

September 14, 2015

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#### VIA ELECTRONIC FILING AND OVERNIGHT DELIVERY

Gary Widerburg Commission Secretary Public Service Commission of Utah Heber M. Wells Building, 4<sup>th</sup> Floor 160 East 300 South Salt Lake City, Utah 84111

Re: PacifiCorp Notice of Affiliate Transaction

Docket No. 05-035-54

Dear Mr. Widerburg:

Pursuant to Commitment U3(2), incorporated in the Public Service Commission of Utah's *Report and Order* approving the *Acquisition of PacifiCorp by MidAmerican Energy Holdings Company* (now known as Berkshire Hathaway Energy Company or BHE), issued January 27, 2006, as amended March 14, 2006, and June 5, 2006, Rocky Mountain Power d.b.a. PacifiCorp hereby provides written notice of ongoing ordinary course affiliated interest transactions from time to time with Phillips 66 Company (Phillips 66).

PacifiCorp is a wholly-owned indirect subsidiary of BHE. BHE is a subsidiary of Berkshire Hathaway, Inc. (Berkshire Hathaway). On August 28, 2015, Berkshire Hathaway acquired 10 percent of the outstanding common stock of Phillips 66, causing Phillips 66 to become a PacifiCorp affiliate, as defined by certain PacifiCorp jurisdictions.

Phillips 66 sells gear and engine lubricating oil, transformer insulation oil, hydraulic oil, grease, and other lubricating and insulating petroleum and synthetic fluids to PacifiCorp, all of which are used in the ordinary course of PacifiCorp's generation, mining and distribution operations. Prior to August 28, 2015, PacifiCorp purchased lubricant products pursuant to an existing master materials supply contract in place with BHE (the Agreement). The Agreement is used by several BHE subsidiaries, including PacifiCorp, to place purchase orders. PacifiCorp intends to continue using the Agreement to purchase lubricant products from Phillips 66.

A copy of the Agreement is included with this Notice as Attachment A to this Notice. Exhibit B to the Agreement contains commercially sensitive pricing information that could expose PacifiCorp and Phillips 66 to competitive injury if disclosure is unrestricted. Accordingly, Exhibit B of the Agreement is submitted under seal, and PacifiCorp requests that it be made confidential.

Gary Widerburg Notice of Affiliate Transaction September 14, 2015

PacifiCorp purchases lubricant products from Phillips 66 as needed from time to time in the normal course of its operations. As such, there is no set dollar amount of such purchases. PacifiCorp has historically purchased approximately \$700,000 of oil and grease products per year and anticipates future purchase levels will be similar.

The Agreement was competitively procured and contains standard commercial sales terms and conditions to protect PacifiCorp's ability to provide safe and reliable service. Thus, the continuation of the purchase order transactions under the Agreement will not harm the public interest.

Please do not hesitate to contact me if you have any questions.

Best Regards,

R. Jeff Richards

Vice President and General Counsel

PacifiCorp

Enclosures

cc: Chris Parker, DPU

Michele Beck, OCS

### MASTER MATERIALS SUPPLY CONTRACT

#### BETWEEN

#### BERKSHIRE HATHAWAY ENERGY COMPANY

#### AND

#### **PHILLIPS 66 COMPANY**

#### **TABLE OF CONTENTS**

PAGE	
ARTICLE 1. DEFINITIONS	2
ARTICLE 2. DESCRIPTION OF SUPPLY	5
ARTICLE 3. PURCHASE ORDERS	_
ARTICLE 4. PERIOD OF PERFORMANCE	5
ARTICLE 5. CONSIDERATION AND PAYMENT	
ARTICLE 6. TAXES	
ARTICLE 7. ACCOUNTING AND AUDITING	0
ARTICLE 8. CREDIT REQUIREMENTS	
ARTICLE 9. [INTENTIONALLY DELETED]	7
ARTICLE 10. WITHHOLDING PAYMENT	7
ARTICLE 11. DESIGNATED REPRESENTATIVES AND NOTICES	7
ARTICLE 12. DELIVERY	0
ARTICLE 13. SHIPPING AND HANDLING	0
ARTICLE 14. RETURN OF MATERIALS	Q
ARTICLE 15. [INTENTIONALLY DELETED]	Q
ARTICLE 16. WARRANTY	0
ARTICLE 18. CHANGES TO CONTRACT AND PURCHASE ORDERS	0
ARTICLE 19. INSURANCE	0
ARTICLE 20. INDEMNIFICATION	11
ARTICLE 22. [INTENTIONALLY DELETED]	12
ARTICLE 23. SUPPLIER'S PERSONNEL; DRUGS, ALCOHOL AND FIREARMS	12
ARTICLE 24. SUBSTANCE ABUSE; DRUG AND ALCOHOL POLICY	10
ARTICLE 25. DEPARTMENT OF TRANSPORTATION	10
ARTICLE 26. BUSINESS ETHICS	12
ARTICLE 27. SAFETY AND WORK SITE REGULATIONS	12
ARTICLE 28. LIENS	13

ARTICLE 29. CONFLICTS, ERRORS, OMISSIONS, OR DISCREPANCIES IN CONTRACT DOCUMENTS	13
ARTICLE 30. CLAIM NOTICE AND RESOLUTION PROCEDURE	13
ARTICLE 31. SUSPENSION OF WORK	14
ARTICLE 32. TERMINATION FOR CONVENIENCE	14
ARTICLE 33. TERMINATION FOR CAUSE	14
ARTICLE 34. DELAYS	15
ARTICLE 35. COMPLIANCE WITH LAWS	15
ARTICLE 36. CONFLICT MINERALS	15
ARTICLE 37. INDEPENDENT CONTRACTOR	15
ARTICLE 38. RELEASE OF INFORMATION; ADVERTISING AND PROMOTION	16
ARTICLE 39. CONFIDENTIAL INFORMATION; NONDISCLOSURE	16
ARTICLE 40. OWNERSHIP OF DESIGNS, DRAWINGS AND WORK PRODUCT	16
ARTICLE 41. PATENT AND COPYRIGHT INDEMNITY	16
ARTICLE 42. ELECTRONIC COMMERCE	17
ARTICLE 43. ASSIGNMENT	17
ARTICLE 44. SUBCONTRACTS	17
ARTICLE 45. NONWAIVER	17
ARTICLE 46. SEVERABILITY	17
ARTICLE 47. APPLICABLE LAW AND VENUE	17
ARTICLE 48. EQUIPMENT FUND	18
ARTICLE 49. ENTIRE CONTRACT; DOCUMENTS INCORPORATED BY REFERENCE	18
ARTICLE 50. EXECUTION AND EFFECTIVE DATE	10

#### **ATTACHMENTS**

EXHIBIT A-MATERIALS AND SPECIFICATIONS

APPENDIX 1, SPECIAL CONDITIONS - PACIFICORP

APPENDIX 2, SPECIAL CONDITIONS - MIDAMERICAN ENERGY COMPANY

APPENDIX 3, SPECIAL CONDITIONS - NV ENERGY

APPENDIX 4, COMPANY LOCATIONS

ATTACHMENT 1, PACIFICORP LUBE OIL SPECIFICATION

ATTACHMENT 2, MIDAMERICAN ENERGY LUBE OIL SPECIFICATION

EXHIBIT B-PRICING SCHEDULE

EXHIBIT B.1-PRICING ESCALATION AND DE-ESCALATION

EXHIBIT B.2 - BERKSHIRE ENERGY EQUIPMENT FUND AMORTIZATION SCHEDULE

EXHIBIT C-FORM OF PURCHASE ORDER

EXHIBIT D - [RESERVED]

EXHIBIT E - AFFILIATES LIST AND PRINCIPAL BUSINESS ADDRESS

EXHIBIT F - FORM OF AFFILIATE PARTICIPATION LETTER

#### MASTER MATERIALS SUPPLY CONTRACT

#### BETWEEN

#### BERKSHIRE HATHAWAY ENERGY COMPANY

#### AND

#### **PHILLIPS 66 COMPANY**

#### **PARTIES**

The Parties to this Master Materials Supply Contract (the "Contract") are Berkshire Hathaway Energy Company whose principal address is 666 Grand Avenue, P.O. Box 657, Des Moines, Iowa 50306-0657, and its Affiliates who elect to utilize this Contract and agree to be bound by the terms and conditions, and applicable Exhibits and Appendices set forth herein (hereinafter collectively "Company"), and Phillips 66 Company (hereinafter "Supplier"), whose address is 3010 Briarpark Drive, Houston TX 77042. Company and Supplier are hereinafter sometimes collectively referred to as "Parties" and individually as a "Party," as the context may require. The Parties will incorporate these master terms and conditions in their contracts for Supplier's supply of Materials and Work for participating Affiliates. Each Affiliate Participation Letter issued in accordance with this Contract shall constitute a separate contract between Company or its applicable participating Affiliate and Supplier (and references to "the Contract" or "this Contract" shall be construed to refer to the applicable Participation Letter - - with these terms incorporated therein). Each Affiliate that submits an Affiliate Participation Letter in accordance with these master terms and conditions shall be construed as "Company" with respect to the Purchase Orders placed by such Affiliate and is solely responsible for the obligations of "Company" assumed with respect those orders, and neither Berkshire Hathaway Energy Company nor any other Affiliate shall have any responsibility for such obligations.

#### ARTICLE 1. DEFINITIONS

Affiliate(s) shall mean any entity which Berkshire Hathaway Energy Company now or hereafter (a) owns or controls at least fifty percent (50%) or more of the ownership interest; or (b) exercises management control; or (c) lists as an affiliated company on Exhibit E. Any Affiliate, which elects to participate in and utilize this Contract shall also be "Company" under this Contract and shall be responsible for all obligations associated with the purchase of Materials from Supplier. Additional Affiliates may be added to or removed from Exhibit E at any time upon Supplier's receipt of Notice from Company. Changes to Exhibit E are not required to be incorporated via a written amendment to this Contract. When placing an initial order for Materials, or in conjunction with an initial purchase order, an Affiliate will execute and submit an Affiliate Participation Letter with the order in the form of Exhibit E.

Business Day shall mean a day, other than a Saturday, Sunday or holiday, on which banks are generally open for business. Any generic references to "days" shall be deemed to mean a calendar day and not a Business Day; provided, however, that if the final "day" of any period specified in this Contract falls on a day other than a Business Day, then the period shall be construed so as to end on the next succeeding Business Day.

CIPS Covered Assets shall mean any assets identified by Company as "critical assets" or "critical cyber assets," as those terms are defined in the North American Electric Reliability Corporation Glossary of Terms. To the extent the Materials are to be delivered to a Company Work Site location that requires Supplier to gain access to CIPS Covered Assets or any of the Work to be performed relating to the supply of Materials to Company requires Supplier to gain access to CIPS Covered Assets, Supplier shall adhere to the requirements set forth in Appendix 1, Appendix 2 and Appendix 3, Special Conditions.

Deliverables shall mean all drawings, manuals, calculations, specifications, maps, sketches, designs, tracings, notes, reports, data, computer programs, models, plans, programs, procedures, protocols, samples and other documents and deliverables that are to be provided, obtained, prepared and delivered to Company by Supplier, as set forth in the Specifications.

Emergency shall mean conditions under which, without effecting an immediate repair or replacement: (i) life, health, or safety would be endangered by operation of the Company's assets; (ii) the Company's assets would be

unavailable for commercial use; or (iii) the Company's assets could not be operated, or demonstrated to be operating, in compliance with a) environmental regulations; b) regulations, policies or procedures issued by governmental or regulatory authorities; or c) prudent utility practice.

Force Majeure Event shall mean a delay caused by any national or general strikes (but excluding strikes relating solely to the work force of Company, Supplier or a Subcontractor), fires, riots, acts of God, acts of the public enemy, floods, acts of terrorism, unavoidable transportation accidents or embargoes, or other events which are: (i) not reasonably foreseeable as of the date the applicable Purchase Order is released; and (ii) attributable to a cause beyond the control and without the fault or negligence of the Party incurring such delay. The term Force Majeure Event does not include a delay caused by seasonal weather conditions, general economic conditions, changes in the costs of goods or Supplier's failure to place orders for equipment, materials or other items sufficiently in advance to ensure delivery of the Materials and/or availability when needed.

Lead Time shall mean the maximum production time for any specific item of Material from the date of Supplier's confirmed receipt of Company's Purchase Order, as such Lead Times are stated in Exhibit A.

Material(s) shall mean all lubricant products, equipment, materials, goods, parts, associated hardware, documentation, spare parts, data packages, software and associated incidental services to be delivered or provided to Company, by Supplier, under this Contract and pursuant to Purchase Orders issued to Supplier by Company.

Material Adverse Change or MAC shall mean, with respect to Supplier, if Supplier, in the reasonable opinion of Company, has experienced a material adverse change in Supplier's financial condition or Supplier's ability to fulfill its obligations under this Contract, including, but not limited to, any such change that results in its inability to satisfy ARTICLE 8, CREDIT REQUIREMENTS, including any event or circumstance that would give Company the right to terminate for cause pursuant to ARTICLE 33, TERMINATION FOR CAUSE.

Minimum Order Quantity is defined as three hundred fifty dollars (\$350.00) on any single Purchase Order. For orders less than three hundred fifty dollars (\$350.00), Supplier may elect to ship the material with a common carrier FOB Ship Point, freight terms, pre-pay and add.

Net Replacement Costs shall mean the "cost to cover" remedy available to Company in the event of a default by Supplier under a Purchase Order. The Net Replacement Costs shall be calculated by: (i) subtracting the price payable under the Purchase Order from the costs incurred by Company to obtain an alternative supplier to furnish the Materials that Supplier was otherwise obligated to provide; and (ii) adding a sum for additional managerial, administrative, and other reasonable costs (internal and third-party) Company incurs as a result of Supplier's default.

Notice shall mean a formal written communication which, pursuant to the Contract, one Party must deliver to the other in order to invoke a Contract right set forth herein.

**Personnel** shall mean the employees of Supplier or any of the employees or representatives of any of Supplier's agents, Subcontractors, or independent contractors, of any tier, who are employed or engaged by Supplier to perform Work or provide all or part or any subpart of the Materials under this Contract.

Purchase Order shall mean the document(s) containing the information set forth in ARTICLE 3, PURCHASE ORDERS, which is used to order Materials pursuant to the master terms and conditions set forth in this Contract.

Specification(s) shall mean any and all drawings, specifications, product descriptions and/or other requirements setting forth Supplier's obligations with respect to the Materials as detailed in Exhibit B, or in any attachment appended to a Purchase Order for a specific Materials order.

Subcontractor shall mean any sub-supplier or contractor, at any tier, having an agreement with Supplier to perform a portion of Supplier's obligations under this Contract.

**Term** shall mean the period commencing upon the execution of this Contract by Company and continuing thereafter until December 31, 2019, unless earlier terminated as provided herein.

Work shall mean all obligations, duties, requirements and responsibilities for the successful supply and delivery of the Materials in accordance with the terms and conditions set forth herein and inclusive of those detailed within a specific Purchase Order.

Work Site shall mean the location or locations on Company's premises (if any) where the Materials are to be

delivered and any portion of the Work is to be performed.

#### ARTICLE 2. DESCRIPTION OF SUPPLY

Upon Supplier's receipt of a Purchase Order, Supplier shall supply and deliver to Company the Materials listed and specifically described in Exhibit B in accordance with the Specifications contained therein. Each Purchase Order issued by Company to Supplier shall be placed subject to, and in accordance with, the general terms and conditions set forth in this Contract, including any Lead Times and Minimum Order Quantities.

Company is under no obligation to purchase any specific amount of Materials under this Contract, and this Contract shall not be construed in any way as granting to Supplier an exclusive right to provide any or all of the Materials contemplated herein. The use of Supplier for the purchase of Materials is discretionary with Company, and Company expressly reserves the right to purchase similar or identical items from alternative suppliers during the Term, in Company's sole discretion. The intent of this Contract is to establish master terms and conditions that will govern Purchase Orders issued by Company to Supplier during the Term. The Parties acknowledge the difficulty of determining in advance the exact quantity of Materials Company will need to purchase from Supplier during any contract year, and agree that there must be some elasticity around any estimate. As a consequence, Supplier agrees to supply the estimated quantity set forth in the Affiliate Participation Letter, and Company agrees to exert good faith efforts to purchase the estimated quantity.

Supplier shall maintain inventory levels of Materials to meet Company's estimated Materials purchase forecasts, as such may be provided to Supplier from time to time.

#### ARTICLE 3. PURCHASE ORDERS

Each Purchase Order will identify and/or describe: (i) the Materials; (ii) the guaranteed delivery date, including any liquidated damages to be assessed in the event of Supplier's failure to timely perform; (iii) agreed pricing (if any) that modifies Exhibit B; (iv) the delivery location and agreed delivery terms that modify ARTICLE 12, DELIVERY (if any); (v) whether the performance of such Work will require access to Company CIPS Covered Assets; (vi) the designated representatives for each Party with respect to the order; (vii) order-specific invoicing instructions; and (viii) any other order-specific terms and conditions. The terms and conditions of this Contract shall apply to each Purchase Order, as supplemented by the order-specific terms of the Purchase Order. This Contract and the applicable Purchase Order shall, together, constitute the entire agreement between the Parties with respect to any specific Materials ordered under this Contract. A Purchase Order will be issued through the Company's procurement system and will specifically reference this Contract.

Purchase Order Submittal - All Purchase Orders from the Company shall be sent via email to:

Phillips 66 Customer Service Center

800-448-6630 Ex. 2

LubesCSCNaturalGasPowerGEN@p66.com

#### ARTICLE 4. PERIOD OF PERFORMANCE

The Contract shall be effective for Materials ordered pursuant to a Purchase Order issued during the Term of the Contract, whether or not such Materials are scheduled to be delivered or actually delivered prior to the expiration of such Term. The expiration of the Term shall not impact the Parties' respective rights or obligations with respect to any Purchase Orders issued prior to expiration. Moreover, neither the expiration of the Term nor any earlier termination of this Contract shall impact any warranties, indemnities, insurance requirements, confidentiality obligations, termination obligations, or other obligations, which by their own terms are intended to survive the completion of delivery of Materials pursuant to a Purchase Order, all of which shall continue in full force and effect after the termination or expiration of the Contract.

Each Purchase Order will specify a guaranteed delivery date for the Materials. Time is of the essence. Unless otherwise excused by the terms of this Contract, Supplier's failure to timely deliver the Materials shall result in the assessment of liquidated damages, to the extent such liquidated damage amounts are set forth in such Purchase Order. In order for liquidated damages to be enforceable, a Purchase Order containing such liquidated damages must be submitted in strict accordance with ARTICLE 3, PURCHASE ORDERS. Supplier may refuse to accept any Purchase Order containing liquidated damages provisions; provided, however that the quantities included within

such Purchase Order shall be included within Company's good faith purchase commitment set forth in ARTICLE 2, DESCRIPTION OF SUPPLY. Where no liquidated damages are specified, Company will have all of the rights and remedies available at law with respect to late delivery. Supplier will provide advance communication to Company on all Purchase Order that will not be delivered in full per the confirmed Purchase Order delivery date.

#### ARTICLE 5. CONSIDERATION AND PAYMENT

Except as otherwise set forth in the applicable Purchase Order, prices for Materials shall be those set for in Exhibit B. The pricing set forth in Exhibit B does not include any sales and use taxes to be reimbursed by Company pursuant to ARTICLE 6, TAXES. Escalation or other adjustments to pricing shall only be permitted to the extent expressly set forth in Exhibit B.

Except as otherwise set forth in the applicable Purchase Order, Supplier shall invoice Company for Materials upon or after delivery and acceptance by Company. All invoices shall include separate line item charges for each Material purchased by Company, including separate line items for any additional charges under said invoice. Supplier shall furnish reasonable backup detail and documentation supporting each invoice line item charge including, without limitation, receipts, bills of lading, etc. supporting all charges. Company will pay Supplier, as full consideration for the satisfactory performance of Supplier's obligations under this Contract, all amounts due in accordance with the Contract within thirty (30) days of date of invoice(s). All invoices shall reference the applicable Contract number. Supplier shall identify and clearly set forth on the invoice any discount for early payment. To the extent that Supplier must resubmit any invoice for failing to comply with the Company's invoicing requirements, any offer of a discount for early payment shall remain valid until such time as Company has received a proper invoice for payment. The total amount of consideration payable for the Materials will be specified in the Purchase Order.

Each Affiliate shall furnish to Supplier a listing of all contacts necessary at delivery locations for Supplier to follow-up on past due or disputed invoices. Each Affiliate shall make best efforts to update and maintain this listing for accuracy and forward updates thereto to Supplier's Treasury Department via electronic mail or by facsimile to Supplier's designate. Each Affiliate further agrees to supply via the same routing the names, phone and facsimile number of the supervisors within the Affiliate's accounts payable department to whom payment disputes can be escalated. Supplier shall first make requests hereunder directly to the delivery sites and to the personnel as provided by each Affiliate in the listing referred to above. In order to qualify for the payment terms included above, any new Affiliate, not initially identified on Exhibit E, shall have to satisfactorily complete a credit review in accordance with Supplier's credit procedures.

Any Affiliate, which requests Materials from Supplier hereunder, shall be responsible for all obligations associated with the Affiliate's request and purchase of such Materials. It is understood and agreed that each Affiliate participating in this Contract is solely responsible and liable for its obligations related to the purchase and sale of Materials to Supplier. Berkshire Hathaway Energy Company and any other participating Affiliate(s) shall have no obligation or liability, contractually or otherwise, for payment incurred by the specific Affiliate requesting Materials from Supplier hereunder.

All invoices shall be addressed to the Affiliate requesting the Materials at the address shown on the Affiliate Participation Letter. Additional Affiliates, which may elect to participate in and under this Contract after the effective date hereof, shall notify Supplier of the proper billing address for forwarding Supplier invoices.

Company may offset any such payment to reflect amounts owing from Supplier to Company or its Affiliates pursuant to this Contract or any other agreement between the parties. In addition, Company may withhold all payments otherwise due Supplier until such time as Supplier has provided the Default Security, if any, that is required by this Contract.

#### ARTICLE 6. TAXES

The pricing described in Exhibit B is exclusive of all taxes to be borne by Company arising out of Supplier's performance hereunder, including without limitation sales and use taxes. Except as otherwise set forth in the applicable Purchase Order, local sales and use taxes in all states shall be paid by Supplier and invoiced as a separate line item. Notwithstanding the foregoing, Supplier is solely responsible for all import and export duties and value-added taxes related to the Materials and all applicable parts or supplies. Upon request of Company, Supplier shall promptly provide to Company evidence satisfactory to Company of the payment of all applicable taxes.

#### ARTICLE 7. ACCOUNTING AND AUDITING

Supplier shall keep accurate and complete accounting records in support of any cost-based billings and claims charged to Company in accordance with generally accepted accounting principles. Company, or its audit representatives, shall have the right at any reasonable time or times to examine, audit, and copy the records, vouchers, and other source documents which relate to any claim for compensation other than pricing elements which are fixed in amount by this Contract. Such documents shall be available for examination, audit, and reproduction for three (3) years after completion or termination of this Contract.

Supplier shall assist Company with preparing necessary audit material and will allow Company to review any work papers prepared by independent auditors as allowed by professional standards. Any over-collections shall be returned within thirty (30) days from date of Notice of overcharge. Audit findings will be considered to be final for the period audited.

#### ARTICLE 8. CREDIT REQUIREMENTS

Supplier shall meet the requirements of either clause (i) or clause (ii) below: (i) Supplier maintains a senior unsecured debt rating from Standard & Poor's of BBB- or better; or (ii) if Supplier does not maintain a satisfactory debt rating, Supplier meets ALL of the following credit standards: a) tangible net worth ten (10) times the projected maximum liability of Supplier under this Contract; b) no change in the condition of its earnings, net worth, or working capital over the last twenty-four (24) months, which would reasonably be anticipated to impair Supplier's ability to meet its obligations under this Contract; and c) Supplier is not in default under any of its other agreements and is current on all of its financial obligations.

If requested by Company, Supplier shall within thirty (30) days provide Company with copies of its most recent annual and quarterly financial statements prepared in accordance with generally accepted accounting principles.

#### ARTICLE 9. [INTENTIONALLY DELETED]

#### ARTICLE 10. WITHHOLDING PAYMENT

Company may, without limiting any other rights or remedies Company may have, withhold from payment sufficient amounts which reflect the reasonable cost to repair or replace non-conforming or defective Materials or the value of any claim which Company has against Supplier under the Contract.

#### ARTICLE 11. DESIGNATED REPRESENTATIVES AND NOTICES

Supplier shall designate a representative authorized to receive Purchase Orders and act on its behalf and shall advise Company in writing of the name, address, and telephone number of such designated representative, and shall inform Company of any subsequent change in such designation. All communications to Supplier relating to the day-to-day activities under this Contract and any applicable Purchase Orders shall be communicated to Supplier's designated representative.

In each Purchase Order, Company shall designate a representative authorized to act on its behalf with respect to the Materials ordered pursuant to such Purchase Order, and shall inform Supplier of any subsequent change in such designation. All communications to Company relating to the day-to-day activities under such Purchase Order shall be communicated to Company's designated representative.

Any formal Notice required to be delivered in writing under the terms of this Contract shall be delivered to the representative of the other Party as designated below. In addition to providing formal Notice to Berkshire Hathaway Energy Company, Supplier shall provide the participating Affiliate, about which the formal Notice pertains, a copy of the same addressed to the representative as set forth on Exhibit E, Affiliates List and Principal Business Address. Additional Affiliates, which may elect to participate in and under this Contract after the effective date hereof, shall notify Supplier of the proper representative and address for forwarding formal Notices required hereunder. All formal written Notices shall either be: (i) hand delivered; (ii) deposited in the mail, properly stamped with the required postage; (iii) sent via registered or certified mail; or (iv) sent via recognized overnight courier service. The Parties' addresses for purposes of Notice shall be as set forth below and for Affiliates, as listed on Exhibit E:

If to Company:  Berkshire Hathaway Energy Company		If to Supplier:		
		Phillips 66 Company		
825 NE Multnomah Street, Suite 400 2000 West Sam Houston Parkway So		2000 West Sam Houston Parkway So		
Portland, Oregon 97232		One BriarLake Plaza		
Attention:	Manager, Contract Administration	Attention: Manager Commercial Lubricants		
Telephone:	503-813-5605	Telephone: 281-293-6600		

Either Party may change the name or address of the designated recipient of Notices by delivery of a Notice of such change as provided for in this Article.

#### **ARTICLE 12. DELIVERY**

Delivery of the Materials is a substantial and material consideration under this Contract. Unless otherwise set forth in a Purchase Order, delivery of the Materials shall be FOB to the Work Site or other location specified in the Purchase Order, with Supplier retaining all risk, liability and responsibility, financial or otherwise, until Company receives and accepts such Materials, unless otherwise specified in Exhibit B.

Supplier shall deliver Materials according to guaranteed delivery dates (as per the accepted Purchase Order), free of defects, and within a firm Lead Time.

