZEF 15-Day Comments 6.05.24 .pdf

Date and Time Comment Was Submitted: 2024-06-05 11:01:37

Comment 7 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Tommy Last Name: Goodwin

Email Address: tommy.goodwin@exhibitionsconferencesalliance.org

Affiliation: Exhibitions & Conferences Alliance

Subject: ECA CARB ZEF 15-day comments

Comment:

Please see attached. Thank you.

Attachment: www.arb.ca.gov/lists/com-attach/350-zeforklifts-V2UGMFJhVDMKIQAw.pdf

Original File Name: 2024-06-05 -- ECA CARB ZEF 15-day comments.pdf

Date and Time Comment Was Submitted: 2024-06-05 13:14:37

Comment 8 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Alison Last Name: Hahm

Email Address: ahahm@nrdc.org

Affiliation: T.H.E. Impact Project & Coalition Allies

Subject: Comments on CARB Zero-Emission Forklifts Regulation

Comment:

Dear Chair Randolph and Members of the Board,

On behalf of Earthjustice, NRDC, Sierra Club, CCAEJ, CCA, Pacific Environment, SPPHC, WLBA, and EYCEJ, we submit this comment letter regarding the proposed 15-day changes to the California Air Resources Board's Zero-Emission Forklift Rulemaking.

We appreciate CARB's hard work on the ZE Forklifts Regulation. In order to address the air quality challenges in California, we need to transition every segment of our transportation sector to zero-missions. This regulation is an important step in that direction, but we urge CARB to adopt a more ambitious proposal that will bring us to 100 percent zero-emission forklifts by 2035.

Thank you for your consideration of our comments.

Attachment: www.arb.ca.gov/lists/com-attach/351-zeforklifts-ADZWfVFIVCpRZVRg.pdf

Original File Name: 6-5-24 Impact Project ZE Forklifts Letter_Final.pdf

Date and Time Comment Was Submitted: 2024-06-05 14:49:51

Comment 9 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: James Last Name: Simonelli

Email Address: james@metalscoalition.com Affiliation: California Metals Coalition

Subject: Comments on 15-day Zero Emission Forklift Regulation

Comment:

Thank you for the opportunity to comment. Please see attached.

Attachment: www.arb.ca.gov/lists/com-attach/352-zeforklifts-BjcFNgYqUWZWMVcu.pdf

Original File Name: 15-DAY_ZEF_Comments_CMC_June5.pdf

Date and Time Comment Was Submitted: 2024-06-05 15:59:17

Comment 10 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Allegra Last Name: Curiel

Email Address: allegrac@cceeb.org

Affiliation: CCEEB

Subject: RE: Proposed Zero-Emission Forklift 15-Day Regulatory Package

Comment:

Attachment: www.arb.ca.gov/lists/com-attach/353-zeforklifts-UjFTNgZiVGJXM1UK.pdf

Original File Name: CCEEB ZEF 15 Day 06.05.24.pdf

Date and Time Comment Was Submitted: 2024-06-05 16:49:57

Comment 11 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Priscilla Last Name: Rodriguez

Email Address: priscilla@ccgga.org

Affiliation:

Subject: Proposed ZEV Forklift Rule Ag Coalition Comments

Comment:

Please see attachment.

Attachment: www.arb.ca.gov/lists/com-attach/354-zeforklifts-AWJSNVAjBDVXDgJ4.pdf

Original File Name: CARB ZEV Forklift Rule Ag Coalition Comments_Final_ 6-5-24.pdf

Date and Time Comment Was Submitted: 2024-06-05 16:57:53

Comment 12 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Karen Last Name: Mann

Email Address: kmann@trccompanies.com

Affiliation: TRC

Subject: Lower Phase-Out Cap for Large Fleets and Modifications to Infrastructure Extensions

Comment:

Attachment: www.arb.ca.gov/lists/com-attach/355-zeforklifts-VSFUIFc1VVkHYgJt.pdf

Original File Name: TRC Comments on ZE Forklift Regulation.pdf

Date and Time Comment Was Submitted: 2024-06-05 17:49:13

Comment 13 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Jacob Last Name: Asare

Email Address: jasare@aednet.org

Affiliation: State Government Affairs Manager - AED

Subject: Zero-Emission Forklift Regulation Proposed 15-Day Modifications

Comment:

Attachment: www.arb.ca.gov/lists/com-attach/356-zeforklifts-VjcGZVYzUixVMFU0.pdf

Original File Name: AED-CARBForkliftComments-15Day.pdf

Date and Time Comment Was Submitted: 2024-06-05 17:44:43

Comment 14 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Michael Last Name: Lewis

Email Address: mike@lewisandco.net

Affiliation: CIAQC

Subject: Forklift comments

Comment:

Attachment: www.arb.ca.gov/lists/com-attach/357-zeforklifts-USFVIQBuAiEBaFck.pdf

Original File Name: Proposed Zero-Emission Forklift Regulation – 15-Day Comments (1).pdf

Date and Time Comment Was Submitted: 2024-06-05 19:38:57

Comment 15 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Bridget Last Name: McLeavy

Email Address: mcleavyb@emwd.org

Affiliation: Eastern Municipal Water District

Subject: Clarification Compliance Dt - Alternative Schedule for LSI Small Fleet

Comment:

Please see attached file.

Attachment: www.arb.ca.gov/lists/com-attach/359-zeforklifts-AWJTOVAwWXgFagZg.pdf

Original File Name: Clarification Compliance DT - Alternative Schedule for LSI Small Fleet.pdf

Date and Time Comment Was Submitted: 2024-06-11 12:19:00

Comment 16 for Proposed Zero-Emission Forklift Regulation (zeforklifts) - 15-1.

First Name: Michael Last Name: Villanueva

Email Address: mvillanueva@syaslpartners.com

Affiliation: WPGA

Subject: ZEForklifts Regulation

Comment:

Please see attached File

Attachment: www.arb.ca.gov/lists/com-attach/362-zeforklifts-USZQJgNlWGoLUgVm.pdf

Original File Name: WPGA Comments.pdf

Date and Time Comment Was Submitted: 2024-06-14 15:13:19