#### ARTICLE 13. SHIPPING AND HANDLING

Supplier is responsible for ensuring that the Materials furnished under this Contract are suitably packaged to prevent damage under normal handling and transportation methods.

#### **ARTICLE 14. RETURN OF MATERIALS**

Supplier shall accept Materials for return to Supplier inventory without charge to Company when the following conditions are met:

- a. The Materials are not unique to Company, are returned in original packaging and in an unused condition, and the return to Supplier by Company was within six (6) months of Company's receipt of the same;
- b. Costs for return logistics to Supplier are to the account of Company; and
- c. Such Materials have been stored by Company in accordance with Supplier provided environmental storage conditions or, in the event Supplier fails to provide environmental storage guidelines, in accordance with generally accepted storage guidelines for such Materials.

#### ARTICLE 15. [INTENTIONALLY DELETED]

#### ARTICLE 16. WARRANTY

Supplier warrants that the Materials furnished hereunder shall conform to the Specifications (including all inspection and testing criteria as defined by Company in the Specifications), to any other requirements set forth in the Contract, and to any additional requirements set forth in drawings, samples, descriptions and other Deliverables furnished pursuant to the Contract (to the extent that such additional requirements do not conflict with the Specifications). Supplier further warrants that the Materials shall be free from defects and shall be suitable for the use specified.

THE FOREGOING WARRANTIES ARE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE, EXCEPT FOR THE USE AS SPECIFIED IN THIS CONTRACT, IF ANY, AND CONSTITUTES THE ONLY WARRANTIES OF SUPPLIER WITH RESPECT TO THE MATERIALS PURSUANT TO THIS CONTRACT.

Company shall present all warranty claims to the Supplier within a reasonable period of time. Company shall use commercially reasonable efforts to preserve the equipment on which the Materials were used and make them available for Supplier's inspection.

Supplier's liability under this warranty and Company's remedy will be limited to refund of the purchase price by a billing adjustment, or replacement of the Supplier Materials involved, at Company's sole option, <u>provided</u>, however, to the extent damage to equipment or property occur as a result of the Materials, whether because the Materials are defective or because the Materials were incorrectly delivered, specified or recommended by Supplier for use, then Supplier will be liable for the cost of repairs, including component replacement(s). Supplier shall not be responsible pursuant to this provision to the extent: (a) the wrong Materials were used for the application due to an act or omission of Company: (2) the damage arises from use of other competitor's (not Supplier's) lubricants; (c) the damage arises from engine or equipment modification unrelated to the Materials; or (d) Company has failed to operate or maintain the equipment as required by the manufacturer and the failure of the Materials to meet the foregoing warranties were not the cause of the damage.

If Supplier fails to promptly make any repair, replacement or re-performance as required herein, Company may conduct the necessary Work at Supplier's expense. Supplier cannot void the warranty for repair, replacement or reperformance performed under these circumstances. Provided that such repair, replacement or re-performance is conducted in a reasonable manner and with workmanship and care consistent with industry standards, Supplier shall reimburse Company for the cost of any warranty repair, replacement or re-performance self-performed by Company.

If any Materials fail to meet the foregoing warranties, Company shall have the right, at Supplier's cost, to perform Emergency replacements or repairs as Company deems necessary to mitigate risks to persons and property and to minimize on-going production losses. The Company agrees to notify Supplier of these Emergency repairs or replacements as soon as practical. Supplier cannot void the warranty for repairs or replacements performed under these Emergency circumstances. Provided that the Emergency repairs or replacements are performed in a reasonable manner and with workmanship and care measured by the industry standards, Supplier shall reimburse Company for the cost of any warranty replacements or repairs made by Company necessitated by an Emergency.

Supplier shall have no obligation as to any Materials, which have been improperly stored or handled, or which have not been operated or maintained according to written instructions provided to Company by Supplier.

#### ARTICLE 17. [INTENTIONALLY DELETED]

#### ARTICLE 18. CHANGES TO CONTRACT AND PURCHASE ORDERS

Company may at any time in writing direct changes and/or additions within the general scope of a Purchase Order or this Contract, direct the omission of or variation of Materials and/or Work, or alter the delivery schedule. If any such direction results in a material change in the amount or character of the Materials or Work, an equitable adjustment in the Purchase Order price and other such provisions of this Contract or any relevant Purchase Order as may be affected shall be made and this Contract and/or any relevant Purchase Order shall be modified in writing accordingly. Any claim by Supplier for an adjustment under this Article shall be processed in accordance with the provisions of ARTICLE 30, CLAIM NOTICE AND RESOLUTION PROCEDURE.

No change shall be binding upon Company until a change order is executed by an authorized representative of Company which expressly states that it constitutes a change order to this Contract. THE ISSUANCE OF INFORMATION, ADVICE, APPROVALS, OR INSTRUCTIONS BY ANYONE OTHER THAN THE AUTHORIZED COMPANY REPRESENTATIVE SHALL NOT CONSTITUTE AN AUTHORIZED CHANGE ORDER PURSUANT TO THIS ARTICLE.

#### ARTICLE 19. INSURANCE

Without limiting any liabilities or any other obligations of Supplier, Supplier shall, prior to commencing Work, secure and continuously carry with insurers having an A.M. Best Insurance Reports rating of A-:VII or better such insurance as will protect Supplier from liability and claims for injuries and damages which may arise out of or result from Supplier's operations under the Contract and for which Supplier may be legally liable, whether such operations are by Supplier or a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Supplier shall insure the risks associated with the Work and this Contract with minimum coverage and limits as set forth below:

<u>Workers' Compensation</u>. Supplier shall comply with all applicable workers' compensation laws and shall furnish proof thereof satisfactory to Company prior to commencing Work. If Work is to be performed in Washington or Wyoming, Supplier will participate in the appropriate state fund(s) to cover all eligible employees and provide a stop gap (employer's liability) endorsement. Coverage should also provide applicable federal regulations (including, without limitation, FELA, USL&H and the Jones Act).

Employers' Liability. Supplier shall maintain employers' liability insurance with a minimum single limit of \$500,000 each accident, \$500,000 disease each employee, and \$500,000 disease policy limit.

Commercial General Liability. Supplier shall maintain commercial general liability insurance on the most recently approved ISO policy form, or its equivalent, written on an occurrence basis, with limits not less than \$1,000,000 per occurrence/\$2,000,000 general aggregate (on a per location and/or per job basis) and shall include the following coverage:

- a. Premises and operations coverage
- b. Independent contractor's coverage
- c. Contractual liability
- d. Products and completed operations coverage
- e. Coverage for explosion, collapse, and underground property damage
- f. Broad form property damage liability
- g. Personal and advertising injury liability, with the contractual exclusion removed
- h. Sudden and accidental pollution liability, as applicable

Business Automobile Liability. Supplier shall maintain business automobile liability insurance on the most recently approved ISO policy form, or its equivalent, with a minimum single limit of \$1,000,000 each accident for bodily injury and property damage including sudden and accidental pollution liability, with respect to Supplier's vehicles whether owned, hired or non-owned, assigned to or used in the performance of the Work. If applicable, the automobile liability policy will include pollution liability coverage equivalent to that provided under the ISO Pollution Liability Broadened Coverage for Covered Autos endorsement (CA9948) and Motor Carrier Act endorsement (MCS90) shall be attached.

<u>Umbrella or Excess Liability</u>. Supplier shall maintain umbrella or excess liability insurance with a minimum limit of \$5,000,000 each occurrence/aggregate where applicable on a following form basis to be excess of the insurance coverage and limits required in employers' liability insurance, commercial general liability insurance and business automobile liability insurance above. Supplier shall provide Notice to Company, if at any time the full umbrella limit required under this Contract is not available, and will purchase additional limits, if requested by Company.

Transit Insurance. Supplier shall maintain transit insurance covering all worldwide air, land and water shipments, and shall include loading and unloading if such Work is conducted by Supplier or any Subcontractor, and offsite storage, if applicable. Transit insurance shall be provided on an all risk basis to include direct physical loss or damage, including but not limited to loss caused by war, terrorism, strike, riot and civil commotion, and fabrication/repairs. Losses resulting from damage during transit shall be provided to cover full replacement cost of the plant, equipment, machinery, components, supplies and materials being shipped and provide valuation of not less than CIF plus 10%. Deductibles shall not be greater than \$100,000 for any loss. Supplier shall have obtained such transit coverage on or prior to the date on which the exposure to the risk arises. Company will be named loss payee or additional named insured for its interest in the covered property.

Company does not represent that the insurance coverage specified herein (whether in scope of coverage or amounts of coverage) are adequate to protect the obligations of Supplier, and Supplier shall be solely responsible for any deficiencies thereof.

Except for workers' compensation, the policies required herein shall include provisions or endorsements naming Berkshire Hathaway Energy Company, its Affiliates, divisions, subsidiary companies, facility co-owners, and the officers, directors, agents, employees, servants and insurers of the same as additional insureds to the extent of Supplier's indemnification obligations of Company herein. In the event additional Affiliates elect to participate in and under this Contract after the effective date hereof, Supplier shall provide Company updated certificates of

insurance evidencing that it has included such Affiliates as additional insureds to the extent of Supplier's indemnification obligations of Company herein in each of the Supplier's insurance policies. The commercial general liability additional insured endorsement shall be ISO Form CG 20 10 or its equivalent.

To the extent of Supplier's negligent acts or omissions, all policies required by this Contract shall include: (i) provisions that such insurance is primary insurance with respect to the interests of Company and that any other insurance maintained by Company is excess and not contributory insurance with the insurance required hereunder (ii) provisions that the policy contain a cross liability or severability of interest clause or endorsement in the commercial general liability and automobile liability coverage; and (iii) provisions that such policies not be canceled or their limits of liability reduced without: (a) ten (10) days prior Notice to Company if canceled for nonpayment of premium; or (b) thirty (30) days prior Notice to Company if canceled for any other reason. Unless prohibited by applicable law, all required insurance policies shall contain provisions that the insurer will have no right of recovery or subrogation against Company, its parent, divisions, Affiliates, subsidiary companies, facility co-owners, agents, directors, officers, employees, servants, and insurers to the extent of Supplier's indemnification obligations of Company herein, it being the intention of the Parties that the insurance as effected shall protect all of the above-referenced entities evidenced by waiver of subrogation wording.

A certificate of insurance shall be furnished to Company confirming the issuance of such insurance prior to commencement of Work by Supplier.

Notwithstanding anything to the contrary in this Article, Supplier may self-insure for the noted insurance requirements subject to the reasonable approval of Company. Supplier shall furnish Company a letter of self-insurance evidencing Supplier's compliance with this Article.

Supplier shall require Subcontractors who perform Work at the Work Site or other designated delivery location to carry liability insurance (auto, commercial general liability and excess) and workers' compensation/employer's liability insurance commensurate with their respective scopes of work. Supplier shall remain responsible for any claims, lawsuits, losses and expenses included defense costs that exceed any of its Subcontractors' insurance limits or for uninsured claims or losses.

#### **ARTICLE 20. INDEMNIFICATION**

SUPPLIER SPECIFICALLY AND EXPRESSLY AGREES TO INDEMNIFY, DEFEND, AND HOLD HARMLESS COMPANY, ALL AFFILIATES, AND THEIR OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS (HEREINAFTER COLLECTIVELY "INDEMNITEES") AGAINST AND FROM ANY AND ALL CLAIMS, DEMANDS, SUITS, LOSSES, COSTS AND DAMAGES OF EVERY KIND AND DESCRIPTION, INCLUDING ATTORNEYS' FEES AND/OR LITIGATION EXPENSES, BROUGHT OR MADE AGAINST OR INCURRED BY ANY OF THE INDEMNITEES RESULTING FROM OR ARISING OUT OF THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF SUPPLIER, ITS EMPLOYEES, AGENTS, REPRESENTATIVES OR SUBCONTRACTORS OF ANY TIER, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OR NONPERFORMANCE OF SUPPLIER'S OBLIGATIONS UNDER THIS CONTRACT OR IN ANY WAY RELATED TO THIS CONTRACT. THE INDEMNITY OBLIGATIONS UNDER THIS ARTICLE SHALL INCLUDE WITHOUT LIMITATION:

- A. LOSS OF OR DAMAGE TO ANY PROPERTY OF COMPANY, SUPPLIER OR ANY THIRD PARTY:
- B. BODILY INJURY TO, OR DEATH OF ANY PERSON(S), INCLUDING WITHOUT LIMITATION EMPLOYEES OF COMPANY, OR OF SUPPLIER OR ITS SUBCONTRACTORS OF ANY TIER; AND
- C. CLAIMS ARISING OUT OF WORKERS' COMPENSATION, UNEMPLOYMENT COMPENSATION, OR SIMILAR SUCH LAWS OR OBLIGATIONS APPLICABLE TO EMPLOYEES OF SUPPLIER OR ITS SUBCONTRACTORS OF ANY TIER.

SUPPLIER'S INDEMNITY OBLIGATIONS OWING TO INDEMNITEES UNDER THIS ARTICLE ARE NOT LIMITED BY ANY APPLICABLE INSURANCE COVERAGE IDENTIFIED IN ARTICLE 19, INSURANCE. SUPPLIER'S INDEMNITY OBLIGATION UNDER THIS ARTICLE SHALL NOT EXTEND TO ANY LIABILITY CAUSED BY THE NEGLIGENCE OF ANY OF THE INDEMNITEES.

THE INVALIDITY, IN WHOLE OR IN PART, OF ANY OF THE FOREGOING PARAGRAPHS WILL NOT AFFECT THE REMAINDER OF SUCH PARAGRAPH OR ANY OTHER PARAGRAPHS IN THIS ARTICLE.

COMPANY AGREES TO IDEMNIFY, DEFEND AND HOLD HARMLESS SUPPLIER AND ITS OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS (HEREINAFTER COLLECTIVELY "SUPPLIER INDEMNITEES") AGAINST AND FROM ANY AND ALL CLAIMS, DEMANDS, SUITS, LOSSES, COSTS AND DAMAGES, INCLUDING REASONABLE ATTORNEYS' FEES AND/OR LITIGATION EXPENSES, FOR OR ON ACCOUNT OF BODILY INJURY TO, OR DEATH OF ANY PERSON(S), INCLUDING WITHOUT LIMITATION EMPLOYEES OF COMPANY, OR OF SUPPLIER OR ITS SUBCONTRACTORS OF ANY TIER, OR LOSS OF OR DAMAGE TO ANY PROPERTY OF SUPPLIER OR OTHERS RESULTING FROM OR ARISING OUT OF THE NEGLIGENT ACTS OR OMISSIONS OF COMPANY, ITS OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, REPRESENTATIVES OR SUBCONTRACTORS OF ANY TIER, THEIR OFFICERS DIRECTORS, EMPLOYEES, AGENTS OR REPRESENTATIVES.

#### ARTICLE 21. WAIVER OF CONSEQUENTIAL, INCIDENTAL AND PUNITIVE DAMAGES

EXCEPT WITH RESPECT TO LIQUIDATED DAMAGES INCLUDED WITHIN A PURCHASE ORDER IN ACCORDANCE WITH ARTICLE 4, PERIOD OF PERFORMANCE, BUT NOTWITHSTANDING ANY OTHER PROVISION TO THE CONTRARY IN THE CONTRACT, AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL EITHER COMPANY OR SUPPLIER BE LIABLE TO THE OTHER FOR CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES.

#### ARTICLE 22. [INTENTIONALLY DELETED]

#### ARTICLE 23. SUPPLIER'S PERSONNEL; DRUGS, ALCOHOL AND FIREARMS

Supplier shall employ in the performance of the Work only persons qualified for the same. Supplier shall at all times enforce strict discipline and good order among its employees and the employees of any Subcontractor of any tier. Supplier shall not permit or allow the introduction or use of any firearms, illegal drugs or intoxicating liquor upon a Company Work Site or any other location where Materials are to be delivered. Supplier shall immediately remove from the Work, whenever requested by Company, any person considered by Company to be incompetent, insubordinate, careless, disorderly, in violation of the above restriction on firearms, illegal drugs or intoxicating liquor, or under the influence of illegal drugs or intoxicating liquor, and such person shall not again be employed in the performance of the Work herein without the written consent of Company.

#### ARTICLE 24. SUBSTANCE ABUSE; DRUG AND ALCOHOL POLICY

Supplier shall have in place and ensure compliance with a substance abuse/drug and alcohol policy that complies with all applicable federal, state and/or local statutes and regulations. Supplier represents and warrants that Supplier and all Personnel engaged in performing Work for or providing Materials to Company hereunder are in compliance with Supplier's substance abuse/drug and alcohol policy. During the term of this Contract, Supplier shall keep accurate and detailed documentation of its drug policy and all Personnel drug tests, which it shall submit to Company upon request. Supplier shall designate one person to be responsible for compliance with the requirements of this Article and all reporting and inquiries shall be made to a duly authorized representative of Company in a timely manner.

#### ARTICLE 25. DEPARTMENT OF TRANSPORTATION

Supplier shall ensure Department of Transportation compliance, including but not limited to valid driver's license, equipment inspections, hours of service and all appropriate documentation for any Personnel who may drive while performing Work under this Contract.

#### **ARTICLE 26. BUSINESS ETHICS**

Supplier, its employees, officers, agents, representatives and Subcontractors shall at all times maintain the highest ethical standards and avoid conflicts of interest in the performance of Supplier's obligations under this Contract. In conjunction with its performance of the Work, Supplier and its employees, officers, agents and representatives shall comply with, and cause its Subcontractor and its employees, officers, agents and representatives to comply with, all applicable laws, statutes, regulations and codes prohibiting bribery, corruption, kick-backs or similar unethical practices including, without limitation, the United States Foreign Corrupt Practices Act, the United Kingdom Bribery Act 2010, and the Company Code of Business Conduct. Without limiting the generality of the foregoing, Supplier specifically represents and warrants that neither Supplier nor any Subcontractor, employees, officers, representatives or other agents of Supplier have made or will make any

payment, or have given or will give anything of value, in either case to any government official (including any officer or employee of any governmental authority) to influence his, her, or its decision or to gain any other advantage for Company or Supplier in connection with the Work to be performed hereunder. Supplier shall maintain and cause to be maintained effective accounting procedures and internal controls necessary to record all expenditures in connection with this Contract and to verify Supplier's compliance with this Article. Company shall be permitted to audit such records as reasonably necessary to confirm Supplier's compliance with this Article. Supplier shall immediately provide notice to Company of any facts, circumstances or allegations that constitute or might constitute a breach of this Article and shall cooperate with Company's subsequent investigation of such matters. Supplier shall indemnify and hold Company harmless for all fines, penalties, expenses or other losses sustained by Company as a result of Supplier's breach of this provision. The Parties specifically acknowledge that Supplier's failure to comply with the requirements of this Article shall constitute a condition of default under this Contract.

#### ARTICLE 27. SAFETY AND WORK SITE REGULATIONS

Supplier, when performing any Work or delivering Materials at a Company Work Site or other designated location, shall abide by and adhere to the Company Work Site and safety regulations and requirements, if any, including without limitation environmental protection, loss control, dust control, safety, and security.

Supplier and its Personnel, of any tier, shall maintain accurate and current safety records consistent with industry practice during the performance of Work under this Contract. Supplier and its Personnel, of any tier, shall immediately, and in no event more than twenty-four (24) hours, report to Company all cases of death or injury to any Personnel or any other third-parties during or related to the performance of Work under this Contract. Further, Supplier shall immediately notify, and in no event more than twenty-four (24) hours, report to Company any vehicle accident, OSHA recordable safety incident, or any safety citation issued by any governmental authority. Within forty-eight (48) hours of any safety incident reported to Company, Supplier shall provide Company representative with a preliminary, written accident investigation report detailing the facts of the incident, any known root cause, and action steps being taken by Supplier to further investigate the incident and mitigate future occurrences.

#### **ARTICLE 28. LIENS**

Supplier hereby waives its rights to any mechanic's lien, security interest or other lien under any applicable statutes or otherwise for all Materials furnished in connection with this Contract. Prior to Supplier's receipt of each payment under this Contract, Supplier shall (if requested by Company) deliver to Company all affidavits, lien releases, materialmen's certificates and other documents necessary to fully protect Company under the applicable lien laws. If at any time there shall be evidence of the existence of any such lien or claim for Materials furnished by Supplier or any other party in connection with the Contract, Company may use payments then due or to become due under this Contract to discharge such lien or satisfy such claim and may credit such amount against the payment due or to become due to Supplier.

#### ARTICLE 29. CONFLICTS, ERRORS, OMISSIONS, OR DISCREPANCIES IN CONTRACT DOCUMENTS

Supplier shall advise Company in writing of all conflicts, errors, omissions, or discrepancies among the various documents comprising this Contract immediately upon discovery and prior to Supplier's performing the affected Work. Company shall resolve such conflicts and such resolution shall be final. Anything mentioned in the Specifications and not shown on the drawings, or shown on the drawings and not mentioned in the Specifications, shall be considered as if shown or mentioned in both.

#### ARTICLE 30. CLAIM NOTICE AND RESOLUTION PROCEDURE

In the event Supplier has a claim or request for a time extension, additional compensation, any other adjustment of the Contract terms, or any dispute arising under the Contract (hereinafter "Claim"), Supplier shall provide Company with Notice of such Claim within thirty (30) calendar Days following the occurrence of the event giving rise to the Claim. Supplier's failure to give Notice as required will constitute a waiver of all of Supplier's rights with respect to the Claim.

As soon as practicable after Claim notification, Supplier shall submit the Claim to Company with all supporting information and documentation. Supplier shall also respond promptly to all Company inquiries about the Claim and its basis.

Any Claim that is not disposed of by mutual agreement between the Parties shall be decided by Company, which shall provide a written decision to Supplier. Such decision shall be final unless Supplier, within thirty (30) days after such receipt of Company's decision, provides to Company a written protest, stating clearly and in detail the basis thereof. Supplier's failure to protest Company's decision within that time period shall constitute a waiver by Supplier of its right to dispute the decision. Even if a Claim arises, Supplier shall continue its performance of this Contract.

#### ARTICLE 31. SUSPENSION OF WORK

Company may, by written Notice, direct Supplier to suspend deliveries of Materials or performance of any or all of the Work under any Purchase Order for a specified period of time. If such suspension is not caused by the fault or negligence of Supplier, Supplier will be compensated for extra costs in accordance with the provisions set forth in ARTICLE 30, CLAIM NOTICE AND RESOLUTION PROCEDURE. Upon receipt of such Notice to suspend, Supplier shall: (i) discontinue production of the applicable Materials; (ii) place no further orders or subcontracts with respect to the suspended Materials or Work; (ivi) protect and maintain the all Materials for which the suspension applies; and (v) otherwise mitigate Company's costs and liabilities for those Materials or Work suspended; provided, however, that if the suspension is due to Supplier's failure to comply with the Contract or applicable Purchase Order, no such payment shall be made.

#### **ARTICLE 32. TERMINATION FOR CONVENIENCE**

Either Party may terminate this Contract, in whole or in part, at any time without cause prior to the expiration of the Term by sending the other Party one hundred and eighty (180) days advance written notice of such termination. Upon such termination Company shall pay Supplier, in full satisfaction and discharge of all liabilities and obligations owed Supplier, an equitable amount for all Materials delivered and received by Company and Work satisfactorily performed by Supplier as of the date of termination.

At any time prior to delivery of the Materials ordered under a particular Purchase Order, Company may, without cause, terminate the Purchase Order in whole or in part by sending to Supplier written electronic notice of such termination. Upon such termination, Company may pay to Supplier an equitable termination fee, to address Subcontractor termination charges and other out-of-pocket costs incurred by Supplier as the result of the termination provided that such costs cannot be reasonably mitigated. Company will not be liable for anticipated profits or overhead based upon Work not yet performed as the date of termination.

#### **ARTICLE 33. TERMINATION FOR CAUSE**

Should Supplier fail to promptly or properly perform the Work or any part thereof in accordance with the terms of this Contract, Company may terminate Supplier's right to proceed with the Work. Such termination will be subject to Supplier's receiving forty-eight (48) hour written notice from Company, and Supplier's failure to commence and pursue with due diligence the remedying of any default identified by Company. Additionally, the occurrence of any of the following shall give Company the right to terminate the Contract upon written notice to Supplier: (i) the filing by or against Supplier of a proceeding under any bankruptcy or similar law, unless such proceeding is dismissed within thirty (30) days from the date of filing; (ii) the making by Supplier of any assignment for the benefit of creditors; (iii) the filing by or against Supplier for a proceeding for dissolution or liquidation, unless such proceeding is dismissed within thirty (30) days from the date of filing; (iv) the appointment of or the application for the appointment of a receiver, trustee or custodian for any material part of Supplier's assets unless such appointment is revoked or dismissed within thirty (30) days from the date thereof; (v) the attempt by Supplier to make any adjustment, settlement or extension of its debts with its creditors generally; (vi) the insolvency of Supplier; or (vii) the filing or recording of a notice of lien or the issuance or the obtaining of a levy of execution upon or against a material portion of Supplier's assets, unless such lien or levy of execution is dissolved within thirty (30) days from the date thereof.

Upon the occurrence of any such default, following the applicable process described in this Article, Company shall be entitled to pursue any and all other rights and remedies, including without limitation damages (except to the extent specifically limited by this Contract), that Company may have against Supplier under this Contract or at law or in equity. All rights and remedies provided in this Article are cumulative, and are not exclusive of any other rights or remedies that may be available, whether provided by law, equity, statute or otherwise.

#### **ARTICLE 34. DELAYS**

Force Majeure. Neither Party shall be liable for delays caused by a Force Majeure Event; provided, however, that both Parties agree to seek to mitigate the potential impact of any such delay. Any delay attributable to a Force Majeure Event shall not be the basis for a request for additional compensation. In the event of any such delay, the guaranteed delivery date may be extended for a reasonable period not exceeding the time actually lost by reason of the Force Majeure Event. The imposition of any liquidated damages, if applicable, for late delivery of the Materials shall be extended by an amount of time equivalent to the length of time for the Force Majeure Event.

Request for Time Extension. Any request for time extension or additional compensation shall be made in accordance with ARTICLE 30, CLAIM NOTICE AND RESOLUTION PROCEDURE.

#### ARTICLE 35. COMPLIANCE WITH LAWS

Supplier shall at all times comply with all laws, statutes, regulations, rules, ordinances, codes, and standards applicable to Supplier's performance of the Work including without limitation those governing wages, hours, desegregation, employment discrimination, employment of minors, health and safety. Supplier confirms that its employees and the employees of all Subcontractors employed under the Contract may legally work in the United States.

Without limiting the generality of the foregoing, Supplier and any Subcontractors shall abide by the requirements of 41 CFR §§60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability. Supplier and any Subcontractors shall also abide by the requirements of Executive Order 11246, as amended, to develop and maintain a written affirmative action program (AAP) and Executive Orders 11625 and 13170 (utilization of disadvantaged business enterprises) and the Small Business Act.

Supplier shall indemnify, defend and hold harmless Company, all Affiliates and their directors, officers, employees and agents from all losses, costs and damages by reason of any violation thereof and from any liability, including without limitation fines, penalties and other costs arising out of Supplier's failure to so comply.

#### ARTICLE 36. CONFLICT MINERALS

Supplier shall provide to Company information on the content of products, manufactured or contracted to be manufactured by Supplier for Company, that utilize or contain the "conflict minerals" wolframite, casserite, columbite-tantalite (coltan), gold and their derivative metals: tantalum, tin and tungsten. The information will be provided in a form that will allow Company to verify compliance with Section 1502 of the Dodd-Frank Act (the U.S. Conflict Minerals Law) and will include evidence of the origin or sources of the conflict minerals. The information will be submitted at or prior to the time of delivery of products in a form approved and/or designated by Company from time to time.. Supplier shall obtain Company's prior written consent before providing any products to Company that include conflict minerals originated from the Democratic Republic of Congo or the nine adjoining conflict countries; Angola, Burundi, Central African Republic, the Republic of the Congo, Rwanda, South Sudan, Tanzania, Uganda, and Zambia. Supplier shall maintain effective accounting procedures, internal controls and audit procedures necessary to record the country and place of origin of all minerals included in products provided to Company, and to verify compliance with this Article. Company shall be permitted to audit such records as reasonably necessary to confirm Supplier's compliance with this Article. Supplier shall indemnify and hold Company harmless for all fines, penalties, expenses or other losses sustained by Company as a result of Supplier's breach of this Article.

#### ARTICLE 37. INDEPENDENT CONTRACTOR

Supplier is an independent contractor, and all persons employed by Supplier in connection herewith shall be employees of Supplier and not employees of Company in any respect. Supplier shall maintain complete control over Supplier's employees.

#### ARTICLE 38. RELEASE OF INFORMATION; ADVERTISING AND PROMOTION

Supplier shall not publish, release, disclose or announce to any member of the public, press, official body or any other third party any information concerning this Contract, a Purchase Order and/or the Work, or any part thereof, except as required by law. Neither the names of Company, nor Company Work Site, nor any other delivery location designated by Company shall be used in any advertising or other promotional context by Supplier.

#### ARTICLE 39. CONFIDENTIAL INFORMATION; NONDISCLOSURE

<u>Definition of Confidential Information</u>. The term "Confidential Information" means: (i) proprietary information of Company; (ii) information marked or designated by Company as confidential; (iii) Critical Infrastructure Information and Protected Information of Company; (iv) information, whether or not in written form and whether or not designated as confidential, which is known to Supplier as being treated by Company as confidential; (v) information provided to Company by third parties which Company is obligated to keep confidential (including but not limited to information relating to an identified or identifiable natural person, whether or not such information is publicly available); and (vi) information developed by Supplier in connection with the performance of this Contract.

<u>Nondisclosure</u>. Supplier agrees that it will not disclose Confidential Information, directly or indirectly, under any circumstances or by any means, to any third person without the express written consent of Company.

Nonuse. Supplier further agrees that it will not use Confidential Information except as may be necessary to perform the Work called for by this Contract.

<u>Protection</u>. Confidential Information will be made available by Supplier to its employees only on a "need to know" basis and only after notifying such employees of the confidential nature of the information and after having obligated them to the nonuse and nondisclosure obligations of this Contract. Supplier agrees to take all reasonable precautions to protect the confidentiality of Confidential Information and, upon request by Company, to return to Company any documents which contain or reflect such Confidential Information.

Unless waived by Company, Supplier shall require its employees and Subcontractors of any tier to adhere to these confidential information and nondisclosure terms.

#### ARTICLE 40. OWNERSHIP OF DESIGNS, DRAWINGS AND WORK PRODUCT

To the extent applicable, the Deliverables prepared or developed hereunder, or other documents or information provided to Company, by Supplier or its employees or agents, or Subcontractors or their employees or agents, including without limitation drawings, specifications, manuals, calculations, maps, sketches, designs, tracings, notes, reports, data, computer programs, models and samples, shall become the property of Company when prepared, and shall, together with any documents or information furnished to Supplier and its employees or agents by Company hereunder, shall be delivered to Company upon request, and, in any event, upon termination or final acceptance of the Work. Company shall have full rights and privileges to use and reproduce said items in its operation, maintenance, improvement and replacement of Company's assets, and shall have full rights and privileges to share the same with its contractors, agents, officers, directors, employees, joint owners, affiliates and consultants who are assisting Company with same, without regard to any markings that may denote a confidential or proprietary interest in the said items. To the extent that any Deliverables include or incorporate preexisting intellectual property of Supplier, Supplier hereby grants Company a fully paid, perpetual license to use such intellectual property for Company's operation, maintenance, modification, improvement and replacement of the Company's assets the fullest extent necessary to accomplish those purposes, including the right to share same with Company's contractors, agent, officers, directors, employees, joint owners, affiliates and consultants. Promptly upon Company's request, Supplier shall provide all tools and information (including without limitation applicable passwords and authorization codes) necessary to ensure Company receives the full benefit of the Work.

#### ARTICLE 41. PATENT AND COPYRIGHT INDEMNITY

Supplier shall indemnify, defend, and hold harmless Company, its directors, officers, employees, and agents against and from all claims, losses, costs, suits, judgments, damages, and expenses, including attorneys' fees, of any kind or nature based on a claim that the Materials and Deliverables constitute an infringement of any patent, copyrighted or uncopyrighted work. If notified promptly in writing and given authority, information and assistance, and contingent upon Company not taking any position adverse to Supplier in connection with such claim, Supplier

shall defend, or may settle at its expense, any suit or proceeding against Company so far as based on a claimed infringement and Supplier shall pay all damages and costs awarded therein against Company due to such breach.

In case any Materials or Deliverables are determined in such suit to constitute such an infringement and the use of said Materials or Deliverables are enjoined, Supplier shall, at its expense and through mutual agreement between Company and Supplier, either procure for Company the right to continue using said Materials or Deliverables, replace same with non-infringing materials or modify the same so it becomes non-infringing.

#### ARTICLE 42. ELECTRONIC COMMERCE

In addition, Company is open to maximizing the cost effective utilization of standards based electronic commerce technologies, compatible with legacy computer systems, including but not limited to requirements for desk top ordering, cataloging, documentation, payments, and performance monitoring.

In the event Supplier has implemented electronic commerce capabilities, Supplier shall ensure such electronic commerce (e-commerce website) interface shall be available to Company.

Supplier's (and its Subcontractor's) Lead Times for Materials shall be stated in any available e-commerce website. At a minimum, Supplier shall update the Lead Times on a quarterly basis or as changes in Lead Times are known to Supplier. Supplier Lead Times shall be no greater than those agreed in the Contract.

Supplier and its Subcontractors shall provide Company with 24-hour a day access to Supplier web based catalog and electronic documentation library. Supplier's electronic commerce business model shall include: (i) processes for electronic invoicing and payment systems; (ii) development of an electronic inspection library for certificates, test reports, shipment release documents, etc.; (iii) tracking and tracing of Company shipments from its Suppliers; and (iv) electronic links to its Suppliers engineering files, drawings, documentation, installation/operations manuals, and product alerts.

Supplier electronic commerce platform should support a seamless interface with any e-commerce enterprise platform specified by Company. Supplier shall keep an electronic historical file of all transactions executed under this Contract and shall maintain such records for the duration of this Contract plus an additional three (3) years. Supplier shall have a computerized inventory and/or production management system and/or Purchase Order tracking/expediting system, capable of interfacing with Company systems.

#### **ARTICLE 43. ASSIGNMENT**

Neither Party shall assign this Contract or any part hereof, or any rights or responsibilities hereunder without the prior written consent of the other Party, and any attempted assignment in violation hereof shall be void.

#### ARTICLE 44. SUBCONTRACTS

Supplier shall not subcontract any or all of the Work without prior written consent of Company, which shall not be unreasonably withheld. Supplier shall be fully responsible for the acts or omissions of any Subcontractors of any tier and of all persons employed by them, shall maintain complete control over all such Subcontractors, and neither the consent by Company, nor anything contained herein, shall be deemed to create any contractual relation between the Subcontractor of any tier and Company.

#### **ARTICLE 45. NONWAIVER**

The failure of either Party to insist upon or enforce strict performance by the other of any of the terms of this Contract, or to exercise any rights herein shall not be construed as a waiver or relinquishment to any extent of the Party's right to enforce such terms or rights on any future occasion.

#### ARTICLE 46. SEVERABILITY

Any provision of this Contract prohibited or rendered unenforceable by operation of law shall be ineffective only to the extent of such prohibition or unenforceability without invalidating the remaining provisions of this Contract.

#### ARTICLE 47. APPLICABLE LAW AND VENUE

In the event of any matter or dispute arising out of or related to a Contract, it is agreed between the Parties that such Contract shall be interpreted in accordance with the substantive and procedural laws (including statute of

limitations provisions) of the jurisdiction of the principal business address of the applicable Company. With respect to Affiliates, this shall mean the principal business address of the Affiliate as identified in Exhibit \_\_\_. The laws of such jurisdiction will govern the interpretation, validity and effect of this Contact without regard to the place of execution, place of performance thereof, or any conflicts of law provisions. Any litigation between the Parties arising out of or relating to the Contract will be conducted exclusively in appropriate courts of such jurisdiction, and Supplier consents to jurisdiction by such courts.

TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THE CONTRACT. EACH PARTY FURTHER WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED.

ARTICLE 48. FOR WORK PERFORMED IN CALIFORNIA, THE FOLLOWING JURY TRIAL WAIVER AND ARBITRATION PROVISION APPLIES. TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS CONTRACT. EACH PARTY FURTHER WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED. IF A WAIVER OF JURY TRIAL IS DEEMED BY ANY COURT OF COMPETENT JURISDICTION TO NOT BE ENFORCEABLE FOR ANY REASON, THEN TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO AGREE TO BINDING ARBITRATION. SUCH ARBITRATION SHALL BE IN ACCORDANCE WITH THE RULES AND PROCEDURES OF THE AMERICAN ARBITRATION ASSOCIATION (AAA). NOTWITHSTANDING ANY AAA RULES AND PROCEDURES, OR ANY OTHER PROVISION OF ANY STATE OR FEDERAL LAWS, THE PARTIES AGREE THAT THE ARBITRATORS SHALL NOT CONSIDER OR AWARD PUNITIVE DAMAGES AS A REMEDY. UPON THE COMPANY'S REQUEST, AAA SHALL PROVIDE THE PARTIES A LIST OF ARBITRATORS EACH OF WHOM HAVE EXPERIENCE AND EXPERTISE APPLICABLE TO THE WORK. UPON EACH OF THE PARTIES' RECEIPT OF SUCH LISTS, EACH PARTY SHALL HAVE TEN (10) DAYS TO SELECT AN ARBITRATOR. THE TWO SELECTED ARBITRATORS SHALL THEN SELECT A THIRD ARBITRATOR WITHIN THIRTY (30) DAYS FROM THE DATE THE INITIAL TWO ARBITRATORS WERE SELECTED AND THE MATTER SUBJECT TO ARBITRATION SHALL BE ARBITRATED WITHIN SIXTY (60) DAYS AFTER THE SELECTION OF THE THIRD ARBITRATOR.

#### ARTICLE 49. **EQUIPMENT FUND**

As consideration for this Contract, Supplier hereby agrees to provide Company the following:

A one-time \$250,000 equipment fund ("Equipment Fund") to be used solely by Company for improving lubrication best practices. These funds are intended for use for projects such as setting up bulk storage tanks and totes, and lubricant storage room upgrades.

With regard to the funds above, Company shall submit to Supplier: (i) a request for the projects to be implemented by the participating Affiliates for approval prior to initiating any project, such approval not to be unreasonably delayed or denied; and (ii) the receipt or invoice documenting the project expenditure. Reimbursement by Supplier shall be made to Company within thirty (30) days of receiving the written proof of payment. The above funds are available for use during the term of this Contract and are to be used exclusively by the participating Affiliates in accordance herein. Further, the funds cannot be used for purchase of Product. Supplier reserves the right to audit Company's usage of the above fund amounts. Company shall not be entitled to claim and Supplier shall not be liable to convey any unused fund amounts remaining at time of termination or expiration of this Contract. Fund payments hereunder are subject to the amortization schedule attached hereto and incorporated herein as Exhibit B.2. Upon early termination of the Contract, Company shall reimburse Supplier on a pro-rated basis in accordance with the Exhibit B.2 schedule.

#### ARTICLE 50. ENTIRE CONTRACT; DOCUMENTS INCORPORATED BY REFERENCE

This Contract and any referenced exhibits, appendices, schedules and attachments constitute the complete agreement between the Parties. All understandings, representations, warranties, agreements and any referenced attachments, if any, existing between the Parties regarding the subject matter hereof are merged into and superseded by this Contract, which fully and completely expresses the agreement of the Parties with respect to the subject matter hereof. Any Specifications, drawings, schedules or other exhibits or documents listed in this Contract,

including applicable Purchase Orders issued pursuant to the terms hereof, are incorporated by reference into this Contract.

In the event of a conflict between (i) any Specifications, Deliverables, drawings, schedules or other attachment or exhibit to this Contract, and (ii) the above terms and conditions of this Contract, the above terms and conditions of this Contract shall take precedence and control.

Company assumes no responsibility for any understanding or representation made by any of its employees, officers or agents during or prior to the negotiations and execution of this Contract, unless such understanding or representation is expressly stated in the Contract.

The Parties intend that the terms and conditions of this Contract, its referenced attachments, and any Purchase Order that may be issued relating to this Contract should be complementary with each other; however, in the event of a conflict between the terms and conditions of any Purchase Order and those of the Contract, the terms and conditions of this Contract shall take precedence and control over any Purchase Order; provided, however, that where this Contract indicates commercial terms that may be amended by the Purchase Order, the Purchase Order shall be deemed to govern with respect to such conflicting commercial terms.

#### ARTICLE 51. EXECUTION AND EFFECTIVE DATE

Title:

(Date Executed)

date of execution by Company.	
SUPPLIER: /	COMPANY:
Phillips 66 Company	Berkshire Hathaway Energy Company
By: My Mly	By:
(Signature)	(Signature)
Name: Beyon talia.	Narmaureen E. Sammon
(Type or Print)	Sr. VP and Chilef Administrative Onice
	Of AL die concentration

This Contract has been executed by duly authorized representatives of the Parties and shall be effective as of

Title:

## EXHIBIT A MATERIALS AND SPECIFICATIONS LUBRICATION SUPPLY

Supplier shall provide Materials to Company in accordance with Exhibit(s) B and the following.

#### **Company and Supplier Locations**

Supplier shall deliver Materials to the Company locations identified in Appendix 4 or to other locations as may be specified by Company. Although Appendix 4 identifies the Supplier office nearest to each Company location, Company shall have the option to work with any Supplier office it so chooses.

#### **Delivery**

Standard Order Lead Times – All Stock Items are expected to be delivered within 5 business days, excluding the day the order is placed. All Non-Stock or Specialty Items are expected to be delivered within 7 working days, excluding the day of order placement.

- Stock Items: Are considered as all packaged products including drums, totes, pails, and cases.
- Non-Stock Items (or Specialty Items): Are considered as bulk turbine oils and bulk Transformer Oil.
- Emergency Order Fees: In the instances where Supplier is expected to deliver a Stock Item in less than the standard 5 business days, Supplier reserves the right to add a \$100.00 emergency fee to such orders. In instances where bulk turbine oils are expected to be delivered in less than the required 7 business days, Supplier reserves the right to add a \$1,500.00 emergency fee to such orders. Any special freight or handling charges incurred by Supplier due to emergency procedures shall be relayed to Berkshire Energy for approval prior to shipment.

All deliveries shall occur during normal hours of operation (local time) for the applicable delivery location and be pre-approved and coordinated with the appropriate delivery site prior to delivery. Alternatively, the Parties may agree to coordinate regularly scheduled delivery times or to schedule deliveries outside of normal hours of operation.

Supplier acknowledges that certain Company locations have pre-planned overhauls or major projects that may require greater assistance, support, and more Materials than standard operating needs. Supplier agrees to support such requirements.

The Parties agree and understand that there may be extenuating or emergency circumstances which require delivery requirements outside of the parameters set forth above. The Parties agree to work together to mitigate the impacts of such extenuating or emergency circumstances and shall work together to coordinate all other deliveries.

#### Communication

Supplier agrees to assign a single and primary point of contact to manage Company's account (includes all Affiliates). Responsibilities of such contact shall include but not be limited to: serving as a point of escalation for problem resolution, co-coordinating reporting efforts, managing broad communication efforts, addressing pricing issues, and general account management duties.

Supplier will be available during normal business hours 0700 to 1700 local time Monday through Friday and will handle all standard work issues during such time. However, Supplier shall also be available twenty four (24) hours a day, seven (7) days a week to provide parts and services to Company under any extenuating or emergency circumstances.

(Refer to Contract Article 3, Purchase Orders of the contract for order confirmation requirements.)

Appendix 3 contains Company and Supplier and contacts for each location. Changes to such contact listing may be updated from time to time by the Parties as necessary and shall not require a formal written notice or change order.

#### **Identification and Cross Reference of Materials**

Supplier shall ensure and provide proof, when requested, of ability of Material to be interchangeable with incumbent manufactures.

If requested by Company, Supplier shall provide specific information to Company regarding Materials including country of origin and manufacturing locations.

Supplier shall assist Company in cross referencing existing components at Company locations with approved manufacturers. Supplier shall expedite resolution of compatibility and fit issues on recommended replacement components. Supplier shall adequately assure Company material management and maintenance departments that recommended alternative products can be installed without modification to Company systems.

#### Meetings

Integrated supply chain meetings shall be held as deemed necessary by the Company, but normally shall not be more than once per quarter. Past and future supply performance will be utilized to review the production and supply schedule and discuss any delays, unusual conditions or critical items, which have affected or could affect production capacity and/or delivery performance.

#### Reporting

As requested by Company, Supplier shall provide to Company within five (5) business days the following reports:

- a. Total Company or Affiliate spend over a given time period
- b. Total spend by plant or location over a given time period
- c. Total spend by user over a given time period
- d. Total spend by plant or location over a given time period (specified by material)
- e. Total usage by Company or Affiliate (specified by material)
- f. Total usage by plant or location (specified by material)
- g. Total usage by user (specified by material)

#### **Electronic Commerce**

Refer to Article 42 of the Contract for electronic commerce requirements.

#### **Material Packaging**

Unless otherwise agreed to by the Parties, Company requires the following packaging requirements:

A packing list for materials received by Company must be provided with each shipment. The packing list shall 1) include, at minimum, the information listed below and 2) have such information (except for employee name) encoded in a barcode(s).

- Company material or stock item number
- PO number and/or release number
- PO Line Item Number
- · Quantity shipped
- Manufacturer name and catalog number
- Name of Company employee that placed the order

Each carton must be labeled with the following information:

- Company's material item number (barcode and character data)
- Short description of the item
- Quantity (barcode and character data)
- Unit of measure
- P. O. number and/or release number

Each carton or standard package must be identified with the specified barcode material label.

#### Packaging:

- All Material received at Company locations must be packaged for easy identification and sorting as follows:
- Each product will be packaged separately in individual bags or boxes and marked with Supplier's part number, manufacture part number, size and description, and Company Purchase Order number and stock number (where applicable).
- All orders will be separated and grouped together by Purchase Order number.
- Company and Supplier will agree on items that will require full case quantities.
- Partial order shipments on critical products are encouraged. Supplier shall ship stocked quantities immediately. Supplier shall fill backorders when the additional material arrives. Supplier shall not hold orders until they are complete.
- Supplier shall clearly mark on the exterior of the box what is inside the box. Ideally, the stock number and quantity should be on the exterior of the box.
- Packing sheets shall be clearly identified, and easy to find.
- Supplier shall not place loose or small objects inside large boxes. Supplier shall clearly identify loose material.
- Supplier shall mark fragile materials clearly on the outside of boxes and package accordingly.
- Where possible, Supplier shall use heavy cardboard boxes for shipments.

### General

Company shall have the right at any time to change the requirements set forth in Exhibits A as necessary to ensure that all Company requirements are met.

For technical specifications, please refer to the following:

Attachment 1 – PacifiCorp Lube Oil Technical Specification

Attachment 2 – MidAmerican Energy Lube Oil Technical Specification

### Appendix 1

#### to Master Materials Supply Contract

# SPECIAL CONDITIONS APPLICABLE TO PACIFICORP CIPS COVERED ASSETS AND CRITICAL INFRASTRUCTURE INFORMATION NERC CIPS REQUIREMENTS

## NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC) CRITICAL INFRASTRUCTURE PROTECTION STANDARDS (CIPS)

Capitalized terms used herein shall have the same meaning as set forth in the Contract, unless the context may otherwise require.

#### **Defined Terms:**

The terms used in these Special Conditions applicable to PacifiCorp shall have the following meaning:

Company's Criteria shall mean applicable requirements used as the baseline for determining whether an individual is a restricted person, as set forth on Schedule 1, "Background Check Criteria."

Company's Facilities shall mean any facilities owned, operated or otherwise controlled by Company, which require Company authorization to obtain access.

Critical Infrastructure Information shall mean information concerning CIPS Covered Assets that: (i) relates to the production, generation or transmission of energy; (ii) could be useful to a person planning an attack on critical infrastructure; and (iii) provides strategic information beyond the geographic location of the critical asset, and which is identified as Critical infrastructure Information by Company.

Sensitive Personnel shall mean all Personnel with authorized unescorted physical access or authorized cyber access to Company's CIPS Covered Assets.

Unescorted Personnel shall mean all Personnel with authorized unescorted physical access to Company's Facilities.

#### SECTION 1: ACCESS TO COMPANY'S FACILITIES

#### 1.1 Requirements for Unescorted Personnel and Sensitive Personnel

Company shall specify in the Scope of Work whether or not the Work or Services under this Contract requires: (i) authorized unescorted physical access to Company's Facilities (i.e., use of Unescorted Personnel); or (ii) authorized unescorted physical access or authorized cyber access to Company's CIPS Covered Assets (i.e., use of Sensitive Personnel). For all Personnel who require such access, Supplier shall:

- (a) Ensure that Unescorted Personnel and Sensitive Personnel have passed the background checks outlined in <u>subsection 1.3(a)</u> consistent with the Company's Background Check Criteria set forth on <u>Schedule 1</u> prior to requesting unescorted physical access and/or cyber access to Company's Facilities and/or CIPS Covered Assets, as applicable;
- (b) Ensure that Unescorted Personnel and Sensitive Personnel complete Company provided or approved initial CIPS compliance training prior to requesting unescorted physical access and/or cyber access to Company's Facilities and/or CIPS Covered Assets, as applicable;
- (c) Ensure that Unescorted Personnel and Sensitive Personnel have passed Supplier's drug and alcohol exam and are in compliance with Supplier's substance abuse/drug and alcohol policy as outlined in Section 2; and
- (d) Keep accurate and detailed documentation to confirm completion dates for background checks, all CIPS compliance training (initial and annual training, to the extent applicable), and drug tests,

and certify to Company such documentation by completing a Contractor/Vendor Information Form, attached as Schedule 2 hereto, for each Unescorted Personnel or Sensitive Personnel.

Supplier shall not allow any Unescorted Personnel or Sensitive Personnel who have not met the foregoing requirements of this subsection 1.1 to perform Work or Services, unless Supplier has received prior written consent from Company.

#### 1.2 Additional Access Requirements Specific to Sensitive Personnel

In addition to the access requirements outlined in <u>subsection 1.1</u>, with respect to all Sensitive Personnel, Supplier also shall:

- (a) Ensure that Sensitive Personnel (and any Personnel with access to Critical Infrastructure Information) are informed of and comply with Company's Critical Infrastructure Information requirements contained in the Contract, including the additional requirements applicable to Critical Infrastructure Information set forth in Section 4 herein, and any confidentiality agreement previously executed by Supplier, if applicable;
- (b) In addition to the initial CIPS compliance training requirement outlined in <u>subsection 1.1(b)</u>, ensure that Sensitive Personnel complete Company provided or approved CIPS compliance training within Company's prescribed training window, and not less than on an annual basis; and
- (c) Immediately report both (i) Sensitive Personnel terminations for cause and (ii) all other Sensitive Personnel terminations or changes in employment status for those who no longer require access, to the Company's Technology Resource Center (TRC). The TRC is available by calling either (503) 813-5555 or (801) 220-5555.

Supplier shall not allow any Sensitive Personnel who have not met the foregoing requirements of this <u>subsection 1.2</u> to perform Work or Services, unless Supplier has received prior written consent from Company.

## 1.3 Personnel Screening/Background Check Requirements for Unescorted Personnel and Sensitive Personnel

For all Unescorted Personnel or Sensitive Personnel, the following requirements must be met by Supplier:

- (a) Supplier shall conduct, at Supplier's cost and expense, the requisite background checks for the current and past countries of residence of all Unescorted Personnel and Sensitive Personnel consistent with the Company's Background Check Criteria set forth on <a href="Schedule 1">Schedule 1</a>. All background checks will be conducted in accordance with federal, state, provincial, and local laws, and subject to existing collective bargaining unit agreements or other agreements, if any.
- (b) Following the initial background check to obtain authorization for access, the background checks shall be updated no less frequently than every seven (7) years or upon request by Company, and shall, at a minimum, consist of a social security number identity verification and seven (7) year criminal background check, including all convictions for a crime punishable by imprisonment for a term exceeding one (1) year.
- (c) Supplier shall ensure that each of the Unescorted Personnel and Sensitive Personnel sign an appropriate authorization form prior to background checks being conducted, acknowledging that the background check is being conducted, and authorizing the information obtained to be provided to Company.
- (d) Company has the right to audit Supplier's records supporting each Contractor/Vendor Information Form, attached as Schedule 2, submitted to Company, including background check results, and to verify that the requisite background checks and drug tests were performed consistent with Company's Background Check Criteria set forth on Schedule 1. Supplier shall provide Company with all requested records supporting Contractor/Vendor Information Forms within a reasonable time after receiving such

request, and in the form requested by Company, but not longer than three (3) business days following the date of such request.

- (e) For purposes of this Contract, a background check is considered valid pursuant to the Company's Background Check Criteria, set forth on <u>Schedule 1</u>, if it was completed within two (2) years prior to the date on which the Supplier signed a Contractor/Vendor Information Form for each Unescorted Personnel and Sensitive Personnel. Regardless of when performed, all background checks shall be documented pursuant to the requirements set forth in this <u>subsection 1.3</u>.
- (f) In the event Company notifies Supplier of the impending expiration of the background check of any Unescorted Personnel or Sensitive Personnel, Supplier shall provide an updated Contractor/Vendor Information Form reflecting a refreshed background check within twenty (20) days of receipt of the notice, in order to avoid revocation of such person's access.

#### 1.4 Supplier Designee

Supplier shall designate one person to be responsible for compliance with the requirements of this <u>Section 1</u> and all reporting and inquiries (other than Sensitive Personnel terminations or changes in employment status) shall be made via e-mail to <u>CIPS-Contracting@PacifiCorp.com</u>. Sensitive Personnel terminations or changes in employment status should be reported to the TRC pursuant to subsection 1.2(c).

#### SECTION 2: SUBSTANCE ABUSE/DRUG AND ALCOHOL POLICY

#### 2.1 Drug Testing

- (a) Supplier shall have and ensure compliance with a substance abuse/drug and alcohol policy that complies with all applicable federal, state and/or local statutes and regulations. Supplier shall subject each of the Personnel to a drug test at Supplier's sole cost and expense. Such drug test shall, at a minimum, be a five (5) Panel Drug Test, which should be recognizable at testing labs as a "SamHSA5 panel at 50NG THC cut-off."
- (b) For any Personnel who have had a recent drug test, such recent drug test shall be documented pursuant to the previous paragraph. Supplier warrants that Supplier and the Personnel are in compliance with Supplier's substance abuse/drug and alcohol policy.
- (c) During the course of Work or Services performed under this Contract, Supplier shall keep accurate and detailed documentation of its drug policy and all Personnel drug tests, which it shall submit to Company upon request.
- (d) Supplier shall designate one (1) person to be responsible for compliance with the requirements of this Section 2 and all reporting and inquiries shall be made to a duly authorized representative of Company in a timely manner.

#### SECTION 3: DEPARTMENT OF TRANSPORTATION COMPLIANCE

Supplier shall ensure Department of Transportation compliance, including but not limited to valid driver's license, equipment inspections, hours of service and all appropriate documentation for any Personnel who may drive while on assignment to Company.

## SECTION 4: ADDITIONAL REQUIREMENTS APPLICABLE TO CRITICAL INFRASTRUCTURE INFORMATION

Confidential Information of Company labeled as Critical Infrastructure Information shall be protected consistent with the following requirements: (a) Critical Infrastructure Information shall be protected at all times, either by appropriate storage or having it under the personal observation and control of a person authorized to receive it; (b) each person who works with protected Critical Infrastructure Information is personally responsible for taking proper precautions to ensure that unauthorized persons do not gain access to it; (c) reasonable steps shall be taken to minimize the risks of access to Critical Infrastructure Information by unauthorized personnel (when not in use, Critical Infrastructure Information shall be secured in a secure container, such as a locked desk, file cabinet or facility where security is provided); (d) documents or material containing Critical Infrastructure Information may be reproduced to

the minimum extent necessary, consistent with the need to carry out the Work or Services, provided that the reproduced material is marked and protected in the same manner as the original material; (e) material containing Critical Infrastructure Information should be disposed of through secured shredding receptacles or other secured document destruction methods; (f) Critical Infrastructure Information shall be transmitted only by the following means: (i) hand delivery; (ii) United States first class, express, certified or registered mail, bonded courier, or through secure electronic means; (iii) e-mail with encrypted file (such as, WinZip with password) (the password should not be included in e-mail, but should be delivered by phone or in an unrelated e-mail not mentioning the document name; password-protected Microsoft Office documents do not meet the encryption requirements); and (g) documents or material containing Critical Infrastructure Information shall be returned to Company or certified destroyed upon completion of the Work or Services.

End of Appendix 1

#### Schedule 1

## SPECIAL CONDITIONS APPLICABLE TO PACIFICORP BACKGROUND CHECK CRITERIA

Company has a policy, "Badge and Access Standards," which outlines Company standards, procedures, compliance policies and workforce responsibilities regarding badges and access to all PacifiCorp controlled areas. Access to Company's Facilities is subject to this policy and requires access to be granted on an asneeded basis after completion of the required background check and training requirements.

In addition, the Company is required to comply with the mandatory Critical Infrastructure Protection Standards (CIPS) issued by the North American Electric Reliability Corporation (NERC) and approved by the Federal Energy Regulatory Commission on January 17, 2008. The CIPS were adopted to ensure that electric utilities, as part of the nation's critical infrastructure, are able to sustain and secure against vulnerabilities that may threaten the electric system and the utilities that operate it. Specifically, Standards CIP-001 through CIP-009 provide a cyber security framework for the identification and protection of assets critical to the reliable operation of the bulk electric system (i.e., CIPS Covered Assets).

In order to ensure compliance with CIPS and the Company's access policy, Company requires that all Personnel who will have authorized unescorted physical access to Company's Facilities (i.e., Unescorted Personnel) and/or authorized unescorted physical access or authorized cyber access to CIPS Covered Assets (including control centers, substations, generation plants, critical cyber assets, etc.) (i.e., Sensitive Personnel) have the appropriate security clearance and security training. A background check of Supplier's Unescorted Personnel or Sensitive Personnel will be considered valid pursuant to these Criteria if it was completed within two (2) years prior to the date the Supplier signed a Contractor/Vendor Information Form for each such person.

Individuals who are considered "restricted persons" may not have unescorted access to Company's Facilities or CIPS Covered Assets. An individual will be considered a "restricted person" if the person meets any of the following criteria:

- Is currently under indictment for a crime punishable by imprisonment for a term exceeding one (1) year;
- Has been convicted (within the past seven (7) years) in any court of a crime punishable by imprisonment for a term exceeding one (1) year;
- Is currently a fugitive from justice; or
- Is an alien illegally or unlawfully in the United States.

If an individual's background check indicates that he/she meets any of the above criteria, the individual will be considered a "restricted person" and unescorted access to Company's Facilities or CIPS Covered Assets will not be authorized.

End of Schedule 1

## Schedule 2

#### SPECIAL CONDITIONS APPLICABLE TO PACIFICORP

## Contractor / Vendor Information Form (CIF)

	Contractor / Vendor Information	
Com	pany Name:	
Addre	988:	
Phon	e: Fax:	
Contr	ractor / Vendor Name:(Include middle initial, if applicable: First, Midd	dle, Last)
(1)	Successfully Passed Employer's Drug and Alcohol Exam? Yes Date Completed:(Yes - mm/dd/yyyy)	No
	(Tes = himbodryyyy)	
(2)	Successfully Passed Employer's Background Check? Yes  Date Completed:	No
	Date Completed: (Yes – mm/dd/yyyy)	
(3)	Successfully Completed PacifiCorp's Security trainings? Yes  Date Completed:	No
	(Yes - mm/dd/yyyy)	
	ger Signature of Contractor / Vendor Employer	Date
	PacifiCorp Approvals	
Signa	ture of PacifiCorp Hiring Manager	Date
Printe	d Name of PacifiCorp Hiring Manager	
f Con	tractor / Vendor did not pass the Background Check or Drug and Alcoh ception is requested provide reason for exception:	ol Exam, but
Accen	ted by PacifiCoro Chief Compliance Officer	Date

Contractor / Vendor will not be permitted access to Company controlled areas without the completion of Drug/Alcohol, Background verifications and completion of security training. Send the completed form electronically to Corporate Physical Security at "Access Administrators" (accessadmins@pacificorp.com) for ID badge issuance. The form may be attached to a request for physical access.

**End of Schedule 2** 

## Appendix 2

#### to Master Materials Supply Contract

# Special Conditions Applicable to MidAmerican Energy Company CIPS Covered Assets and Protected Information NERC CIPS Requirements

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC) CRITICAL INFRASTRUCTURE PROTECTION (CIP) STANDARDS

Capitalized terms used herein shall have the same meaning as set forth in the Contract, unless the context may otherwise require.

## 1. PERSONNEL RISK ASSESSMENTS, TRAINING, SECURITY AWARENESS, INFORMATION PROTECTION, PERSONNEL CHANGES AND DOCUMENTATION

Supplier and all Personnel employed by or otherwise engaged by Supplier with authorized cyber or authorized unescorted physical access to Company's (hereinafter also referred to as "MidAmerican") CIPS Covered Assets and/or Protected Information, shall comply with (a) all requirements of the NERC CIP standards, including and not limited to (b) MidAmerican's Personnel Risk Assessment Program, Training Program, Security Awareness Program, and Information Protection Program, incorporated herein by this reference, or Supplier's programs for personnel risk assessment, training, security awareness and information protection, if MidAmerican has reviewed and verified and approved the same.

In conjunction with the NERC CIP standards, Supplier shall ensure NERC CIP compliance and communicate all requirements to Personnel. Supplier shall (a) conduct personnel risk assessments consisting of an identity verification (at a minimum social security verification of U.S. citizens) and seven (7) year criminal background check and provide written certification as specified in Section 2 of these Special Conditions for all Personnel (except if access is only to non-public CIP sensitivity classification Protected Information); (b) fully inform and train all Personnel on requirements of CIP standards prior to accessing CIPS Covered Assets and/or Protected Information and shall quarterly reinforce security awareness. If Supplier feels any of MidAmerican's training or security awareness materials are inappropriate or desires to use Supplier's training or security awareness materials, Supplier shall provide Notice to MidAmerican, and provide the training and/or security awareness documents and any improved practice to MidAmerican for review, verification and approval; (c) furnish MidAmerican a list that shows by name of Personnel, the completion date of each training course, and what materials were utilized; (d) furnish MidAmerican a list describing the security awareness materials used and dates and how the security materials were distributed; (e) provide MidAmerican with a list of Personnel authorized to handle MidAmerican's protected CIP information that shows Personnel's information sensitivity classification clearance level and assure Personnel adhere to Protected Information handling procedures; (f) report Personnel terminations for cause immediately to MidAmerican but not longer than twelve (12) hours from time of termination and report all other Personnel terminations or changes in employment status for those who no longer require access within twelve (12) hours from time of occurrence; and (g) keep accurate and detailed documentation to confirm compliance with requirements of NERC CIP standards as specified in Section 3 of these Special Conditions.

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Supplier shall designate one person to be responsible for compliance with the Contract requirements. Reporting relating to this section shall be to MidAmerican's designated authorized representative.

In case of conflict or inconsistency between MidAmerican's programs and requirements of the NERC CIP standards, the NERC CIP requirements shall govern.

## 2. CRIMINAL BACKGROUND CHECK, IDENTITY VERIFICATION AND RELATED SCREENING

If requested by MidAmerican, Supplier shall conduct, at its sole cost and expense, criminal background checks for the current and past counties of residence on all Personnel that have cyber or unescorted physical access to MidAmerican facilities or North American Electric Reliability Corporation CIPS Covered Assets or Protected Information. The background checks shall be updated no less frequently than every seven (7) years or for cause. At a minimum, an identity verification (social security number verification for U.S. citizens) and seven (7) year criminal background check including felony or misdemeanor convictions involving; (a) violence to persons/property; (b) theft/fraud; (c) drug/alcohol; or (d) traffic/other are required, employment history, education verification and professional certifications may also be required by MidAmerican. All background checks will be conducted in accordance with federal, state, provincial, and local laws, and subject to existing collective bargaining unit agreements or other agreements, if any. Supplier shall not allow persons who have not met MidAmerican's criteria to perform Work or Services or access CIPS Covered Assets or Protected Information, unless Supplier has received written authorization from MidAmerican. Supplier shall supply a certification that meets MidAmerican's criteria for all Personnel employed or engaged by Supplier. Supplier shall ensure that all Personnel sign an appropriate authorization form prior to criminal background checks being conducted, acknowledging the background check is being conducted and authorizing the information obtained to be provided to MidAmerican.

It is understood and agreed that MidAmerican may review Supplier's policies, background checks and related documentation upon request, subject to applicable federal, state and/or local statutes or regulations. MidAmerican may also request that Supplier provide an ongoing and updated list of persons that have been denied authorization to perform Work or Services for MidAmerican or denied access to MidAmerican assets, information or facilities.

#### 3. AUDIT

Supplier shall keep such full and detailed documentation as may be necessary for substantiation of compliance with this Contract. The method for maintaining documentation shall be satisfactory to MidAmerican. MidAmerican or its designee shall be afforded access to, and allowed to make copies of all Supplier's records, books, correspondence, instructions, drawings, agreements, memoranda and similar data that, in MidAmerican's judgment, relate to this Contract. This documentation will be available at Supplier's regular place of business during normal working hours or provided to MidAmerican in a reasonable alternative manner as may be requested by MidAmerican. Supplier shall preserve all such documentation for a period of three (3) years after completion of the Work or Services or longer where required by law. These requirements shall also apply to all Personnel, of any tier, and to all companies that are wholly or partially owned by or are affiliated with Supplier.

End	of.	Appendix	:

## Appendix 3 to Material Supply Contract

# Special Conditions Applicable to NV Energy CIPS Covered Assets and Protected Information NERC CIPS Requirements

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC) CRITICAL INFRASTRUCTURE PROTECTION (CIP) STANDARDS

Capitalized terms used herein shall have the same meaning as set forth in the Contract, unless the context may otherwise require.

## 1. PERSONNEL RISK ASSESSMENTS, TRAINING, SECURITY AWARENESS, INFORMATION PROTECTION, PERSONNEL CHANGES AND DOCUMENTATION

Supplier and all Personnel employed by or otherwise engaged by Supplier with authorized cyber or authorized unescorted physical access to Company's (hereinafter also referred to as "NV Energy") CIPS Covered Assets and/or Protected Information, shall comply with (a) all requirements of the NERC CIP standards, including and not limited to (b) NV Energy's Personnel Risk Assessment review and NERC/CIP Training Program, incorporated herein by this reference, or Supplier's programs for personnel risk assessment, training, security awareness and information protection, if NV Energy has reviewed and verified and approved the same.

In conjunction with the NERC CIP standards, Supplier shall ensure NERC CIP compliance and communicate all requirements to Personnel. Supplier shall (a) conduct personnel risk assessments consisting of an identity verification (at a minimum social security verification of U.S. citizens) and seven (7) year criminal background check and provide written certification as specified in Section 2 of these Special Conditions for all Personnel (except if access is only to non-public CIP sensitivity classification Protected Information); (b) fully inform and train all Personnel on requirements of CIP standards prior to accessing CIP Covered Assets and/or Protected Information and shall quarterly reinforce security awareness. If Supplier feels any of NV Energy's training or security awareness materials are inappropriate or desires to use Supplier's training or security awareness materials, Supplier shall provide Notice to NV Energy, and provide the training and/or security awareness documents and any improved practice to NV Energy for review, verification and approval; (c) furnish NV Energy a list that shows by name of Personnel, the completion date of each training course, and what materials were utilized; (d) furnish NV Energy a list describing the security awareness materials used and dates and how the security materials were distributed; (e) provide NV Energy with a list of Personnel authorized to handle NV Energy's protected CIP information that shows Personnel's information sensitivity classification clearance level and assure Personnel adhere to Protected Information handling procedures; (f) report Personnel terminations for cause immediately to NV Energy but not longer than twelve (12) hours from time of termination and report all other Personnel terminations or changes in employment status for those who no longer require access within twelve (12) hours from time of occurrence; and (g) keep accurate and detailed documentation to confirm compliance with requirements of NERC CIP standards as specified in Section 3 of these Special Conditions.

Supplier shall designate one person to be responsible for compliance with the Contract requirements. Reporting relating to this section shall be to NV Energy's designated authorized representative.

In case of conflict or inconsistency between NV Energy's programs and requirements of the NERC CIP standards, the NERC CIP requirements shall govern.

## 2. CRIMINAL BACKGROUND CHECK, IDENTITY VERIFICATION AND RELATED SCREENING

If requested by NV Energy, Supplier shall conduct, at its sole cost and expense, criminal background checks for the current and past counties of residence on all Personnel that have cyber or unescorted physical access to NV Energy facilities or North American Electric Reliability Corporation CIP Covered Assets or Protected Information. The background checks shall be updated for cause but no less frequently than every seven (7) years or for cause. At a minimum, an identity verification (social security number verification for U.S. citizens) and seven (7) year criminal background check including felony or misdemeanor convictions involving: (a) violence to persons/property; (b) theft/fraud; (c) drug/alcohol; or (d) traffic/other are required. employment history, education verification and professional certifications may also be required by NV Energy. All background checks will be conducted in accordance with federal, state, provincial, and local laws. and subject to existing collective bargaining unit agreements or other agreements, if any. Supplier shall not allow persons who have not met NV Energy's criteria to perform Work or Services or access CIPS Covered Assets or Protected Information, unless Supplier has received written authorization from NV Energy, Supplier shall supply a certification that meets NV Energy's criteria for all Personnel employed or engaged by Supplier. Supplier shall ensure that all Personnel sign an appropriate authorization form prior to criminal background checks being conducted, acknowledging the background check is being conducted and authorizing the information obtained to be provided to NV Energy.

It is understood and agreed that NV Energy may review Supplier's policies, background checks and related documentation upon request, subject to applicable federal, state and/or local statutes or regulations. NV Energy may also request that Supplier provide an ongoing and updated list of persons that have been denied authorization to perform Work or Services for NV Energy or denied access to NV Energy assets, information or facilities.

#### 3. AUDIT

Supplier shall keep such full and detailed documentation as may be necessary for substantiation of compliance with this Contract. The method for maintaining documentation shall be satisfactory to NV Energy or its designee shall be afforded access to, and allowed to make copies of all Supplier's records, books, correspondence, instructions, drawings, agreements, memoranda and similar data that, in NV Energy's judgment, relate to this Contract. This documentation will be available at Supplier's regular place of business during normal working hours or provided to NV Energy in a reasonable alternative manner as may be requested by NV Energy. Supplier shall preserve all such documentation for a period of four (4) years after completion of the Work or Services or longer where required by law. These requirements shall also apply to all Personnel, of any tier, and to all companies that are wholly or partially owned by or are affiliated with Supplier.

**End of Appendix3** 

Appendix 4 - Company Locations Calenergy

Will standard delivery occur via	your truck or	common carrier?	Distributor's truck	Distributor's truck	Distributor's truck	Distributor's truck	Distributor's truck
	Identify your local office closest to Company	location	Kenny Strickland Inc./Coachella, CA	Union Distributing/Phoenix AZ	MOLO OII/Eldridge, IA	Farrell Oil Co./Wilton, NY	Pilot Logistics/Odessa, TX
		Physical Address	7030 Gentry Road, Calipatria CA 92233	280 North 27th Drive, Yuma, AZ 85964	24712 182 Avenue N, Cordova, It. 61242	99 Weed Street Extension, Plattsburgh, NY 12901	500 Revindry Road, Big Spring, TX 79720
		Location Name	Warehouse/Auto Shop/ MAC	Yuma Cogeneration Associates	Cordova Energy Center	Saranac Power	Power Resources
	;	Division	CalEnergy Operating Corporation	Yuma Cogeneration Associates	Cordova Energy Center	Saranac Power	Power Resources

Appendix 4 - Company Locations MidAmerican Energy

Company	Location Name	Physical Address	Mailing Address	Cfty	State	Zip Code	identify your local office closest to Company location	Will standard delivery occur via your truck or common carrier?
MidAmerican Energy Company	Walter Scott Energy Center	7215 Navajo Street		Council Bluffs	Ι	51501	Nebraska Iowa Supply, Omaha NE	
MidAmerican Energy Company	Neal Energy Center (Neal South)	2761 Port Neal Circle		Salix	₹	51052	Nebraska Jowa Supply. Omaha NE	
MidAmerican Energy Company	Neal Energy Center (Neal North)	1051 260 <sup>th</sup> Street		Sergeant Bluff	≤	51054	Nebraska Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Riverside Generating Station	6001 State Street		Bettendorf	⊴	52722	MOLO, Eldridge IA	Distributor's truck
MidAmerican Energy Company	Louisa Generating Station	8602 172 <sup>nd</sup> Street		Muscatine	≤	52761	MOLO, Eldridge IA	Distributor's truck
MidAmerican Energy Company	Greater Des Moines Energy Center	4401 Carlisle Road		Pleasant Hill	≤	50327	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Avoca Service Center	361 South Elm	PO Box 98	Avoca	₹	51521	Nebraska Iowa Supply. Omaha NE	Distributor's truck
MidAmerican Energy Company	Bettendorf Service Center	5955 Fenno Road		Bettendorf	≤	52722	MOI.O, Eldridge IA	Distributor's truck
MidAmerican Energy Company	Cedar Rapids Service Center	602 D Avenue NW		Cedar Rapids	≝	52405	MOLO, Eldridge IA	Diatributor's truck
MidAmerican Energy Company	Clarksville	212 S Main Street		Clarksville	≤	50619	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Council Bluffs Service Center	3003 South 11th Street		Council Bluffs	Δ	51501	Nebraska Iowa Supply. Omaha NE	Distributor's truck
MidAmerican Energy Company	Delaware Service Center	4845 NE 22nd Street		Des Moines	Ι	51303	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Des Moines Gas LNG-LPG Plant	4845 NE 17th Court		Des Moines	Δ	50313	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Greenfield Service Center	2351 E County Line Road		Des Moines	Ι	50320	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Pleasant Hill Energy Center	3191 SE 45th Street		Pleasant Hill	¥	50317	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	River Hills Energy Center	105 Watson Powell Way		Des Moines	Ι	50309	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Sycamore Energy Center	6141 NW Beaver Drive		Johnston	¥	50131	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Walnut Ridge Service Center	10510 Douglas Avenue		Urbandale	⊻	50322	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Two Rivers Service Center	201 SE 1st Street		Des Moines	⊻	50309	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Fort Dodge Service Center	637 S 22nd Street		Fart Dodge	⊻	50501	Boyer Petroleum, Des Moines IA	Distributor's truc!:
MidAmerican Energy Company	Iowa City Service Center	1630 Lower Muscatine Road		lowa City	⊻	52240	MOLO, Eldridge IA	Distributor's truck
MidAmerican Energy Company	LeMars	1171 Prospect Street SW		Le Mars	₹	51031	Nebraska lows Supply. Omsha NE	Distributor's truck
MidAmerican Energy Company	Oskaloosa Service Center	2411 North Market Street		Oskaloosa	≰	52577-1855	Boyer Petroleum, Dos Moines IA	Distributor's truck
MidAmerican Energy Company	Ottumwa Service Center	302 S Vine Street		Ottumwa	≤	52501	Boyer Petroleum, Des Moines IA	Distributor's truck:
MidAmerican Energy Company	Red Oak	311 Alix		Red Oak	₹	51566	Nebraska Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Rock Island Service Building & Garage	2811 5th Avenue		Rock Island	교	61201	MOLO, Eldridge 1A	Distributor's truck
MidAmerican Energy Company	Rock Valley Energy Center	1700 HWY 18		Rock Valley	Ι	51247	Nebraska Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Schaller Wind Farm	506 W 2nd Street		Schaller	ĕ	51053	Bayer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Shenandoah	900 W Ferguson Road		Shenandoah	⊻	51601	Nebraska Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Sioux City Service Center	223 S lowa Street		Sioux City	Υ	51101	Nebraska Iovva Supply. Omaha NE	Distributor's truck
MidAmerican Energy Company	Sioux City Fleet Maintenance Center	3990 Southgate Drive		Sioux City	⊻	51106	Nebraska Iowa Supply. Omaha NE	Distributor's truck
MidAmerican Energy Company	Sioux Falls Service Center	1200 S Blauvelt		Sioux Falls	SD	57105	Nebrasia Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Storm Lake Service Center	1018 N Vestal Street		Storm Lake	Ι	50588	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Urbandale Business Center	rbandale Dr		Urbandale	⊻	50322-7916	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Vermillion		419 W Cherry Street	Vermillion	SD	57069	Nebraska Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Waterloo Service Center	260 Fairview Avenue		Waterloo	<u>₹</u>	50703	Boyer Petroleum, Des Moines IA	Distributor's truck:

Appendix 4 - Company Locations Northern Natural Gas

Location Name	Location Address	Ğ	State	Zin Code	Identify your local office closest to	Will standard delivery occur via your truck or
NNG2 GARNER	2315 YALE AVE	Garner	_ ĕ	50438	Bover Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 VENTURA	REET	Garner	¥	50438	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 GUTHRIE CENTER	2421 DOGWOOD AVENUE	GUTHRIE CENTER	IA	50115	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 HUBBARD	21497 290TH STREET	HUBBARD	Ι	50122	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 OAKLAND	46299 U.S. HIGHWAY 6	Oakland	IA	51560-4557	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 OGDEN	STREET	Ogden	ΙA	50212	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 PAULINA		Paullina	IA	51046	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 REDFIELD		Redfield	IA	50233	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 WATERLOO CDC	RD.	Waterloo	IA	50701	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 BUSHTON		Bushton	KS	67427	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 CLIFTON		Clifton	KS	66937-0160	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 CUNNINGHAM	AVE	Cunningham	KS	67035	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 HOLCOMB	0	Holcomb	KS	67851	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 SUBLETTE		Kismet	KS	67859	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 LYONS	1420 17TH ROAD	Lyons	KS	67554	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 MACKSVILLE		Macksville	KS	67557-5808	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 MULLINVILLE		Mullinville	KS	67109	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 TESCOTT	ROAD	Tescott	KS	67484-0156	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 NEGAUNEE	118 US HWY 41 E	NEGAUNEE	Ξ	49866	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 CARLTON	L GAS	Carlton	NΝ	55718-9147	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 FARMINGTON CDC	4685 212TH STREET WEST	Farmington	MN	55024	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 ST. CLOUD	- SUITE 120	Foley	MN	56329	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 NORTH BRANCH		Harris	MN	55032-2116	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 OWATONNA	l=	Owatonna	MΝ	55060	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 WELCOME		Welcome	MN	56181	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 WILLMAR		WILLMAR	MN	56201	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 WRENSHALL	AD #1	Wrenshall	MN	55797	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 BEATRICE		Beatrice	NE	68310-7709	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 SOUTH OMAHA		Believue	NE	68147	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 PALMYRA	1170 NORTH 10TH ROAD	Palmyra	NE	68418-9795	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck

Appendix 4 - Company Locations Northern Natural Gas

NNG2 S. SIOUX CITY	5111 DAKOTA AVE	S. Sioux City	NE	92/16	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 BEAVER	5 Mi E of ELMWOOD ON HWY 27 Beave	Beaver	ОК	73932	Pilot Logistics, Oklahoma City OK	Common Carrier/Distributor Truck
NNG2 CHEYENNE	17 Mi NW OF ELK CITY	CHEYENNE	ОК	73628	Pilot Logistics, Oklahoma City OK	Common Carrier/Distributor Truck
NNG2 ROGER MILLS	17 Mi NW OF ELK CITY ON RAND Cheyenne	Cheyenne	OK	73628	Pilot Logistics, Oklahoma City OK	Common Carrier/Distributor Truck
NNG2 CLARK	1025 1ST AVE W	CLARK	SD	57225	Homax Oil, Gillette WY	Common Carrier/Distributor Truck
NNG2 HARRISBURG	47493 272ND STREET	Harrisburg	gs	57032	Homax Oil, Gillette WY	Common Carrier/Distributor Truck
NNG2 ANDREWS	915 NW MUSTANG DRIVE	ANDREWS	ΧL	79714	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 BIG LAKE	104 N PLAZA AVENUE	Big Lake	XL	76932	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 CANADIAN	10910 SOUTH US HWY 83	Canadian	ТX	79014	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 KERMIT	2 Mi S of KERMIT ON HWY 18	KERMIT	XT	79745	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SPRABERRY	13401 COUNTY ROAD 230 EAST Midland	Midland	XT	90262	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SKELLYTOWN	1000 1ST STREET	Skellytown	XT	79080	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SPEARMAN	8 Mi S of SPEARMAN ON FM 760 Spearman	Spearman	XI	79081	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SUNRAY	7174 FM 119	Sunray	ΧT	98062	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 PLATTEVILLE	5557 COUNTY ROAD D	Platteville	WI	53818	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck

## Appendix 4 - Company Locations PacifiCorp

191				i	i	,	Identify your local office closest to	Will standard delivery occur via your
DavifiCorp Epagar	line Bridger Of the	O MI NE DOING AS DELLA AS DOLLA	Mailing Address	CITY	-	Zip Code	Company location	truck or common carrier?
PacifiCoro Energy	Dave Johnston Plant	1591 Tank Farm Road	1504 Tank Farm Board	Clannach	2 2	24570	DOTTIER, NOCK SPRINGS VAT	Distributor's truck/Common carrier
PacifiCorp Energy	Wyodak Plant	48 Wyodak Road	48 Wyodak Road	Gillette	Š	82716	Homax Gillette WV	Distributor's truck/Common Carrier
PacifiCorp Energy	Naughton Plant	Hwy 189 5 of Kemmerer	Hwy 189 5 of Kemmerer	Kemmerer	ķ	83101	Homax, Rock Springs WY	Distributor's truck/Common Carrier
PacifiCorp Energy	Gadsby Plant	1359 West North Temple	1359 West North Temple	Salt Lake City	5	84116	Thomas Petroleum. No. Salt Lake. UT	Distributor's truck
PacifiCorp Energy	Carbon Plant	Intersection 6 & 191	P.O. Box 839	Helper	5	84526	Thomas Petroleum, Price UT	Distributor's truck
PacifiCorp Energy	Huntington Plant	Hwy 31 W of Huntington	P.O. Box 680	Huntington	5	84528	Thomas Petroleum, Price UT	Distributor's truck/Common Carrier
PacifiCorp Energy	Hunter Plant	Hwy 10 S of Castle Dale	P.O. Box 569	Castle Dale	5	84513	Thomas Petroleum, Price UT	Distributor's truck/Common Carrier
PacifiCorp Energy	Blundell Geothermal Plant	Roosevelt Hot Springs Rd	P.O. Box 769	Milford	5	84751	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
	Currant Creek Plant	2096 W. 300 N	2096 W. 2300 N.	Mona	5	84645	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
	Lake Side Plant	1825 N Pioneer Lane	1825 N Ploneer Lane	Vineyard	7	84058	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
argy	Chehalis Plant	1813 Bishop Road	1813 Bishop Road	Chehalis	WA	98532	Small & Sons, Auburn WA	Distributor's truck/Common Carrier
Pacific Power	Walla Walla	650 E. Douglas	650 €. Douglas	Walla Walla	WA	99362	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Walla Walla Tech Ops	75 Duncan Lane	75 Duncan Lane	Walla Walla	WA	99362	Small & Sons, Auburn WA	Distributor's truck/Common Carrier
	Yakima Hub Warehouse	500 North Keys Road	500 North Keys Road	Yakima	WA	98901	Small & Sons, Auburn WA	Distributor's truck
	Bend	328 NE Webster	328 NE Webster	Bend	OR	97701	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Bend Tech Op's	201 SW Columbia	201 SW Columbia	Bend	o <sub>R</sub>	97702	Small & Sons, Auburn WA	Distributor's truck/Common Carrier
Pacific Power	Albany Hub Warehouse	830 Old Salem Road	830 Old Salem Road	Albany	OR	97321	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Grants Pass	1420 Williams Hwy	1420 Williams Hwy	Grants Pass	OR	97527	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Medford Hub Warehouse	925 S. Grape Street	925 S. Grape Street	Medford	OR	97501	Small & Sons, Auburn WA	Distributor's truck
П	Yreka Warehouse	300 S. Main	P O Box 248	Yreka	ర	96097	Small & Sons, Auburn WA	Distributor's truck
П	Casper Hub Warehouse	2840 E Yellowstone Hwy	2840 E Yellowstone Hwy	Casper	Š	82602	Homax, Casper WY	Distributor's truck
П	Buffalo	62 T W Road	125 S. Main	Buffalo	λΛ	82834	Homax, Gillette WY	Distributor's truck
П	Cody	226 W Yellowstone Avenue	226 W Yellowstone Avenue	Cody	λM	82414	Homax, Casper WY	Distributor's truck
Rocky Mountain Power	Evanston	105 Commerce Dr	105 Commerce Dr	Evanston	λM	82930	Homax, Rock Springs WY	Distributor's truck
Rocky Mountain Power	Rock Springs Warehouse	415 N Street	415 N Street	Rock Springs	À	82901	Homax, Rock Springs WY	Distributor's truck
Rocky Mountain Power	Preston Hub Warehouse	509 S. 200 E.	P O Box 432	Preston	Ω	83263	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Montpelier	425 Clay Street	425 Clay Street	Montpelier	₽	83254	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Smithfield	780 North Main Street	780 North Main Street	Smithfield	5	84335	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Layton	635 North 1200 West	635 North 1200 West	Layton	5	84041	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Salt Lake Metro	1569 West North Temple	1569 West North Temple	Salt Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Sait Lake Tech Ops	1359 West North Temple	1359 West North Temple	Salt Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck/Common Carrier
Rocky Mountain Power	Salt Lake Toolroom	1569 West North Temple	1569 West North Temple	Salt Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Salt Lake Hub Warehouse	1569 West North Temple	1569 West North Temple	Saft Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Т	Jordan Valley	12840 Pony Express Road	12840 Pony Express Road	Draper	5	84020	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
П	Park City	5280 Silver Creek Road	P.O. Box 1508	Park City	5	84060	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
П	Santaquin	355 West 200 North	355 West 200 North	Santaquín	5	84655	Thomas Petroleum, Cedar City UT	Distributor's truck
	Moab	320 North 1st West	320 North 1st West	Moab	5	84532	Thomas Petroleum, Price UT	Distributor's truck
Rocky Mountain Power	Richfield Hub	710 North Main	710 North Main	Richfield	5	84701	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
	Deer Creek Mine	3 Miles N. of Huntington Plant		Huntington	5	84528	Thomas Petroleum, Price UT	Distributor's truck
ning Co.	Coal Prep Plant	3.5 Miles S of Castle Dale		Castle Dale	5	84523	Thomas Petroleum, Price UT	Distributor's truck
Bridger Coal Co.	Bridger Mine	9.5 Miles NE of Point of Rocks	P.O. Box 68	Point of Rocks	Α̈́	82942	Homax, Rock Springs WY	Distributor's truck

## Appendix 4 - Company Locations NV Energy

		Zip Code	89124	89165	89019	89019	89025	89438	89447	89343
		State	Nevada	Nevada	Nevada	Nevada	Nevada	Nevada	Nevada	Nevada
	ties	City	LasVegas	North Las Vegas	Primm	Jean	Moapa	Valmy	Yerington	Sparks
NV ENERGY	Company Facilities	Street Address	14601 North Las Vegas Boulevard	13605 Chuck Lenzie Court	1275 Primm Boulevard	1.5 Miles Southeast of Goodsprings	501 Wally Kay Way	I-80 Stonehouse Exit	1000 Sierra Way	1799 Waltham Way
		Facility Name	Harry Allen	Chuck Lenzie	Walter M. Higgins	Goodsprings	Reid Gardner	North Valmy	Fort Churchill	Frank A. Tracy

Attachment 1 - PacifiCorp Lube Oil Techincal Specification
This specification to be used for all Berkshire Hathaway Energy affiliates except MidAmerican Energy

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Comments					: !																
Rust Test (Desch)												pates	spare	base	Pass	pags	pase	poor	and d	i	
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MPAOT (ANTH DZZZZ (mirutes)												>250	>250	>250	>250	»Z70	>270	270	270	>270	
Newtrabastion Number (650 9818) mg KOHg	8.4 by ASTM D2076			8.6 ASTM D2696				7.9 ASTM D2886	7.5 by ASTM D2896	8.1	B.1 by ASTM Dz696										7.6 ASTM D2886
Color (ASTM Drifficity	3	\$		30	30	3.5	gg.	372	12.5	4.0	0,4	970	979	9.5	en	0.5	6.5	5.0	0.5	0.5	2.0
Elementel	Celchm 2100 - 2680 PPM, Phosphorus 970 -1160 PPM, Silloon 8 PPM, Sufur 3850 PPM, Zinc 1080 - 1360 PPM	Barium 10 - 30 PPM, Calckum 2100 - 2890 PPM, Phospherus 970 - 1160 PPM, Suffur 3850 PPM, Zinz 1080 - 1390 PPM, Silcon 8 PPM	Baron 3 PPM, Calcium 3170 - 4050 PPM, Phosphorus 1180 - 1440 PPM, Silicon 8 PPM, Sulfar 4600 PPM, Zinc 1310 - 1670 PPM	Celcium ZXXX - 2810 PPM, Molytekerum 80 PPM, Phosphorus XXX - 800 PPM, Sulfur 3800 PPM, Zinc XX - 800 PPM, Thartum 84 - 117 PPM	Celchun 2200 - 2810 PPW, Melybdenum 80 PPW, Phesphorus 700 - 800 PPW, Sušur 3800 PPM, Zivo 770 - 880 PPW, Titarkum 84 - 117 PPW	Barium 10 - 30 PPM, Calcium 1930 - 2480 PPM, Molyhdenum 80 PPM, Phosphorus 700 - 800 PPM, Suffur 3800 PPM, Zho 770 - 880 PPM	Berlum 10 – 30 PPM, Calcium 1930 – 2460 PPM, Molykderum 80 PPM, Phospirorus 700 – 800 PPM, Suffur 3900 PPM, Zinc 770 – 990 PPM	Berlum 10 - 30 PPM, Catelum 1630- 2400 PPM, Modybderum 80 PPM, Phospinona 700 - 800 PPM, Suffur 3800 PPM, Zhr. 770 - 530 PPM	Celcium 2100 - 2690 PPM, Phosphorus 830 -1010 PPM, Sulfur 3600 PPM, Zino 365 - 630 PPM	Calctur 2280 - 2910 PPM, Phosphorus 900 -1100 PPM, Sufur 3800 PPM, Zinc 1000 - 1280 PPM	Calcium 2280 - 2910 PPM, Phospharus 900 -1100 PPM, Sulfur 3800 PPM, Zinc 1000 - 1280 PPM	Calclum SOPPM, Phosphorus 340PPM, Suitur BOOPPM, Zinc 385 - 430 PPM	Calcium 50 PPM, Phosphorus 340 PPM, Sufur 600 PPM, Zhe 385 - 430 PPM	Calclum SOPPM, Phespherus 340PPM, Bulhur BOOPPM, Zinc 385 – 430 PPM	Celolum 50PPM, Phoesphorus 340PPM, Suffur 700PPM, Zins 385 - 430 PPM	Calchun 50PPM, Phosphorus 940PPM, Sulhir 600PPM, Zinc 385 - 430 PPM	Calcium 60 PP.M. Phosphorus 340 PPM, Guillur 600 PP.M, Zinc 365 - 430 PP.M.	Calcium 50 PPM, Phospharus 340 PPM, Suffur 600 PPM, Zinc 365 - 430 PPM	Calabim 50 PPM, Phosphorus 340 PPM, Sufur 600 PPM, Zinc 385 - 430 PPM	Cacium 50 PPM, Phosphorus 340 PPM, Sulfur 600 PPM, Zinc 385 - 430 PpM,	Calclum 2180 - 2650 PPM, Phosphorus 650 - (010 PPM, Zhe 890 - 1210 PPM
Flash point *F (ASTM DAZ)	441F (COC)   8	441 (COC) 74	437 (505)	446F (DOC) 7	485 (COC) 7	424 (COC)	421 (COC) 2	444F (DOC)	424F (COC) B	464F (COC) P	484F (COC) F	379F (COC)	388F (COC)	416F (COC)	525 (COC) 33	463F (DOC) 3	480F (COC) P	441 (000)	421 (000) 12	385 (000)	41SF (COC) P
Pour Point 19 (ABTIM DB?)	-38F	9	9	*.33F	ĵ	4	7	-44F	-38F	-27F	-27F	-68F	-49F	-48F	۳	-585-	-2775	1Ş	19	9	187
Viscosity	137	148	8	ĝ	167	įĐ	162	251	122	108	108	144	145	361	2	8	8	100	Þ	ğ	克
Minematic Viscosity @ 100°0 (ASTM D446) (eSt)	15.2	12	15.2	15.4	\$1.1	8.5	10.8	10,4	7.5	11	15.4	4,8	8.4	7.7	14.7	£	6.7	6.8	25	4.3	8.8
Memority &	114	8	15	108	8	47	67	68	48	68	148	20.8	32.7	48	148	100	3	46	F	z	8
Conscortilling Product	Fleet Supreme EC 15W-40	Floot Supreme EC 10/N-30	HC Power D 15W-40	Kendall GT-1 HP Motor Oil 10/4-40	Kendall GT-1 Full Synthatic Mater CR BW-30	Super All Sesson Symblerid SAV-20	Super All Season Synblend 5/N-30	Super All Sesson Synblend 10W-30	T5X Heavy Duly Motor OII 10W	TSX Heevy Duty Motor OI 30	T5X Heavy Duty Motor OII 40	Megaflow AW HVI Hydraulic Off 22	Megaflow AW HVI Hydraulic OII 32	Megaflow AW HVI Hydraullo OII 48	Magaflow AW Hydraulic OII 150	Megaffow AW Hydrautic Oil 100	Megaflow AW Hydraulic Oil EB	Megaflow AW Hydraulie Oll 45	Megaflow AVV Hydrautic Oil 32	Megallow AW Hydraulic Oll 22	Poverdrive 10M
Ottidaijosa	Current API specification as of January 2012.	Current API apecification as of January 2012,	Current API specification as of January 2012.	Current API specification as of January 2012.	Currert API specification as of January 2012.	Current API specification as of January 2012.	Current API specification as of Jenusry 2012.	Current APT specification as of January 2012,	Not for use in engines, hydraulic/fransmitesions only.	Current API apacification as of January 2012.	Commonly used in Detrict Dissel 2-cycle dissel engines	Low temperature applications.	Low temperature applications.	Low temperature applications.	Antiweer applications, hydraulic pumps and motore.	Antiweer applications, hydraulic pumps and motore.	Antiwear applications, hydraulic pumps and motors.	Antiwear applications, hydraulic pumps and motors.	Arthwest applications, hydrautic pumps and molors.	Antiweer applications, hydraulic pumps and molors.	Commonly used as a hydraulic oil in mobile equipment
Generic Lubricant Specification	OR, Mineral, Ergins, SAE 15M40 API 0J4,CL4 (PLUS, CH4, SM	Oli, Minorai, Engina, SAE 15A/40 API G.14, Cl.4, Cl.4, S.M.	Oli Mineral Engine, SAE 15M40 API CL4 PLUS, CH4, CH4, SL	Oll, Mineral, Engina, SAE 10M40, API SN / Does of meet ILSAC GF-5	Oli, Full Synthetic, Engine, SAE 9N3Q, API SN / ( II.SAC GF-5	Off, Mineral or Synthetic or Synthetic Bland, Engine, SAE SW20, API SN / ILSAC GF-5	Cit, Mineral or Synthesio or Synthesic Blend, Engine, SAE SW30, API SN / ILSAC GF-6	Ol, Mheral or Symhetic or Symbetic Blend, Engine, SAE 10M30, API SN / ILSAC GF-5	Oll, Mineral, Hydraulic, SAE 10, Minimum VI 105.	Oil, Mineral, Engine, SAE 30 API CF, CF.2, CD	Oš, Mineral, Engine, SAE 30 API CF, CF-2, CD	OS, Mineral, Mydraulfo & General Purpose, Antiweer, R&O, ISO VG 22, Minimum VI 135, Wide Temperature Range, Pour Point < -45 F	Oli, Mineral, Hydnautic & General Purpose, Antheser, R&O, ISO VG 32, Minimum VI 135, Wile Temestativa Ramas, Pour Point <-45 F	Oli, Miheral, Hydraulic & General Purpose, Antiwest, R&O, ISO VG 48, Minimum VI 135, Wikie Temperatus Range, Pour Point <-46 F		Oll, Nünerni, Hydraulic & General Purpose, Anthones, R&D, ISO VG 100, Minimum VI 95	Oli, Mirwal, Hydraulic & General Purpose, Arthweier, R&O, ISO VG U3, Minimum VI 95	Oll, Mineral, Hydraulio & General Purpose, Antivesar, R&O, ISO VG 48, Minimum VI 95	Olf, Mirneral, Hydraudic & General Purpose, Antibeaur, R&O, ISO VG 32, Minimum VI 85		Cell, Winerell, Drive Trein & Trememiesion, SAE 10, Allien C.4. Cariepijer TO-4, Euclid equipment, Cerneteu equipment, Voiere (Eatory) M-295U-S, ZF TE-ML DDC for burque connecter transmissions
<u>0</u>	901-9	201-4	P-103	\$-10¢	P 108	80.4	Pa. 07	9-108	P-108	P-110	114	Pulity I	Promot	brillion.	P-204	P-205	P.2006.	P-269	P-200	P.30	D004
					SHO	euign	3			77	17		193		NO S	iluer	PAH		W		

Attachment 1 - PacifiCorp Lube Oil Techincal Specification
This specification to be used for all Berkshire Hathaway Energy affiliates except MidAmerican Energy

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Correments																	
That The Comment								Pess	Page .	Pess	and the same of th	heet	ii ii	1	pres	i	2484
S T S															=	4	4
Paraday Paraday Paraday Paraday								Pass	Pass	Pass	base	besse		1900	pass	##Cd	ward
The Corner Diversion of the Contract of the Co	(alfolia)							20 reinutes to pase	20 minutes to pees	20 minutes to pasts	20 minutes to pass	20 minutes to pass	20 minutos to peas	20 minutes to pess	20 minutes to past	20 minutes to	20 minutes to perm
MENOT (ASTM (D2272) (minutes)			¥.					250	087	057	82	902	900	200	>1200	×1200	>1200
Manylow (900 98-19) mg FOHIG	7.8 by ASTM UZ896	7,6 by ASTIM 02886	6.6 ASTM D2896														
Color (MSTM CHEDO)	25	9	85 85	Amber, visual	Red Visual	Red Visual	Red Visual	1.0,5	1.0.5	10.5	Las	2,6	10,	8.4	970	8,0	8,0
Elepanda	Calchim 2190 - 2060 PPM, Phosphera 830 -1010 PPM, Zhe 880 - 1210 PPM	Calctum 2180 - 2680 PPM, Phosphorus 630 -1010 PPM, Zinc 880 - 1210 PPM	Boron 110 PPM, Calcium 5240 - 4140 PPM, Molybdenum 80 PPM, Phoughouts 1070 - 1310 PPM, Sillion 10 PPM, Sulfur 2380 PPM, Zho 1350 - 1720 PPM	Baten 250 PPM, Calcium 40 PPM, Phesphats 1050 -1350 PPM	Baron 68 - 121 PPM, Calcium 62 - 79 PPM, Phosphorus 205 - 254 PPM, Suffur 1084 - 156 PPM	Baron 100 PPM, Zine 430 - 530 PPM, Pheapharta 400 -800 PPM, Sulfur 2100 PPM	Boran 63 - 110 PPM, Phospharus 178 - 238 PPM, Silcen 10 PPM, Suña £134 - 1222 PPM	Phosphorus 25 PPM	Phosphorus 25 PPM	Phosphorus 25 PPM	Phosphana 25 PPM	Phosphone 25 PPM	Phosphorus 25 PPM	Phosphorus 25 PPM	No metalic additives	No metalic additives	No metalic additives.
Pash post 19 (Astrik Cha)	461F (COC)	468F (COC)	410F (DOC)	430 (COC)	414F (000)	410 (000)	386 (000)	450 (CDC)	480 (COC)	488 (COC)	514F (COC)	BATF (COC)	646F (COC)	578F (COC)	463F (COC)	460F (COC)	428F (COC)
Pour Point T	#5	-18F	擊	9	*40F	ş	â	9	F	85	擦	ř	la la	its	17.	475	759
11	90)	35	<u>\$</u>	2	81	CSE .	200	101	혍	ğ	26	16	<i>L</i> 8	18	92	102	25
Merchanics Services of the Control o	114	19.1	8	17.3	,	7.8	7.8	5.4	6,7	8.8	11.3	15,5	18.9	eg.	3	6,7	A.
	8	722	2	弦	22.	83	×	32.5	Đ	68.2	101	85	220	318	8	89	31.8
Consonthillps Product Name	Powerdrive 30	Powerdrive 50	Powerban Fluid	Triton Synthelic Transoil 50	Super ATF	ATF 1/po F	Mercon V ATF	Mulipurpose R&O 32	Multipurpose R&O 46	Multipurpose R&O 55	Multipurpose R&O 100	Multipurpose R&O 150	Mulipurpose R&O 220	Mulipurpose R&O 320	Turbhe Oil 68	Turbine Oil 46	Turbine Oil 32
Outsiles	Controotly used as a transmission off in senth moving and heavy equipment	Commonly used as a final cifive oil in earth moving and heavy equipment	Corentarity used in oil-highway equipment requiring are lubricant for the transmission, final drive, wet breken and hydraulio systems.	Commonly use in heavy-clary menual transmissions in trueles operating in extreme temperatures and/or extended service intervals	Convincity use in GM and Ford sufformatio transmissions in 2005 and earlier model-year vehicles	Commonly used in passenger ours and light trucks manufactured by Ford prior to 1977, and in merry 1977-1531 models, also serve hydrostatic dirige systems.	Ford automatic transmissions where a MERCON V fluid or earlier-generation MERCON & Build in specified and for many GM 2005 and earlier vehicle automatic transmissions	Cartrifugal sir compressors, olrodaling systems requiring light antiweer (non-zino)	Centrifugal air compressors, circulating systems requiring light antiwesr (non-stre)	Centrifugal air compressors, clrculating systems requiring light anthreat (non-zinc)	Lightly loaded gearboxes requiring non-EP oil, alreulating systems requiring fight antihvast (non-zine)	Lightly loaded gearboxes requiring non-EP oil, airudeling systems requiring light antheaur (non-zing)	Lightly loaded geenbouse requiring non-EP of, circulating systems requiring light antiweer (non-tine)	Lightly loaded gearboxse requiring non-EP od, circulating systems requiring light antiwear (non-sino)	Commonly used in lightly to moderately loaded plain and rolling-element bearings	Industrial steem turbines, many lightly loaded plan and rolling- element bearings, such as those in electric motors, purnes and blowers	Industrial ateam harbines, many fightly baded plain and reling- element beamings, each his those in electric molen, pumps and bloream
Committe Lubricant Specification	CR, Miharal, Gsar, Dive Train and Tharachishion, SAE 30, Albann C-4, Catappliar TO-4, Euclid equipment, Komelisu equipment, Volorar (Eator) N-2550-6, ZT E-ML DDC for torque converter transcrissions	Oll, Miseral, Geer, Drive Train and Transmission, (SAE 50, Caterpilar TO-4, Euclid equipment, Yornalbu equipment, Victors (Euton) M-2050-S	Ol, Mheral, Malipurpose, Transmission & Hydraufe, Trector Fraz Drive – See OEM Specification Requirements	Off. Symbotic, SAE 50, Transmission, Heavy Duby Manual, API Service GL-1, MT-1	Fluid, Authoristics Transmission, Mercon & Degran	Fluid, Automatic Transmission, Type F, Ford ESW-M2C233-F	Fluid, Automatic Thursentieslen, Mercon V, Allison C4	Oli, Mineral, Hydraulic & General Purposa, Non- zine Arthwar, R&O, ISO VG 32, Minimum VI 95	Oli, Mineral, Hydraulic & General Purpose, Non- zinc Artiwear, R&O, ISO VG 46, Minimum VI 85	Oil, Mheral, Hydraulic & General Purpose, Non- dric Anthean, R&O, ISO VG E3, Minimum VI 95	ON, Mineral, Hydraulic & General Purpose, Non- dine Avtiveer, R&O, ISO VG 100, Minimum VI 95	Ol, Mineral, Hydrudie & General Purpose, Nor- dire Antiwear, non-EP, R&O, ISO VG 150, Minimum VI 85	Ol, Mitward, Hydraufin & General Purpose, Non- zhre Antewer, Mon-LP, N&O, ISO VG 220, Minimum VI 96	Oli, Mineral, Hydratic & General Purpose, Non- zine Antilveer, non-EP, R&O, ISO VG 320. Minerary VI 95	Oll, Minural, Turbine, Steam, R&D, ISO VG 88, Minimum VI 100	Oll. Mineral, Turbins, Steam, R.E.O., ISO VG 48, Minimum VI 100	Ol, Marera, Turbha, Shean, RAO, ISO Vio 22. Minhram M 100, minhram RPVOT 600 htm. minhram TOST 12,000 htm.
Oll Spec	100 %	P-302	8	P-304	P.3054	P-308	P-GGT	1	ğ	ž	ţ	7-404	Ž.	1	Y	1	1
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Attachment 1 - PacifiCorp Lube Oll Techincal Specification
This specification to be used for all Berkshire Hathaway Energy affiliates except MidAmerican Energy

Consmitte																					
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		20 minutes to pass				10 minutes to pass	10 minutes to page	10 minutes to peas	10 minutes to page		10 minutes to page										
	2,78	×1,700	98	99	050	2400	2400	2400	2400		×1800										
No.																					
Color (Astra Dieso)	6.5	970	11.0	15.0	6,13	5001	10.5	10.5	10.5	14,0	0.5	3,0	4.0	8,4	5.0	3,5	O.S.	3.0	0,8	0.8	1
Hammind	No metalic additives	No metalic additives	Phosphorus 1500 - 2100 PPM	Phosphorus 1500 - 2100 PPM	Phosphorus 380 - 570 PPM	Phosphona 380 - 570 PPM	Phosphora 380 - 570 PPM	Phosphorus 380 - 570 PPM	Phospharus 380 - 570 PPM	Phosphorus 2100 PPM, Sillicon Z PPM	Phosphorus 25 PPM,	Phesphorus 220 - 400 PPM, Suffur 5500 PPM,	Phosphorus 220 - 400 PPM, Suffur 5800 PPM,	Phosphorus 220 - 400 PPM, Sulfur 5800 PPM,	Phosphorus 220 - 400 PPM, Suffur 5300 PPM	Phosphorus 220 - 400 PPM, Sulfur S300 PPM	Phosphorus 220 - 400 PPM, Sulfur 5300 PPM,	Phosphorus 250 -350 PPM, Sulfur 13000 -18000 PPM	Phosphorus 1200 -1300 PPM	Prosphorus 1000 PPM	Phosphorus 263 - 432 PPM, Suffur 6600 - 8400 PPM, Zive 5 PPM
Pleath position (Austral Cook)	428 (COC)	489 (COC)	470F (COC)	475F (COC)	475F (COC)	527F (COC)	527F (COC)	518F (COC)	473F (COC)	511 (CDC)	484F (COC)	465F (COC)	489F (COC)	486F (COC)	463F (COC)	488F (COC)	>572F (COC)	414F (COC)	SEUF (COC)	382 (000)	484F (COC)
Pear Point 19 (AATH DOT)	ę	ដ	-20F	16.	101	-386-	-38F	LES.	-90E	-78	-NF	-27F	-27F	-17F	A	10	27F	iş.	<u>t.</u>	ę	184
N. N. S.	25	102	123	127	128	981	ŝ	130	184	131	\$2	8	48	2	8	8	ę	8	147	84	Ē
Manual Value of the Control of the C	5,4	8,8	37.2	22.8	17.5	12,5	8,8	7.4	5.8	Fd -	2,7	6.7	14.4	18,4	29.7	30.5	22	143	16.8	30.8	21.7
Manual Property of the Party Control of the Party C	31.7	8	480	82	150	8	28	4	32	28.5	35.9	8	85	220	320	460	OFF	140	箔	284	161
General Name Name	Diamond Chee Turbine OII	Diemond Cless Turbine OII 68	Syncon R&O 460	Synean R&O 220	Syncon R&O 150	Syncon R&O 100	Syncon RBO (43	Syncon R&O 48	Syncon R&O 32	Syndustrial Turbine Oil 22/32	Syndautial Rotary Compressor Oil 32/46	Extra Duly Gear Oil 68	Extra Duty Geer Oil 150	Extra Duly Geer Oil 220	Extra Duty Gurr Off 320	Extra Duty Gear Cil 450	Exica Duty Gear Oil 1930	Universal Gear Lubs BDW-80	Triton Synthesic Guar Lube 75W-80	Tribo Synthetic Gear Libe 6094-140	Syncon EP Plus Geer Of 160
- Cultural	Long Ifte steam and gas turbine applications	Long life steam and gas turbine applications	Light to medium loaded gearboxes requiring non-EP of	Light to medium loaded gearbaces requiring non-EP oil	Lightly loaded gearboose requiring non-EP of, elroulating systems.	Lightly loaded gearborns requiring non-EP off, circulating eyettems.	Robary sir compressors, electric motor bearings, chouleting eyebers.	Rotary air compressors, electric motor bearings, clrc.usting eystems.	Rotary air compressors, electric motor bearings, circulating systems.	as turbines,	Drop in replacement for DEM- branded polyglycol-based compressor als.	Commonly used in lightly leaded and/or high speed gentomes requiring EP oil	Commonly used in lightly to moderatoly loaded or gearbates requiring EP oil	Corrimonly used in moderately tonded gearboxes requiring EP oil	Commonly used in heavily loaded and/or slow apped gest/baxes requiring EP oil	Commonly used in very heavily feather and services and gesthouse requiring EP oil	Commonly used in very heavily leaded and/or slow speed gestboxes requiring EP oil	Contentraty used in its presented and the think addes with hypold great setts.	Commonly used in in presenger car and truck raises with hypoid gase sets in extreme temperatures or under severe driving conditions	Commonly used in in peasangs car and truck odes with hypoid gest selve in activate bengeratures or under severe disking conditions.	Commonly used in lightly to moderately loaded or geamboxes operating in temperature extremes and negating EP oil
	Oli, Mineral, Turbina, Stearn, R&O, ISO VG 32, Minimum VI 100, minimum RPvOT 1700 hrs., minimum TOST 25,000 hrs., meets ISO idealines 16/19/13.	Oll, Mineral, Turbine, Steam, R&O, ISO VG 69, Minteram VI 100, minimum RPVOT 1700 hrs., minumum TOST 25,000 hrs., meets ISO ideanliness 18/19/13.	Oil, Synthetic PAO, Bearing & Gear, AGMA 7, ISO VG 460, Minman VI 150	Oli, Synthetic PAO, Brusting & Gear, Non-EP ASMA 5, ISO VG 220	DB, Synthetis PAO, Bearing & Great, Nort-EP, ISO VG 150	Olf, Synthetic PAD, Bearing & Gear, Non-EP, R&O, ISO VG 100, Minimum VI 130	Oll, Synthetic PAO, Air Compressor, ISO VG 88, Minimum VI 140	Oil, Synthetic PAO, Air Compressor, ISO VG 48	Oll, Symbatic PAO, Air Compressor, ISO VG 32	Oll, Synthetic polyol ester, ISO 22/32, VI 130, industrial Gea Turbine Lubricant	ON, Synthelic (PAO) Polyakylane Glycol, Air Compension, Rolany Seraw, ISO VIO 32/46, Minimum VI 150	Oli, Mineral, Genr, EP, AGMA 2EP, ISO VG tal, Mineram VI 86	Off, Mineral, Grain, EP, AGMA 4EP, ISO VG 150, Wintern VI 95	Od, Mineral, Geer, EP, AGMA SEP, 1800 VIS VG 220, Minimum VI 95	Oll, Mineral, Gear, EP, AGMA 6EP, ISO VG 320	Off. Mineral, Gear, EP, AGMA 7EP, 1SO VG 460, Minimum VI 85	Off, Mineral, Gear, EP, AGMA BEP, ISO VG 680, Minimum VI 95	Of, Mineral, Gear, EP, SAE 80W-80, API GL-6	ON, Synthetic PAO, Gent, EP, SAE 75WED, API GL-5	OII, Synthatic PAO, Gaar, EP, SAE 80N/140, API GL-5	ON, Synthetic PAO, Gear, EP, AGMA 4EP, ISO VIG 150
20 E	I	ž		I	1	1	No.		time.	Time.	100	Pegn	P-802	P-503	P-504	P-505	900-4	P-807	P-608	P-609	P-610

Attachment 1 - PacifiCorp Lube Oil Techincal Specification
This specification to be used for all Berkshire Hathaway Energy affiliates except MidAmerican Energy

Ocuments																
Rusel Theat (Disciso)	seed	pand	pass	sand	Pass ASTM D1743	paes ASTM D1743	PEN ASTM Dr743	PBBs ASTM D1743	Passa ASTM D1743	pass ASTM D1743	pesa ASTM D1743	pass ASTM D1743	Para ASTM O1743	ASTM D1743	pass ASTM D1743	Pess ASTM D1743
O Target	#	ŧ	ę	₽												
Powering Toyolomay (ASTIN DREZ Seq D (mi-mi)	saud	pess	and.	seed.	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
The Part of the Pa					not applicable	not applicable	not applicable	net applicable	nok applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	rrot applicable
RPVOT GASTRI CZZZZZ (Trainuties)					not epplicable	not applicable	not upplicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	eldecilique los	not applicable
Mark and Market and Ma					not applicable	not applicable	not applicable	not applicable	nol applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
Color (AstTal	0,1	1.0	G.T.	1.0	Dark Amber Vlausi	Amber Visual	Arriber Visual	Red Visual	Amber Visual	Gray-Black Vausi	Red Visual	Tan Visual	Red Vieual	Green Visual	Emeral Green Visual	Purple Visual
Elemental	Phosphorus 288 - 432 PPM, Suthur 5600 - 8400 PPM, Zhe 5 PPM	Prospherus 238 - 432 PPM, Sulfur 6800 - 6400 PPM, Zine 5 PPM	Phospherus 28:3 - 432 PPM, Sulfur 6900 - 6400 PPM, Zhe 5 PPM	Phospherus 263 - 432 PPM, Suffur 6800 - 8400 PPM, Zinc 5 PPM												
Plant point T (ASTM Diet)	464F (COC)	464F (COC)	484F (COC)	464F (COC)												
Pear Point & (Astra Day)	iş.	#	-385	435	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
Ţi	Ē	Ë	\$	162		8	8	104	88	98	98	98	88	7	135	140
	29.0	28.0	48.9	5.53	142	18.5	16.5	Q#	11	44	28	18.8	121	11.6	4	24.6
Message of the control of the contro	218	319	£83	989	>3200 with polymer	195	196	S	180	180	400	218	110	128	420	DZZ
Conscottilige Product Name	Syncan EP Plus Gear Of 220	Synoon EP Plue Gear Off 320	Byncon EP Plus Gear Oil 480	Syncon EP Plus Geer Of £30	Coupling Gresse	Dynaffie L-EP 4000 Gresse	Dynalite L-EP #2 Greene	Dynalife HT #2 Greater	Super-STA #2 Greece	Super-STA M #2 Greens	Terra HD	Onniguard #2 Oreses	Polytac #2 greess	Polytac EP #2 greates	Triton ELL Gresso	Triton 220 #2 Greens
Ouidelines	Conmonty used in moderately leaded genthrose operating in temperature actions; and requiring EP oil	Community used in heavily loaded and/or slow speed gestboxes operating in temporature extremes and requiring EP oil	Commonly used in very heavily loaded and/or stave speed gentloose operating in bersperature extremase and recuting EP of	Correnantly used in very heavily loaded and/or slow speed gesthoses operating in terryaelature actremes and requiting EP oil	For medium and high speed couplings.	Commonly used in geurboxes where oil leakage is a problem	Commonly used in plan and reling-element bearings and other instantial equipment where operating temperatures and loads are moderate	Commonly used in heavily- loaded plein and rolling-element bearings operating at moderate to high temperatures	Commonly used in moderately loaded plain and rolling-element bearings in instruction experience.	Commonly used in moderataly loaded plain and rolling-element bearings in industrial equipment subjected to heavy or shock leading	Commonly used in heavily loaded, slow-to medium-speed bearings	Commonly used in industrial and automothe equipment operating in wet or correative environments	Compatibility check required on any replacement greates.	Correstibility check required on any replacement greese,	Commonly uses in industrial gastrooms operating at high temperatures where oil lessings in a problem	Commonly used in medium- speed bearings in industral equipment operating in extreme bemperature range
Gernerio Lubrinard Spacification	OII, Byntretic PAO, Geer, EP, AGMA SEP, 180 VG 220	Off, Bynthetic PAO, EP, AGMA 6EP, ISO VG 320	Oll. Synthetic PAO, Geer, EP, AGMA 7EP, ISO VG 460	Oil, Synthetio PAO, Gear, EP, AGMA 7EP, ISO VG tild	Greate, Mineral Off Base, Minerum ISO VG 3200 (with Polymen), Lithium Soap or Lithium Cemplex Thiolenner, Coupling Greate, EP, R&O, NLGI Orl	Gresse, Alineva OB Base, Minimum ISO VG 160, LiftAum 12-Nydroxyateannie Thiotener. Multipurpose, EP, R&C, NLCI 000	Green, Mineral Ot Base, Merinum ISO VG 160, Metinum VI 80, Libium 12-Hydroxysteambe Thiolesses, Multipurpose, EP, R&C, NLGI 2	Gress, Mineral Of Gaee, Minimum ISO VG 575 (with polymer), Minimum VI 80, Librium Cenyeke Thickener, Muliforpose, EP, R&O, NLGI 2, GC- LB cerifised	Grosse, Mineral Ol Base, Mintmun ISO VG 190, Minimum VI 95, Lithlum 12-thydrocystearate Thiotomer, Multipurpose, EP, R&C, NLGI 5	Grasse, Mineral Oll Base, Mineran ISO VG 190, Mineran VI SS, Likhan 12-Aydroopalearnta Thiotener, Malijourpose, EP, R&D, 1% molydearum disulfile, NLOI 2	Greiche, Mineral Of Base, Minhmum ISO VG 400, Miteimam VI B0, Lithium Complex Thickense, Multiplupose, EP, R&C, NLGI 2	Gresse, Minaral Oll Base, Mihimum 160 VG 180, Calcium Sulforate Thickener, High Temparatura Gresse, EP, R&O, NLGI 2, GC-LB certified	Greese, Mirzell Ol Bess, Mirimum ISO VG 100, Minimum VI 86, Polyuse Thickerse, High Temperature Greese (Range -20 to 400F), Ball & Refer Besting Greese, (Range -20 to 400F), Ball &	Grees, Mineral Off Base, Minimum ISO VG 100, Minimum VJ 70, Polyurea Thickener, EP, R&O, NLG1 2, GC-LB certified	Grees, Syribolic Oll Base, PAO, Mirimun ISO VG 400, Minimum VI 140, Libisum Complex Thiblener, Low temperature greese (Range -50 to 2795) EP, RAIO, NLG19 00	Greese, Syrtheio Oli Base, PAO, Mahmun ISO VG 190, Mahmun VI 130, EP. R&O, Wide Tenperakan Range, Lithlan Complex Thickerer. NLCs 2
0 0 0	Petri	P612	Petis	P-614	140	ş	(0)/6	100+o	5,634	*	9)%-6	(Day	SOP-4	)09rd	61994	ě
		-1	TVIII									9866	-9°			

Attachment 1 - PacifiCorp Lube Oil Techincal Specification
This specification to be used for all Berkshire Hathaway Energy affiliates except MidAmerican Energy

Comments					
Past Tea (Desert)	Perst ASTW D1743	1	1	i	888d
Cu Strip That (Orisio)		4	4		
Foaming Tendency (ARTH DE12	not applicable	not applicable	not applicable		
September Tack (ASTN D1401) minimizal	Paringes)	nol applicable	not applicable		
MPVOT (ASTN (ASTN (ASTN)	1 2	rod applicable not applicable	not applicable		380
par (bless only andmined one (bless		not applicable	nd applicable	i	
Color (ASTM D48009	Purple Visual	Black vinual	Bitack vieusal	in es	5'01
Elemental					SOOF (COC) No mitalic additives
Pleath point of (ASTM DBQ)		>250F with ackent	>199F with activent	363 (PMCC)	300F (COC) N
Pour Point TP Flesh point TP (ASTALDED)	not applicable	not applicable	not epplicable	*9	288
Viscosity	包	nd applicable	not make a second	20	92
A STATE	53	1000-2200 w/o solvent	1000-2200 w/o anlwerk	tes	2.3
Memorite Wisconsity & AUTO (ASTTA DAMS) (SST)	999	4000-6000 with solvers	900-1600 with solvent	34.2	, so
ConceePhilips Product Name	Triben 480 \$1.5 Gmiree	Gear Shield NC	Gear Shield NCW	Soltáje OR	Transformer Oil
Guitalines	Commonly used for lubrication of low to medium speed bearings in industrial and mobile equipment operating under hower loads and/or wet conditions.	Primarily for the kibrication of open and servi-entipsed gears or for guides and stiding stuffaces with large clearances	Primarily for the lubrication of open and semi-enclosed gears or for guides and skiling eurinose with large clearances	Light-duty melalworking fluid for light-to medlum-sky cubing and grinding of ferrous and non- ferrous me; sie	Electrical knuleting of for use in oil knuleting of for use in oil knuleting of changers and others, because of others of others.
Generic Lubricant Specification	Greese, Syrthetic Oll Base, PAO, Michann ISO VG 400, Minimun VI 130, EP, R20, Wide Temperature Range, Lithum Complex Thelleher, NLGI 1.5	Gressia, Mihraria Oil and Asphalido Bases, Asphalibo Vol 2000; Usono State Sgarfor, Cypan Gaser. Wat Control Control Landscare, R.D. Antiway. El- Specification of Willhold Schwart but in contain New-Chiprinted Everporative Schwart, usatish laws-Chiprinted Everporative Schwart, usatish laws tarmp. marge to 6257.	Greate, Mirard OS and Apphalico Base, Asphalido Asobo- a Soto-1-0,000 B Usagarier, poyen Caerr Lubricant, RACA, Arthews, EP — Specification Willioud Solvent but to unratin Nen-Chlorinsiad Emporative Solvent, usable low terre, mape to OF (Netting grade).	CB, Solube, Chlorine-free, Ennaisifyling, 3-10%. mix rate oil to valler, ISO VG 46.	Oli, Dielectrio, Transformer, ANSIASTTA D3487- 08 Type II heilibled Oli GE A13A3A2 (10CA). W. «Inghouse Specification PDS SS822AG, Nor- carceive by ASTM D12759
Oil Spec	P612	819-0	P-614	Ť	Ž
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MEC Of Specification N	tumber Status	Generic Lubricant Specification	Relevant OEM Endorsements or Specifications	ASTM 6158 - Hydraulic Oil Type - HV
MEC-001	Activa	Oil, Mineral, Hydraulic, Fluid Power Transmission, Antiweer, R&O, ISO VG 32, High Viscostly Index, Minimum VI 135, Low Pour Point < -38 F	Dention (HF-0 HF-1 HF-2) Cincinnet Mechine P-53 (ISO 32) Eaton Victors I-255-S Eaton Victors M-2950-S	ISO 11168.2009 Family It (hydraulic Systems), Type HV ISO 4408 21/19/16 class ASTM D 1401 - Demulsibility Test - < 15 minutes to pass ASTM D 1601 - Demulsibility Test - < 15 minutes to pass ASTM D 1622 - Fearm Test - pass ASTM D 1620 - Copper Corrosion - 1s ASTM D 1024-Dept - Oxidation Stability - TOST - > 5000 hours to 2.0 mg KOH/g ASTM D 0272 - Oxidation Stability - TOST - > 5000 minutes ASTM D 0872 - Diselectic Strangth - > 35kv ASTM D 0872 - Diselectic Strangth - > 35kv ASTM D 0874 - Acid Namber - < 0.38 mg KOH/g ASTM D 0879 - Dury Point - < - 39 Zino - < 430 ppm (if antiwear additive contains zino.)
MEC-002	Active	Oil, Mineral, Hydraulio, Fluid Power Transmission, Antiwear, R&O, ISO VG 63, Minimum VI 95, Pour Point < -20 F	Denison (HF-0 HF-1 HF-2) Cincirred Mechine P-U3 Eaton Vickers P-28-5 & M-2950-S Eaton Vickers M-2950S	ASTM 6158 - Hydrau8c Oli Type - HM (refined mineral oil with R&O and AW) ISO 11158-2009 - Family H (Hydrau8c Systems), Type HM ASTM 01-401 - Enswishlifty Test - 10 minutes to pass ASTM D82 - FoemT set - pass ASTM D82 - FoemT set - pass ASTM D82 - FoemT set - pass ASTM D930 - Copper Correction - 1a ASTM D 030 - Copper Correction - 1a ASTM D940-04a - Oxidation Stability - TOST -> 5000 hours to 2.0 mg KOH/g ASTM D227 - Coxidation Stability - RPVOT -> 270 minutes ASTM D974 - Acid Number - < 0.38 mg KOH/g ASTM D974 - Pour Pout = < < 0.29 ZhO - < 430 ppm (if antiwear additive contains zinc.)
		Grease, Mineral Oil Base, ISO VG 220, Minimum VI 90, Lithium Complex	ı	ASTM D 495D Ctemetication GC-LB for Automotive Service; Pase - ASTM D 1743 - Rust Protection; 1b - ASTM D 4046 - Copper Corrosion; >95 hours - ASTM D 3527 -
MEC-003	Active	Thickener, Multipurpose, EP, R&O, NLGI 2 -  (This specification duplicated MEC-110, so MEC-110 was consolidated into it to make MEC-110 an open specification.)		Wheel Beitring Lib; 45% - ASTM D 1284 - Water Washout, % lose @ 175°F, 45 lbs - ASTM D 2509 - Timben OK Load, bb; 250 kgf - ASTM D 2596 - Four-Ball EP, Weld Load, kgf; 0.45 mm - ASTM D 2266 - Four-Ball Wear, mm, 1/kr, 75°C, 1200 pm, 40kg
MEC-004	Active	Oil, Mineral, General Purpose, Geer, AGMA 7, Non-EP, Antiwear, R&O, ISO VG 480, Minimum VI 95	NA	<20 "F - D 5850 - Pour Point, "F; 1b - ASTM D 130 - Copper Corrusion, 3 hru @ 212"; F Pea- ASTM D 6850 - Rust Teet; 2100 hours - ASTM D 945 - Oxidiation Stability Hours to 2.0 mg KOHlyg acid rumber, "20 mhrubas - ASTM D 1401 - Emulsion Teet, mixrus; 00 - ASTM D 692 - Fourn Teet, Sequence II millioem et 210 mhrubas - ASTM D 692 - Fourn Teet, Sequence II
MEC-005	Active	Oil, Mineral, Gear, EP, AGMA SEP, ISO VG 220, Minimum VI 95	Bosch Rexroth (Listing); Boston Gear (Listing); David Brown (Approval); Deniell (Listing); FAG (Listing); Fall (Listing); GML 92-2; Lorzes AG (Approval); Minter Machine Company (Approval); Morgan Construction (Listing); Musifer Weingarten (Listing); Rezpord-Staphen (Approval); Westetia	Pass - ASTM D 8658 - Rust Test; 70 lbs - ASTM D 2782 - Timken OK Load, lbs; 45 kgf and 250 kfg - ASTM D 2783 - Four-Ball EP Load Wear Index, kgf amd Weld Point, kgf
MEC-006 MEC-007	Active Active	Oil, Mineral, Gear, EP, AGMA 7EP, ISO VG 460 Minimum VI 95 Oil, Mineral, Gear, EP, AGMA 8EP, ISO VG ∜30, Minimum VI 95 Oil, Mineral, Turbine and General Purpose, R&O, ISO VG 32, Minimum	(Approval); US Steel 224  General Electric GEK 28143A; General Electric GEK	
MEC-GOB	Active	VI 100, Filtered to meet ISO 4406 cleanlinese code 16/15/12.  Lubricants that meet MEC-036 will meet this specification only if the the oil is fittered to meet ISO 4406 16/16/12.	ISO 8063; Siemene/Mannesmann Demag 800 037 98; Man Turbo SP 079984 D0000 E99	ASTM D 4304, Type I (non-EP); DIN 51515 Part 1; ISO 8069;
		Oil, Mineral, Hydraulic, SAE 10W or ISO VG 32, Minimum VI 105	Mack EO-K/2 & EO-K; Detroit Diesel Corp. Two Cycle; Caterpillar TO-2	
MEC-009	Active	(This specification duplicated MEC-082, so MEC=-92 was consolidated into it making MEC-092 an open specification.)	API CF; MIL-L-2104 B, C, D, E, F; MIL-L-46152E; Alleon C-4, C-3; CAT TO-2; Vickers 35VQ25 MIL-L-2104F(G) DOD CIDA-A-52306 Cummins NTC	
MEC-010	Active	Oil, Mineral, Engine, SAE 30 API CF, CF-2, CD, CE, CD-II -SG-SH-SJ (MEC-024 was consolidated into MEC-010.)	MILL-2104F/G; MIL-L-46152; DOD C1DA-A-52306	
MEC-011	Active	Oil, Mineral, Engine, SAE 15W40 API CG-4,CE,CD-II,CF-4,CF-2-CF. SH,SG-EC-8J	Mil-L-2(04P/G; Mil-L-96162; DOD C10A-9-2206 Mack EO-K/2 & EO-K; EO-L; Cummins NTC 400; Caterpliar TO-2; Alison Type C-4 Fluid	
MEC-012	Active	Fluid, Automatic Transmission, Mercon & Dexron III Grease, Mineral Oil Base, ISO VG 220, Minimum VI 80, Lithium Complex	DEXRON-II; MERCON	
MEC-013	Active	Thickener, Multipurpose, EP, R&O, High Temperature, Minimum Droping Point 450 F, NLOI 1 Grease, Mineral Oli Bese, ISO VG 160, Minimum VI 80, Lithium Complex		
MEC-014	Active	Thickener, Multipurpose, EP, R&O, NLGI 0 (Same as MEC-124, except for thickener and AW.)		
MEC-015	Active	Gresse, Synthetic Oil Base, PAO, ISO VG 220, Minimum VI 109, Aluminum Complex Thickener, Food-Grade NSF H-1, -40 F to 320 F, ED BAO, M GI 2		
MEC-016	Active	Oil, Mineral, Gear, ISO VG 150, Minimum VI B5, EP, AGMA 4EP, SAE 90 (was Oil, Mineral, Gear, EP, AGMA 5EP, SAE 90V/SO)	MIL-L-2105D; API GL-4; Mack GO-H; PG-2; Rockwell 0-76-D; AMGA 4EP MIL-PRF-2105E; API GL-5	
MEC-017	Active	(MEC-078 was consolidated into MEC-016.)  Oil, Mineral, Gear, EP, AGMA SEP, SAE 85W-140, API GL-5	MIL-PRF-2106E; API GL-5, MT-1; Mack GO-J, GO-	
MEC-018	Active	Oil, Mineral, Air Compressor, Antiwear, R&O, Demulsifying, ISO VG 100,	H, GO-G; ArvinMeritor O76-A; AMGA 5EP Atias Copco, Dresser Rand, Sullair, Compare requirements for rotary screw and vane compressors.	
		Gresse, Mineral Oil Besse, ISO VG 3200, Minimum VI 130, Lithium Soep	Coupling Greese must meet the requirements of the following	
MEC-019	Active	or Lithium Complex Thickener, Coupling Grease, NLGI 0/1  Grease, Synthetic Oil Base, PAO, ISO VG 480, Minimum VI 130, Lithium	Industry specifications: ANSI/AGMA Standard 9001- 897, Type CG-1 and CG-2 for medium- and high- speed couplings.	
MEC-020	Active	Complex Thickener, Multipurpose, Wide Temperature Range, EP, R&O, NLGI 1.5 to 2		
MEC-021	Active	This specification is a duplication of MEC-121.  Oit, Synthetic PAO, Geur, EP, AGMA 5EP, SAE 75WB0, API GL-5	MIL-L-2105D-API GL-5; Mack GO-G/S and GO-H/S- GE; 1050E9C; Rookwell 076E and 076B	
MEC-022	Active	Oll, Mineral, Gear, EP, AGMA SEP, ISO VG 100, Minimum VI 95 Oll, Synthetic, PAO, Air Compressor, non-EP, ISO VG 63, Minimum VI	Performance and specifications must equal or	
MEC-023 MEC-026	Active	140 ( MEC-052 was consolidated into MEC-023) Gresse, Mineral Oil and Asphaltic Besse, Asphaltic VG 500 SUS@21DF, Mineral Oil ISO VG 820 (200 SUS@210 F), Open Gear Lubricant, R&O,	exceed Mobil SHC-828.	
		Antiweer, EP - Specification Without Solvent but to contain Non- Chlorinated Evaporative Solvent	Performance and specifications must equal or	
MEC-028	Active	Oil, Synthetic, PAO, Gear, AGMA 7, ISO VG 460, Minimum VI 150 Oil, Minaral, General Purpose, Antiwear, R&O, ISO VG 220, Minimum VI	exceed Mobil SHC-634.  Denison HF-1 & HF-2A; T6-C; Vickers I-288-S & M-	
MEC-027 MEC-028	Active	95 Grease, Synthetic Oil Base, Silicone, ISO VG 316, Minimum VI (ENTER), Carbon Black Thickener, Bearing, Extreme High Temperature Service,	2950-S; Cincinnati Milacron P-86, P-€9 & P-70	
MEC-029	Active	Service Temp Range -18 to 288 C (0 to 500 F), R&O, NLGt 2 Oil, Synthetic, Tri-Aryl Phosphate Ester, Hydraulic, Fire-Resistant, EHC -	GE Spec D5QA128-S1	
MEC-030	Active	(See also MEC-146.) Oil, Synthetic, PAO, Bearing & Gear, Non-EP, ISO VG 32, Minimum VI	Performance and specifications must equal or exceed Mobil SHC-624.	
MEC-031	Active	(not yet specified) Oil, Mineral, Gear. EP, AGMA 6EP, ISO VG 320, Minimum VI 95 Grease, Mineral Oil Base, ISO VG 220, Multipurpose, Lithium Complex	чисть принатичем.	
MEC-032	Active	Thickener, High Temperature, Auto-Luber, EP, R&O, NLGI 1 (Must be same grease as MEC-013)		
MEC-033	Active	Oil, Synthetic (PAG) Polyakylene Glycol/Ester Bland, Air Compressor, Rotary Screw, ISO VG 63, Minimum VI 200	Performance and specifications must equal or exceed ingersol Rand IR Ultra Coolant.	
MEC-034	Active	Dil, Mineral, Straight Paraffinic, Flushing, ISO VG 15/22, Minimum VI 90 (MEC-044 was consolidated into MEC-034.)		

### Attachment 2 - MidAmerican Energy Lube Oil Technical Specification MidAmerican Energy short specification

				ASTM D 92 Finah Point - > 525 F
MEC-035	Active	Oil, Synthetic Polyol Ester, Hydraulic, Fire-Resistant, ISO VG 46, Minimum VI 140	Performance and specifications must equal or exceed Qualter Quintolubric 822-220 or 698-46, which has replayed 822-220.	ASTM D92 Fine Point -> 615 F DIN 51794 Auto Ignition Temperature -> 840 F (Fire resistance properties certified by Factory Mutual.)
MEC-038	Active	Olt, Syrthetic, PAO or Hydrocarbon and Ester Blend, Gear, AGMA 5, Non-EP, R&O, Minimum VI 132, ISO VG 220 Graese, Mineral Oil Base, ISO VG £10, For Low Speed Bearings, Heat,		,
MEC-037	Active	Steam, and Water Weilhout Resistant, High Temperature, Aluminum Complex, EP, R&O, NLGI 2 Oli, Mineral, Hydraulic & General Purpose, Non-Antwear, R&O, ISO VG		
MEC-038	Active	<ol> <li>Minimum VI 95 (MEC-008 Turbine Oil may be used to meet this specification.)</li> </ol>		
MEC-039	Active	<ol> <li>Mineral, General Purpose, Antiwear, R&amp;O, ISO VG 100, Minimum VI 95 (This specification is almost identical to MEC-018 and they should be combined.)</li> </ol>		
MEC-040	Active	Oil, Mineral, Chain & Cable Lubricant, ISO VG 22-32, EP, -10 F to 300 F Operating Temperature, > 260 F Flash Point		
MEC-041	Active	Oil, Wineral, Hydrautic & General Purpose, Non-Antiweer, R&O, ISO VG 320, Minimum VI 95		
MEC-042	Active	OII, Synthetic, Diester, Air Compressor, Reciprocetting, ISO VG #3, Minimum VI 84	(Must be equivalent to Atlas Copco Roto Z Compressor Oil)	
MEC-043	Active	Oli, Mineral, Hydraulic & General Purpose, Non-Antiwear, R&O, ISO VG 63, Minimum VI 105		
MEC-045	Active	Oil, Mineral, Straight Naphthenic, Bearing & Light Gear, Fluehing, ISO VG 150, Minimum VI (not yet specified)		
MEC-048	Active	Oil, Mineral, Gear, ISO VG 150, Minimum VI 95, EP, AGMA 4EP, SAE 90 (This spec appears to be a duplicate of MEC-016.)	)	
MEC-047	Active	Grasse, Minerat Oil Base, ISO VG 220 to 480, Minimum VI 80, Lithium Soap Thickener, Plus 3% Molybdorium Disutfide, EP, R&O, NLGI 2		
MEC-048	Active	Gnasse, Mineral Oil Base, ISO VG 45, Minimum VI (ENTER), Lithium Scap Thickener, Multipurpose Grease, Electric Motor Bearing Grease, Low-Noise Grease, Non-EP, R&O, NLGI 2		
MEC-049	Active	Oil, Mineral, Gear, Drive Train and Transmission, SAE 30W	Caterpillar TO-4; Allison C-4	
MEC-050	Active	Grasse, Mineral Oil Base, ISO VG 22, Minimum VI (ENTER), Caldum Soap w/ Graphita Trickener, Rail Curve & Wheel Flangs, NLGI 1/2	Graphite content must equal or exceed 12 %.	
MEC-051	Active	(not yet specified)	Performance and specifications must equal or exceed Mobil SHC-529.	
MEC-053	Active	Grasse, Mineral Oil Bess, ISO VG 120, Minimum VI 95, Synthetic Polyunsa & PTFE Trickener, EP, R&O, NLGI 2, High Temperature		
MLO-000	70000	Performance = Pass at 500 hours - 10,000 RPM @ 450°F, Water Washout, % loss, @ 175°F, (typical) ASTM D 1284 <5%		
MEC-054	Active	Oil, Mineral, Turbine, General Purpose, Non-Antiwear, R&O, ISO VG 100, Minimum VI 100 (Duplicate of MEC-125)		
MEC-055	Active	Oil, Mineral, Hydraulic & General Purpose, Non-Antiweer, R&O, ISO VG 150, Minimum VI 95 (MEC-082 was consolidated into MEC-055)	Denison HF-1; Vickera 286-S; Cincinnati Milacron P- 38, P-54, and P-55,	
MEC-056 MEC-057	Active Active	Oil, Synthetic, PAO, AGMA 6EP, ISO VG 320, Minimum VI 170 Oil, Synthetic, PAO, AGMA 8A, ISO VG 1000		
MEC-058	Active	Oil, Synthetic, (TYPE), Geirr, AGMA B, Minimum VI (), ISO VG 630	Denison HF-Q & HF-2; Vickers I-286-S and M-2950-	
MEC-069	Active	Dil, Mineral, Hydraulic & General Purpose, Antiwess, R&O, ISO VG 48, Minimum VI 135, Wide Temperature Range	S; Racine Model S; and, Cincinnati Milacron P-63, P-69, and P-70 for vane, piston or gear type pumps.	
MEC-080	Active	Oll, Mineral, Hydraulic & General Purpose, Non-Antiwear, R&O, ISO VG 220, Minimum VI 90		
MEC-081	Active	Oil, Mineral, Hydraulic & General Purpose, Non-Antiwear, R&O, ISO VG 460, Minimum VI 90		
MEC-084	Active	Oll, Mineral, Hydraulic & General Purpose, Non-Antiwear, R&O, ISO VG 48, Minimum VI 105 (Duplicates: MEC-084, MEC-088 and MEC-119.)	Denison HF-1; Vickers 286-8; Cincinnati Miscron P- 38, P-54, and P-55. GE GEK-48508A; SAE-ARP Class 6 & NAS 1638 Class 9 w/o Lift Pump; SAE- ARP Class 4 & NAS 1638 Class 7 w Lift Pump	
MEC-065	Active	Oil, Mineral, Engine, SAE 40, U.S. Military MIL-PRF-2104G, CF-2, CG4, SJ		
MEC-088	Active	Oil, Synthetic, PAO, Gear, AGMA 5EP, R&O, Minimum VI 150, ISO VG 220		
MEC-087	Active	(MEC-103 was consolidated into MEC-063) Oil, Synthetic PAO, Air Compressor, Gear, Non-EP, R&O, ISO VG 100, Minkmum VI 130 (Duplicates MEC-108)		
MEC-069	Active	Dil, Synthetic, PAO, Hydraulic, Non-Zinc Antiwear, R&O, ISO VG 22, Minimum VI 130	Denison HF-1 & HF-2A; Vickers I-288-S and M-2950- S; Cincinneti Milacron P-88, P-69, and P-70.	
MEC-070	Active	AGMA 7, ISO VG 460	Performance and specifications must equal or exceed Conoco Inca Oil 460.	
MEC-071	Active		Performance and specifications must equal or exceed Conoco tnos Oil 680.	
MEC-072	Active	Scap or Utilium Complex Thickener, EP, RSO, NLGI 1 Greace, Synthetic Oil Base, PAO, ISO VG 480, Minimum VI (ENTER),		
MEC-073	Active	Lithium Complex Thickener, EP, R&O, NLGI 00 Grease, Mineral Oil Base, ISO VG 460, Minimum VI 95, Bentonite Clay		
MEC-074	Active	Thickener, High Temperature Grense, EP, NLGI 2 (Except for NLGI Grade, this grease is the same as MEC-122.) Grease, Mineral Oil Base, ISO VG 460, Minimum VI 95, Calcium		
MEC-075	Active	Sulforate Thickener, High Temperature Grease, Water Washout Resistant Grease, EP, R&O, NLGI 1		
MEC-078	Active	Grassa, Mineral DI Base, ISO VG 480, Minimum VI 95, Calolum Sulforata Thickener, High Temperature Grasse, Water Washout Resistant Gresse, EP, R&O, NLGI 2		
MEC-077	Active	Gresse, Synthetic Oil Base, Silicone, ISO VG (ENTER BASE Oil. GRADE), Minimum VI (ENTER), Extreme High Temperature, NLGI 3	Performance and specifications must equal or exceed Dow Coming 111 Valve Lubricant.	
MEC-079	Active	Oil, Mineral, Hydrautic & Fluid Power Transmission, ISO Oil Type HM,	Denison HF-1; Vickens 288-S; Cincinnati Milacron P- 38, P-54, and P-55.	
MEC-080	Active	Gresse, Synthetic Oil Base, Polyalkene Glycol, ISO VG 160, Minimum VI (ENTER), Gear, Lithium Soap Thickener, Semifluid, NLGI 00	Performance and specifications must squal or exceed Shell Tivels Compound A lubricant.	
MEC-087	Active	Oil, Mineral or Synthetic or Synthetic Blend, Engine, SAE 10W30, ILSAC GF-5, CF-2, Chryster MS-6395 (Rev. T)		
MEC-091	Active	Oil, Synthetic, PAD, Gear, AGMA 7EP, Minimum VI (), ISO VG 480		
MEC-093	Active	Gresse, Synthetic OI Base, PAO, ISO VG 32, Minimum VI 140, Organic Clay Thickener, Wide Temperature Range (-50 C to 180 C), NLGI 1,5	Performance and specifications must equal or exceed Mobil Temp SHC 32.	
MEC-094	Active	Oil, Minerel, Multipurpose, Transmission & Hydrautic, Tractor Final Drivs, ISO VG 62, Minimum VI 145 - See OEM Spacification Requirements	- AGCD Power Fluid 821/L, C-1628, C-1802 (Type 55 Fluid), C-170183  Case H MS1210, MS1209, MS1207, MS1209 (MS1207, MS1208 H MS1210, MS1209, MS1207, MS1208 H MS1207, MS1208 H MS1207, MS1208 (Type 10, MS1208), MS1208, MS1208, MS1208, MS1208, MS1208, MS1208, MS1209, MS1209	
MEC-096	Active	Grasse, Mineral Of Base, ISO VG 100, Minimum VI (ENTER), Lithium	Volko VME VMB 101 (VCE 1273.03)  ZFTE-ML 03E, 05F, 17E Performance and specifications must equal or exceed 8hell Cyprina RA Greese.	

## This Specification to be used for all MidAmerican Energy materials

## Altachment 2 - MidAmerican Energy Lube Oil Technical Specification MidAmerican Energy short specification

MEC-096	Active	Grease, Mineral Oil Base, ISO VG 1000, Minimum VI (630 cSt @ 40; 37 cST @ 100), Sodium Soap Thickener, Bearing Grease, NLGI 1	
MEC-097	Active	Oil, Synthetic, PAO, Air Compressor, ISO VG 45	
MEC-OBB	Active	Oil, Synthetic, Diester, Air Compressor, ISO VG 150, Minimum VI 95	
MEC-099	Active	Greese, Soy Oil Base, ISO VG 86, Minimum VI 200, Rail Curve & Whee Flange, NLGI 1 (Conforms to State of Iowa Senate File - SF 2185 and SF 2248 Purchasing Preference for Biobased Lubricants)	
MEC-100	Active	Oil, Mineral, Hydraulic & Fluid Power Transmission, ISO Oil Type HM, Zinc-Free Antiwear, R&O, ISO VG 45, Minimum VI 100 (MEC-132 was consolidated into MEC-100.) Greaze, Mineral OI Base, ISO VG 100, Minimum VI 90, Synthetic	Denison 20-VQ, 35-VQ, and 104C vane pump tests.
MEC-101	Active	Polyurea Thickener, High Temperature Grease, Ball & Roller Bearing Grease, NLGI 2, MUST MEET LUBRICANT REQUIREMENTS OF GEK 46382F (MEC-101 is a near duplicate of MEC-117 and 135)	GE GEK 46382F
MEC-102	Active	Gress, Synthetic Oil Base, Silicone, ISO VG (ENTER BASE OIL GRADE), Minimum VI (ENTER), Coupling Gress	
MEC-104	Active	Oli, Synthetic, PAO, Hydraulic, Non-Zinc Antiwear, ISO VG 32, Minimum VI 135, Wide Temperature Range	
MEC-106	Active	Oil, Synthotic, Diester, Air Compressor, ISO VG 100, Minimum VI 95 Oil, Mineral, Drive Train & Transmission, SAE 10, Alison C-4, Caterpillar	
MEC-107	Active	TO-4, Euclid equipment, Kornatsu equipment, Victore (Estor) M-2950-5 ZF TE-ML D3C for foreque converter transmissions Grease, Synthetic OI Base, Diester, ISO VG 46 (3.1-3.4 @ 100 C),	
MEC-108	Active	Minimum VI (-100 F to +300 F), Inorganic Gel Thickener or Lithium Scap Low Temperature, NLGI 2	•
MEC-109	Active	Oil, Mineral, Engine, SAE 10W40, API SM / ILSAC GF-3 Grease, Mineral Oil Bass, ISO VG 62-100, Minimum VI 100, Aluminum	
MEC-111	Active	Complex Thickener, Multipurpose, High Temperature Grease, EP, R&O. NLGI 2	
MEC-112	Active	Greese, Synthetic Oil Base, PAO, ISO VG 63, Minimum VI 90, Aluminum Complex Thickener, Bearing Greese, EP, R&O, NLGI 2 Greese, Synthetic Oil Base, PAO, ISO VG 1350, For Heavily-Loaded	
MEC-113	Active	Low-Speed Bearings, Lithium Complex Thickener, EP, R&O, Antiwear, NLGI 1 Grease, Mineral Ož Base, ISO VG 100, Minimum VI (ENTER), Lithium	Performance and specifications must equal or exceed Mobilith SHC 1500.
MEC-114	Active	Scap Thickener, Multipurpose Gresse, Electric Motor Bearing Gresse, Low-Noise Gresse, Non-EP, R&O, NLGI 3	
MEC-116	Active	Oil, Mineral, Gear, EP, AGMA 2EP, ISO VG 63, Minimum VI 95 Grease, Synthetic Oil Base, PAO, ISO VG 100, Minimum VI 105,	
MEC-118	Active	Synthetic Polyurea Thickener, Ball & Roller Bearing, Non-EP, R&O, NLG 2 Oil, Synthetic, PAO, Hydrocarbon, Gelar, AGMA 4EP, ISO VG 150.	
MEC-118 MEC-120	Active	Cit, Wineral, Hydrautic & General Purpose, Antiwear, EP, R&O, ISO VG	Denison HF-0 & HF-2A: Vickers 286-S & M-2950-S:
	Active	100, Minimum VI 95 Grease, Synthetic Oil Base, PAO, ISO VG 220, Minimum VI 130, EP.	Cincinnati Milacron P-63, P-63, & P-70
MEC-123	Active	R&O, Wide Temperatrue Range, Lithium Complex Thickener, NLGt 2 Gresse, Mineral Oil Base, ISO VG 180, Minimum VI 80, Lithium 12-	
MEC-124	Active	Hydroxysteerate Thickener, Multipurpose, EP, AW, R&O, NLGI D (Same as MEC-014, except for thickener and AW.)	
MEC-126	Active	Gresse, Mineral Oil Bess, ISO VG 220, Minimum VI 80, Lithlum 12- Hydroxysteanate Thickener, Multipurpose, EP, R&O, NLGI 2 Oil, Mineral, Dielectric, Insulating, Transformer, ANSI/ASTM D3467-09	
MEC-127	Active	Type II inhibat Oil, GE A13A3A2 (10CA), Westinghouse Specification PDS 55622AG OIL, Mineral, Refrigeration Compressor, ISO VG 22-32 (SUS@100F =	
MEC-128	Active	160),	
MEC-129	Active	Oil, Mineral, Refrigeration Compressor, ISO VG 300 Oil, Synthetic, Polyalkene Glycol, Gear, ISO VG 680, Minimum VI 220,	
MEC-130	Active Active	Wide Service Tamperature Range: -25 to 160 C, Seel Compatibility: Nitrile (NBR) & Viton, OEM Approvals: Flender AG Grease, Synthetic Oil Base, (ENTER TYPE), ISO VG 320, Bentonite	
MEC-131		Thickener, High Temperature Grease, Food-Grade NSF Class H1, EP, R&O, NLGI 2  Oil, Synthetic, PAO, Industrial Gas Turbine Lubricant, ISO VG 32,	Allison Gas Turbine Division EMS-45, Cooper Industries Gas Turbines, General Electric Company
MEC-133	Numb	Minimum: VI 130 Oil, Synthetic, Polyalkena Glycol, Gear, AGMA 6EP, ISO VG 320,	Gas Turbines, Solar Turbines ES 9-224, Westinghouse Gas Turbines
MEC-134		Minimum VI 225, Wide Service Temperature Range: -25 to 180 C, Seal Compatibility: Nitrile Gresse, Synthetic Oll Base, Perlluoropolyether, ISO VG 1000 cSt @ 40,	
MEC-135	Active	85 cSt @ 100, PTFE Thickener, High Temp > 550F (Was an open spec - duplicated MEC-117 and MEC-101. Asked Jessen to make MEC-135 an open spec on 1/25/2012 and keep MEC-101.)	
MEC-136	Pictore	Gresse, Mineral Of Base, ISO VG 100, Minimum VI (11.5 cSt at 100F.) High Speed Bearing Gresse, Lithium Complex Thickener, R&O, NLGI 2	
MEC-137	Active	Greans, Synthetic Oil Base, PAO, ISO VG (ENTER), Minimum VI 120, Gel Thickener, High Temperature Greans, NLGI 2	
MEC-138	Active	Oil, Synthetic, Ester or Synthetic Organophosphate Ester, Non-EP, No Friction Reducting Additives, Wide Temp Range, MiL-L7808, MiL-L- 23639, ISO VG 30 (Nominal)	
MEC-139	Active	Oil, Synthetic, Diester, Air Compressor, ISO VG 32, Minkmum VI 130, Flesh Point 450 F, Pour Point -80 F	
MEC-140	70000	Gresse, Synthetic Oll Base, PAO, ISO VG 100, Minimum VI 150, Lithium Complex Thickener, AW, R&O, non-EP, NLGI 2	
MEC-141	Active	Gresse, Mineral Ol Base, ISO VG 100, Minimum VI ?, Barium Complex Thickener, Service Temp Renge -20 to 140 C. EP, NLGI 2	
MEC-142	Active	Grease, Synthetic OII Base, Sillcone, ISO VG 100, Lithium Soap Thickaner, Extrame Low Temporature Service, Service Temp Range -73 to 204 C (-100 to 400 F), R&O, NLGI 1 Grease, Synthetic OII Base, PAO, ISO VG 128, Minimum VI 180, Lithium	
MEC-143	Active	Greates, Symmoto Oil Esse, PAO, ISO VG 125, Warehart VI 180, Literam Scep Thickener, EP, NLGI 0, Special Thicotropic Grease for Stock Coal Feeder Gearboxes	
MEC-144	Active	Oil, Bio-Based, Distectric, Insulating, Transformer Grease, Synthetic Oil Base, Silcone, ISO VG 125, Lithium Scap	Equivalent requirements to MEC-127
MEC-146	Active	Greate, Systemic Of Base, Sacona, 150 VG 125, Ethium Scap Thickener, High Temperature Service, Service Temp Range -40C to 204 C (-40F to 400 F), R&O, NLGI 2	
MEC-148	Active 1	Oil, Synthetic, Tri-Aryl Phosphate Ester, Hydraulic, Fire-Resistant, EHC Fluid - Must Contain <4% TPP - (Same as MEC-028, except for the Imitation on TPP concentration)	GE Spacifications 46357 and D50A <b>126</b> Stemens (formerly Westinghouse) steam turbine EH control fluid apecification 53740AL

## This Specification to be used for all Michaelroen Energy materials Attachment 2 - Mid-American Energy Lube Oil Technical Specification Mid-American Energy kny specification

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ARI OERI I M. specification Derton H-O & H-O- Victor (sales)	Darkson HF-O. & HF-2; Victors (Eulon) 1- 20:96 & M-2050-5; Ruche Model B and Christmall Metchine P-80, P-80 & P-70 for Walls, pill-in or posit Nype purities. Darkson HF-O. & HF-2; Victors (Eulon) 1.	296-S & M-2850-S; Pincine Model S and Chrohmet Mechine P-88, P-89 & P-70 tor varm, diston or quer type pumpe.	€ .					GE GEK-16306.1				API 05-4.0E.IDNI.0F-4.0F-5-05; SHSG- EC-5-8, INAL-26196F9, UAL-46182.DOD CIDA-AZZOD Maris EO-4C2 and EO-4C ED-4, Cannaira NTC 400, Celenplin TO-2, F Alfron Type 0-4 Filed.	API COLACE CIDA COLA COLOS SESSORIOS ES AL BIOLA COLOS AL CONTRA COLOS AL CONTRA COLOS COLOS CONTRA COLOS CONTRA COLOS CONTRA COLOS CONTRA COLOS CONTRA COLOS COLOS CONTRA COLOS C	API OCA, CE, CDA, CE, ADS, GA, GA, GES, LINE, CESA, IRAC, ADRIGOR, MIAL-CARROZZOO CONTA-CESCO MANA ED-CAR CARROZZOO MANA ED-CARROZZOO CARROZZOO CARROZZO CA	API COLUE CINUCA (CR-4) CR-40	API COLUCE CITAL CR-4, C	API COL-KE CD-KCF-GF-GF-GF-GF-GF-GF-GF-GF-GF-GF-GF-GF-GF	API COL-KE CD-K, CF-4, C	API COLUCE CITAL CELLOS CELOS REGISTROS CONTRACTOR MALLOS APICOS CONTRACTOR MALLOS APICOS CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR APICOS APICOS APICOS CONTRACTOR APICOS APICOS CONTRACTOR CONTRACTOR APICOS APICOS CONTRACTOR APICOS APICOS CONTRACTOR APICOS APICOS CONTRACTOR APICOS CONTRACTOR APICOS APICOS CONTRACTOR APICOS APICOS CONTRACTOR APICOS	API COLUE CINA CR-4 CR-5CF; BN 50- ECSA, INAL-CARON, MAL-CARON, COLOR-CARON CINA-AZZON MAN ED-VIZ AND ED-VI ED-L, Cammers NTO-500, Color-plan TO-2, Alleon Type C-4 Flad.	API COLUE CINUCA (CR-4) CR-40 CR-40 (RA-40 CR-40	API COLACE CITALOF ALCES (1848-1842). COLOR-ACCODA MANA ELOYO ACCORDANCE (1847-2000). COLOR-ACCODA MANA ELOYO CARROTHE (170-2). Alfren 1792 CA TIME.	AP I CO-LCE.CIDL (CR-LCR-LCR-LCR-LCR-LCR-LCR-LCR-LCR-LCR-L
	and to	Olf, Mineral, Hydraulic & General Purpose, Antiwear, R&O, ISO VG 68, Minimum VI 85	Gresse, Mineral Oil Bese, 180 VG 220, Minimum VI 80, Lithlum Complex Thickener, Mulijaurpese, 1 EP, R&O, NLOI 2 (Sunna es MEC.110)	Off, Mineral, General Purposa, Anthwess, R&D, 130 VG 480, Melrium VI 85	L Mineral, Geer, EP, AGMA 5EP, 180 VG VG 3, Minimum VI 95	I, Mineral, Geor, EP, AGMA 7EP, ISO VG 480, Hinum VI 85	I, Mineral, Gear, EP, AGMA BEP, ISO VG 680, Innum VI 95	Off, Vinsend, Turbine, Steam, R&O, ISO VG 32, Minimum VI 100	Oil, Mineral, Engine, SAE 10W APP-CF2-SHS.J	Oil, Mineral, Engina, SAE 30 API CF. CF-2, CD, CE, CD-11 -5G-5H-SJ		Ol. Mineral, Engine, SAE 19M40 API CG. 4.CE.CDJ4,CF-4.CF-2ACF, 8H,SG-EC-SJ	200	nwa.	and the section	Animal property of the Color	Ol Mineral, Engine, SJE 1994(6) API CO. 4,CE,COM, GF-4,CE-5-CE, BH-450-GG-5.B.    PM, Automatic Transvehsim, Menens & Dozono,	Mineral Engine, SAE 199449 API CO.  2, 2014 (274-4,073-07; 814,00.60-03)  44, Automatic Transchlaum, Mercen & Dozono Marker (1994)  20, Lieban Congeller, Belevan (1900)  20, Lieban Congeller, Belevan (1900)  20, Lieban Congeller, Belevan (1900)  20, Marchander, Relationer, Maldagurosa, 1900, Marchanger, Maldagurosa, 1900, ALG (1994)  3, State (1900)  20, Marchan Congeller, Sandar (1900)  3, Sycholo (20 Bean, BATC) (1904)  4, Marchander, Read-Cardel MSF 141, 40 For Charles, 1904  4, Marchander, Read-Cardel MSF 141, 40 For Charles, 1904  4, Marchander, Andreway, Marchander, 1904  6, Charles, Andreway, Marchander, 1904  10, Charles, Andreway, Marchander, 1905  11, Charles, Andreway, 1905  11, Charles, Charles, 1905  11, Charles, Charles, 1905  11, Charles, Charles, 1905  11, Charles, Charles, 1905  11, Charles, 1905	Mineral, Englan, SAE 199448 API CO E.COLH, CPT-4,CPT-5,CPT, SH (200-4)C-8.1  fd. Antornatio Thansulation, Mercen & Dozoon fd. Libraton, Deplication, Shielesse, Mallipurpose, ph. Tellushon, Complete Distance, 180 Vio 250, Nethroun for Libraton, Complete Distance, 180 Vio 190, Micharom fol, Libraton Complete Thisteries, Mallipurpose, fol. Libraton Complete Thisteries, Mallipurpose, fol. Libraton Complete Thisteries, Redizerous, fol. Libraton Complete Thisteries, Redizerous, fol. Libraton Complete Thisteries, Redizerous, fol. Libraton, Complete Thisteries, Redizerous, fol. Libraton, Complete Distance, fol. Mineral, Ann Compression, Annihorm fol. Libraton, Complete Libraton, fol. Mineral, Annihorm Complete fol. Mineral, Annihorm Complete fol. Mineral, Annihorm fol. Mineral fol. Miner	Parties of the second s	Ol, Mineral, Englas, SAE 1994(0.14) CO. 4,CE,CD34,CF-2,CF2, SH-20-2,CB3.  Fluid, Automatic Transmission, Mencen à Dezono IIII  Chessa, Mencel Olissa, 180 Vio 250, Merimum Veta i Prospession, El-N RO, MGJ.  Vio Libban Complete, Tibberan, Malgarposa, Veta i Charles Complete, Tibberan, Malgarposa, Veta i Charles Complete, El-N RO, MGJ.  Vio Libban Complete, Tibberan, Malgarposa, Veta I El-N MGJ Olissa, SEIN OH 19 (Merimun) Vio Libban Complete, Tibberan, Malgarposa, Veta I El-N MGJ Olissa, SEIN OH 19 (Merimun) Vio Complete, Merimun OH 19 (Merimun) Vio Complete Comple	Mineral, Englan, SAE 199440 API CO.  R. COR 4, CP 4, CP 3, CP 3, EN SCRECES.)  If, Automatic Transultainin, Mencen & Dozone Man, Michael Old Base, 18D VO 200, Merimum M. Likham, Conglet Thishow, M. Midgappras, M. Likham, Conglet Thishow, M. Midgappras, M. Likham, Conglet Thishow, M. Midgappras, M. Likham, Conglet Sae, 18D VO 100 Merimum M. Sprinker, Conglet Sae, 18D VO 100 Merimum M. Likham, Conglet Sae, 18D VO 100 Merimum M. Likham, Conglet Sae, 18D VO 100 Merimum M. Likham, M. Conglet Merimum, Michael Merimum M. M. Likham Sae, 18D VO 100 Vol M. Likham Conglet Merimum, Midpappram, M. Likham, M. And L. S. Meriman, M. M. Likham, M.	Cl., Mineral, Engina, SAE, 1904.04.079 CO. 4.(E.E.D.S.), G.F., G.F3.C.F., S.H. 1904.02.07.0.  Clean, Miller Coll Bane, 10.D. 06.202. Melinium Nell Tubben College. This base of Meliparpow, 10. Mel. Libben College. This base of Meliparpow, 10. Mel. Libben College. This base of Meliparpow, 10. Mel. Libben College. This has been of 19 lists to Very 10. Melinium Williams and Meliparpow, 10. Melipar
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# The Specification to be used for all Michanician Energy materials Attachment 2 - MidAmerican Energy Lube Oil Technical Specification Michanican Energy tong specification

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=	ZS PPM			380 - 570 PFA	Phospharus 220 - 400 PPM, Suffer 5300 PPM			odfitives	Phosphorus 190 - 300 PPM, Bullur 200 PPM,	478F (COC) Phosphorus 1500 - 2100 PPM		edifives	1 2		25 PPM	dditives	ddithres	Phosphorus 220 - 400 PPM,	PPM.		Calcium 2180 - 2880 PPM, Phosphorus 830 -1016 PPM, Zhr 880 - 1210 PPM		My OTS - DEC stroughout!		ddilhes	Phosphorus 288 - 432 PPM, 8uffur 5600 - 8400 PPM, Zinc 5		osphorus 1500 - 2100 PPN	Calchum SOPPM, Phosphorus 340PPM, Suifur BOOPPM, Zin 385 - 430 PPM	M44 SZ	MHH SZ	Z5 PPM	deftives
ig specincalio	Phesphorus			Phospharus	Phosphorus Suffer 5300			No metalic additives		Phosphorus		Ne metalic edditive			Phosphorus 25 PPN	No metalfic additives	No majafic additive								No metalic additives	Phospharus Suffur 5600	Mdd	Phosphorus	340PPM, 5u 340PPM, 5u 345 - 430 PF	Phosphorus 25 PPN	Phospharus 25 PPN	Phosphora	No metalin e
an cheigy io	SASF (COC) Phe			473F (COC)	AFINE (COC)	;		ADSF (COC)	SIBF (COC)	475F (COC)		ABF (CCC)	E446 0008		579F (COC)	488F (COC)	488F (COC)	200			(ESIF (COC)		47% (coc)		SMF (COC)		12	470F (COC)	415F (COC)	S48F (COC)	585F (COC)	SSIF (COC)	450F (COC)
MICHAEL	勂			-905	ь	not applicable		ь	4	100	not applicable	<del>1</del> 9	9		lbs	7	-176	Į.	not applicable	not applicable	# P		400	not explicable	41	1		jis T	<b>J</b> BT	ь	lis	<b>#</b>	424
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	8FO 220	Ţ	to ne	Si Si	r Oil 320	14 PE	Rotery 38 (Product leble in ISO :	2 til	Hydradic 8	0220	y Gresse	132		9	07C 07D	85 070	88	2 E	F2 gresse	ţ	95	ta Pd	D 150	econd ;	100	Jear Oil 320	<b>T</b> .	D (m) C	1 Hydraulio	AD 220	AO 460	AO 150	4
	Multipurpose R&O	No Product	No Product	Synton RILO 32	Extra Duty Gear Oil 320	Multipleer Red #1	Syndustrial Rotary Compressor Oil 86 (Product not currently available in ISO :	68) Industrial Off (18	Syndustrial FR Hydraulic Pluid 48	Syncon R&O 220	Foad Mackinery Gri	Turbine Oil 32	Mulfourness REO (to)	No Product	Multipurpose RBO 320	Syndustrial R&O GB	Turbine Oil 88	No Product Even Outv Gaar Oil 190	Megaplex XDS #2 gr	No Product	Powerdive 30	No Product	Synoon R&O 150	Polytac EP \$2 grasse	Turbine Oil 100	. NA Syncon EP Plus Gear	No Product	Syncon R&O LUI	Megatiow AW HVI Hydreulio Oil 48	Multipurpose R&O 220	Multipurposa R&O 4	Multipurpose R&O 1	Turbine Off 48
	M-2850-6, -69 & P-70,						٠		FDU, Less it meet or -220 and mence.		95	ments and Lecine n P-68. P- or type														6			2				
	HF-2A, TB-C clores 1-286-8 Becron -P-68, F			1					Jesup II, Typa i aufic Fluid, Mu Juintolabric 821 Unistalabric 821 Unis and parfor			& HF-2 require & M-2950-S. I contrati Milkora arc, piston or g																					
	Desiston HP-1, & JF-2A, TB-C regulaments, Victora I-286-8 & M-2950-8, and Circitrati Mileson A-68, P-89 & P-70,								Fectory Matual Group II, Typa HFDU, Less Flammable Hydrautic Fluid, Must most or exceed Queller Quintolable 825-220 and 888-48 specifications and performance.			De ison HF-Q, & HF-Z requirements and Vertees 1-286-8 & M-290-8, Raction Model 8 and Cincinnal Milacum R-68, P- 69 & P-70 for vane, piston or gaur type	итра													20							
	Mr. R&O.	ISO VG mm VI eesting.		Non-EP,	SD VG 320	o-Luber, ess as MEC.	es At	ing. ISO		SO VG 220	D, For Low /athr u,	ntivent, N	pose, P	7	pose, Non- m VI 35	N 65	aring & Light	50 VG 130,	IO-460 NALGI Z	, Melmum Searing REO, NLSI	ansmission, , Euclid ons (Ealon) converier	the NLGI 1/2	Non-EP,	C. Mericates EP, R&O,	pose, Non- m VI 95	ISO VG		080	VY 138	m VI 90	m VI	n VI 86	VI 100
	Purpossa, Anther n VI 95	Base, Sälcone, FADE), Minim ck Thickener, E	Phosphate Est Phosphate Est ant, EHC, GE (	earing & Gear,	, AGMA BEP, I	mperature, Aud wel be same gr	Polyakylena Gly konw, ISO VG	Pereffinie, Flust /190	Ester, Hydraulio I, Minimum VI 1	Sear, AGMA 5,1	ssa, ISO VG B. Steem, and V Igh Temperatu EP, R&O, NLG	Purpose, Non-A	. & General Pur /G 100, Minim	MEC-12D n & Cabla, Aer	6 General Pur 7G 320, Minim	Air Compresso 3 68, Minimum	/G 68 Vispirithenic, Be	/G 150 . AGMA 4EP, I	ase, ISO VG 2: an Soap Thicks fride, EP, R&O	sse, ISO VG 48 Scap Thickens Electric Motor ( rease, Non-EP,	wa Train and Ti Cetapilier TO- equipment, Vici 03C for torque	Soap w/ Graph & Wheel Flang	learing & Gear.	ane, ISO VG 10 rea Thickener.	. & Gamanal Pur, /g 100, Minims	AC) P. AGMA BEP.	SO VG 1000	A General Pun	10 46, Minimum nga, Peur Poin	& General Puri G 220, Minimu	& General Pury G 480, Minimu	& General Pun G 150, Minimu	& General Pury G 46, Minimum
	Oli, Mineral, Garseral Purpaza, Antiwear, R&O. ISO VO 220, Minimum VI 95	a, Synthetic Oll IR BASE OIL G IR), Carbon Bia	ne ragn i empo ynthetic Tif-Aryl late, Flee-Resilat 126.64	prothestic PAO, E G 52	Oll, Mineral, Gear, EP, AGMA 6EP, ISO VG 320	on see, repress on the see, ISO VIG 220, Multipurpose, High Temperature, Auto-Luber, P. R.Co, NLGI 1 (Ahet be serve greese as NEC-DIS).	Oll, Synthetic (PAC) Polyalojena Glycol, Alz Compressor, Rollary Scarev, ISO VG Us, Merlmum VI 200	Oli, Mnemi, Straight Paraffinia, Flushing, 18O VG (572, Mirjimum, VI 80	Oli, Synthetic Polyal Exter, Hydraulic, Fire- Resistent, ISO VG 48, Minimum VI 140	mbelic PAO, G	Greesa, Mineral Of Brea, ISO VG 680, For Law Speed Bearings, Heat, Steam, and Water Warbout Residant, High Temperature, Abarrinum Camples, EP, R&O, NLGI 2	Oli, Mineral, General Purpose, Non-Antitivear, RSO, ISO VG 33, Merimum VI 85	OX, Mineral, Hydroutic & General Purpose, Antiwest, R&O, ISO VG 100, Minimum VI 95 -	ACATES SPEC melnifing, Chal	Oli, Mineral, Hydraulic & General Purpose, Nor- Anthreer, R&O., ISO VG 320, Minimum VI 95	yrithetic Diester voorting, ISO VA	ner, RAO, ISO nerel, Straight (	Flushing, ISO 1 Ineral, Goer, EP	um VI 80, Lithit um VI 80, Lithit Aptelenum Cleu	Greese, Mirenal Off Base, ISO Vot 48, Mirinam W (EVITER), Libban Seap Tivicianari, M Matipurposa Oransa, Electric Motor Bening Greese, New-EP, R&O, NLSI	V. Whorst, Geer, Drive Truin and Transmission, SAE 30, Allicon C-4, Caterplier TO-4, Euclid Stephenez, Konsteau equiponent, Victores (Estind) 8 4259-6, ZF TE-4M, CSC for torque converter transmissions.	Gress, Mineral Oli Base, ISO VG 22, Minimum VI (ENTER), Calcium Soap w Graphite Thistoner, Rail Curve & Wines Flange, NLGI 1/2	Oll. Symbotic PAO, Bearing & Gear, Non-EP, 160 Vo 150	Vernies, where Oil Beac, ISO VG 100, Methods VI NO. Methods VI NO. Synthetic Polyuna Thickener, EP, R&O, NLGI 2	Cill, Mineral, Hydraulic & General Purpose, Non- Anthwest, R&O, ISO VQ 100, Minimum VI 85	Obsoln: I (New MEC.082). Oil, Synthetic PAO, EP, AGMA REP, ISO VG 320	Oil Synthetic, Gear, ISO VG 1000	Oil, Synthetie, Gear, AGMA, ISO VG 886 Oil, Mineral, Hydraulie & General Purpose,	Anilwear, R&O, ISO VG 46, Millimum VI 135, Wilde Tempetature Range, Pour Point < -30	Oll, Mineral, Hydrausic & General Purpose, Non- Anthwest, R&O, ISO VG 220, Minimum VI 90	Oll, Mineral, Hydraulic & General Purposa, Non- Antheser, R&O, ISO VG 480, Minimum VI (ENTER)	Oll, Mineral, Hydraulic & General Purpose, Nor- Arthwest, R&O, ISO VG 150, Minimum VI 86	Oll, Mineral, Hydraufic & General Purpose, Nor- Aribwear, R&O. ISO VG 46, Minhmum VI 100
	MEC-027 DR, MA	Gr., and. Synthesis Oll Bess. Silicons, ISO VG (ENTER BASE ON. GRADE), Mahmum VI (ENTER), Carbon Black Thickney, Bearing.	C-028 Hydras	C.000 OL 59	MEC-031 OIL MA	MECOSZ Mulipu DAS	OK By MEC-033 Compr Minim.	MEC-034 OIL MI	MEC-COS ON, By	MEC-038 . Oil, Synthefic PAO, Gear, ACMA 5, 150 VG 220	Greese MEC-037 Speed Washo Akumin	MEC-038 ON, Mi	DR, ME MEC-039 Antime	MEC-040 ON, Pe	MEC-041 OIL, MI	MEC-042 Oil By Recipro	MECAUS Angles	MECOAS OIL M	Grass Grass MEC-047 Minimu 3% Mo	Greese W (EN MEC-048 Multipu Greese	OR ME OR MECONS equipm M-2850 Britanni	Gress MEC-050 VI (EN Thickor	MEC-OST OR BY	MEC-053 VIBG, I		MEC-055 Obsolv MEC-056 Oll, Syr		MEC-058 OR Syr	MEC-059 Anilwee Wilde T	MEC-080 OIL Min	ON, Min MEC-081 Anthres (ENTE)	MEC-082 Off, Min	MEC-084 OIL Min
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## This Specification to be used for all MidAmerican Energy meteriels

# Attachment 2 - MidAmerican Energy Lube Oil Technical Specification McAmerican Energy long specification

		1b pass	990		1a press	1a pess	Pates ASTM	D1743 Pass ASTM D1743	Passa ASTM D1743	Persu ASTM D1743	Perso ASTM D1743	_	Ym poeks			2					1a pers		fa pales	Petes ASTIA D174S		14 % post	Ta press		
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		8	2400	2400			not applicable	not applicable	not applicable	not applicable	not applicable		009×				\$			2400	×1750		>200	not applicable		>2400	W1750		
Ţ	8.1 by ASTM D2698						not applicable	not applicable	not applicable	not applicable	not applicable		12	7.9 ASTM	88		9.8 ASTM D2888							rist applicable				7.8 ASTM DZ586	
*	97	, 2	5,0,1	8,0	- 0°27	2	Brown Visual	Emeral Orsen Visual	Golden Visual	Ten Visual	Ten Visual		6,17	9		3	2			10.5	970		1.0	Red Vigural		970	9,0	2.0	
Calclum 2280 - 2910 PPM,	Phosphorus 300 -1100 PPM, 8ultur 3800 PPM, Zinc 1000 - 1280 PPM	Phosphorus 285 - 432 PPM, Sulfur 8800 - 8400 PPM, Zinc 5	Phosphorus 380 - 570 PPM	Phosphorus 440 - 850 PPM,	No metallo additivas	No metalfo additives							Phosphotus 40 - 70 PPM, Sulhir 200 PPM,	Barlum 10 - 30 PPM, Calcham 1830 - 2460 PPM, Melybelenum 80 PPM, Phosphere 700 - 600	PPM, Suther 3600 PPM, Zinc 770 - 960 PPM Phosphorus Zila - 432 PPM, Ruffer Renn, Auton Boar Flum R	Mdd	Boten 110 PPM, Calekun 3240 - 4140 PPM, Milybelman BD PPM, Prospherus 1070 -1310 PPM, Silean 10 PPM, Sulfur 3260 PPM, Zhe 1350 - 1720 PPM			Phosphorus 380 - 570 PPM	Phosphotus 320 - 480 PPM		Phosphorus 40 - 70 PPM, Suffur 200 PPM,			Phosphorus 440 - £30 PPM, Sultur 1100 PPM,	Phosphone 344 - 516 PPM	Catelum 2180 - 2880 PPM, Phosphorus 830 -1010 PPM, Zhe 590 - 1210 PPM	
:	ABAF (DOC)	464F (COC)	627F (COC)	454F (COC)	>572F	1278×							465F (COC)	44F (COC)	ANT COOL		410F (COC)			518F (DOC)	SOBF (COC)		450F (COC)			464F (COC)	500F (COC)	415F (000)	
	475	#	187	(£)	育	- 12	not applicable	not applicable	net applicable	not applicable	net applicable		ħ	1	¥,	!				187	Mary Control		-27E	not epplicable .		P.	野	189	
	90;	Ē	ģ	ĝ	3	2	124	18	8	盟	88		5	Ē	8	D	8			130	ē		章	8		126	. <u>2</u>	<u>6</u>	
	15.4	28.0	12.5	24	31.0	37.0	6.1	4	31.5	12.8	10.6		8	101	888		e di			22	15.1		8	12.1		8,8	10,8	8.8	
8	140	218	8	Ħ	460	. 8	28.2	927	480	310	218		88	.3	ş	.55	15			2	150		4	55		Ħ	818.5	â	
	TSX Heavy Duty Motor Oil 40	Syncon EP Plus Gar OI 220	Syrcan R&O 100	Syroon AW Hydraulic Fluid 22	Compounded Gear Oil 450	Competended Gear Oil 6:10	Triton Low Temp 81 greess	Thon ELL Gresse #00	Bertone Greese (Dupitcate)	Onrigund #1 Greece	Omriguard #2 Greece	Ne Preduct	Ecoloma Hydraudic Oil 685 No Product	Super All Sesson Bymblend	Syncon EP Plus Geer Oil 480.	No Product	Powerten Fluid	No Product	No Product	Syncon R&D 46	Syndratrial R&O 190	No Product	Ecotarta Hydraulic Oli 46	Polytes \$2 greese	No Product	Synoan AW Hydraulic Fluid 32	Syndustrial R&O 100	Powerdrive 10W	No Product
								Equivalent to Mobil SHC 007																					
	MEC-065 ON, WINNER, ENDING, DAZ-4U, U.S., MRRNY-MIL-	MEC.Cuta Oil, Synthetic PAO, Gear, EP, AGMA 5EP, ISO VG 220	MEC-067 Oil, Synthetic PAO, Geer, Non-EP, RaO, ISO VG 100, Minimum VI 130 (Sum as MEC-106)	MEC-CORT Zinci, R&O ISO VG ZZ, Mithem (Non-Zinci, R&O ISO VG ZZ, Mitherum VI 130	MEC-070 Oil, Mineral, Compounded, Low Speed Baseing & Gaer, Steam Cylinder, AGMA 7, ISO VG-480	MEC-071 Off, Mineral, Compounded, Low Spend Bearing & Gene, Steam Cylinder, AGMA 9, 150 Vol 880	Gri riad, Syntholic Oll Bane, PAO, 190 VG 22, MEC-077 Minimum VI 120, Libbur Stope of Libbur Complex Children Complex This Panel EP, 1802, N.C.01 1	Greese, Synthetic Oli Base, PAO, ISO VG 460, R MEC-073 Minimum VI (EVTER), Librium Complex Thicknew, EP, R&O, M.CS 00	Octobe, Minma Oll Base, 150 Vers 450-7. Melmum VI 35, Bartonita Cay Trichese, High Temperature Grusse, EP, NLGI 2 (Nearly the same as MEC-12).	Grasse, Mineral Oil Base, ISO VG 460, Minimum MEC-075 VI (ENTER), Calclum Sullivate Thickness, High Temperatura Grasse, EP, ReO, N.O.I 1	Greate, Mineral Oil Base, ISO VG 460, Melimum NEC.078 VI (ENTER), Calcium Sulfonste Trickeres, High Temperature Greate, EP, RAC, NLGI 2	Grasse, Systhetic Off Base, Silcone, ISO VG MEC-077 (EUTER BASE OIL GRADE), Mehrum VI (ENTER), Extreme High Temperature, NLOI 3	Old, Moneat, Johanna B. Pilly Provers NECOT9 "Transmission, ISO Old 1999 Helt, Non-Zinc Aptilyeger, PillO, ISO VG 88, Melhellim VI 86, Methodo ISO VO 180, Melhellim VI 86, NECODO ISO VO 180, Melhellim VI (EVITER), Gear,		CATYGET MIS-GENE (NAM. 1) MEC-081 ON, Symbratic PAO, Guer, EP, AGMA TEP, ISO	Gresse, Synthetic Oil Base, PAO, ISO VG 32, NEC-093 Minum VI (EMTS), Organic Joy Thickener, MGh & Lev Temperatus. Ni Oil 15.	OS, Minwel, Malijuppow, Transvirsion & MECOSH Hybridds, Transvirsion Populinemirbs Specification Requiremires	Gress, Mineral Oll Base, ISO VG 100, Mehmun MEC-095 V (ENTER), Lithlan Seep Thelener, Electric Motor Beating Gresse, NLOI 3	Green, Minneril Cil Base, 160 VG 1000, MEC-038 Minhum VI (880 £81 @ 40; 37 £81 @ 100, Sodium Scap Thickoner, Bearing Greese, NLC) 1	MEC-097 DN, Synthetic PAC, Air Compressor, 180 VG 48	MEC-088 UN, symmer Liverar, Alf Compressor, 180 VG 190, Minimum VI 85 Greese, Soy Oil Base, ISO VG 89, Minimum VI	MEC-099 200, Rail Curve & Wheel Flange, NLGI 1 (Conforms to State of love Serate File - SF 2185 and SF 2249)	MEC-100 Oll, Blo-Breed, Blodegradeable, Hydraulic & General Purposa, ISO VG 46. Minhrum VI 85	Arease, Marca Do Base, Sch O'D 100, Marrhum IV BD, Synthesie Polyzue Thebrare, High MEC-101 Temparkter Stores, Ball & Arber Bowling Group, M.S.O. 2, MAST WEST LIBRICANT REGULATERINENTS OF GEK 48 82927	Gransa, Synthatic Off Basa, Sifteens, ISO VG MEC-102 (ENTER BASE OIL GRADE), Walmum VI (ENTER), Coupling	Off. Synthetic PAO, Hydrault, Anthonar (Non- MEC-104 Zine), ISO VG 32, Minimum VI 125, Wide Temperature Fampa	MEC-108 Oll, Symbolic Diester, Air Compressor, ISO VG 100, Mirimum VI SS Oll, Minami, Drhe, Train & Transmission, SAF	MEC-107 Allannet, Konstau explanment, Victorer (Embo) M-206-08, 2F E-Ms, COC for Inrusa converter internationals.	Grand, Synthetic Oll Baist, Disester, (SO VG , MEC-109 Methyan VI (ENTER), Inerganis Gel Thickener, Low Temperature, M.Gl 2

# This Specification to be used for all Middenarion Energy materials Attachment 2 - MidAmerican Energy Lube Oil Technical Specification MidAmerican Energy Long specification

									3	Molum 2200 - 2810 PPM	:								
	S AC		API SM, ILBAG GF-3	Kendall GT-1 HP Motor Oil 10W-40	108	2	8		MF (COC) PR	obytolenum 80 PPM, hesphorus 700 -800 PPM, uffur 3800 PPM, Zhe 770 -		L.B. A.S.T.M. D2696							
	1 BS 4	Mineral Dil Bese, ISO VG 150, Minimum     Altminum Complex Thickense;     Direct May Transport to Green ED		Food Mathinery Grasse	82	28.5			i E	Md.				:				ž	
This cold is found with the manufacture of the cold with the manufacture of the cold with the manufacture of the cold with the	œ,	NLGI Z			:8									x approach x				ASTM CP710	
No. 1974   Section	3 4	s, Synthetic Oil Beas, (ENTER TYPE), ISO i Merhann VI SQ, Alaminum Complex nor, Bearing Greece, EP, R&O, NLG! 2		Food Machinery Greate	220	18.5		applicable				eldicilqu		signagan y				ASTM D1743	
Part	0 4	<ol> <li>Synthesic Call Bases, (ENTER TYPE), 19O</li> <li>For Hearthy-Londed Low-Speed</li> <li>Lifth Complex Thickener, EP, R&amp;C, and rd 1</li> </ol>		Triton 220 #2 graps	220	24.6		applicable				applicable	applestile		not mpplicable			ASTM	
Page	10年	P. Mineral Cill Base, ISO VG 100, Melmum ATER), Lihlum Soup Thickener, Urpoue Gresse, Electric Motor Bearing e, Low-Volee Gresse, Non-EP, R&O, NLGI		No Product														01743	
Part	35	Ilmral, Gear, EP, AGMA ZEP, 150 VG 68, um VI 95		Extra Duty Gear Oil 43	8	B,T	8			hosphorus 220 - 400 PPM, No. 4000 DOM					ut applicable				
This billion of 1970   This billion of 1970	Grasso, VG 100, Thicker NLGI 2	<ol> <li>Synthetic Oli Bessa, (ENTER TYPE), 160</li> <li>Minimum VI 100, Synthetic Polystras rene, Ball &amp; Roller Bearing, Non-EP, R&amp;O.</li> </ol>		Polytec #2 grease	<b>5</b>	12.1		ejdezgide	•	181 L DOGG (ALIE)					ot applicable		!	ASTM	
This District Colores	8,0	prithetic PAO, Gear, EP, AGMA 4EP, ISO IO		Synoon EP Plus Gerr Off 150	<u>ā</u>	21.7	Ē			heapherus 283 - 432 PPM, ufur 5800 - 8400 PPM, Zinc 5		100	spolentie	4 spolosbie	8		#		
This 150 of Course   14	465	Oli, Mineral, Hydraulio & General Purpose, Anthees, R&O, ISO VG 100, Minimum VI 85 - DUPLICATES SPEC MEC-039		Megistlew AW Hydrautic Oil - 100	8	=	8			PM wielum SQPPM, Phesphorus QPPM, Bulha 800PPM, Zhe K 430 PPM			»270	mirutes to	, nd			1	
Optibility Control         161         162         162         163	223	u, Synthetic Oil Base, PAO, 190 VG 220, Nen VI 130, EP. R&O, White Temperature Is, Lithtun Complet Thickenst, NLG! 2		Triton 220 42 Gresse	827	24.5		applicable							ot applicable			ASTA	
Christian Latin Carlotte   153   154   154   155   1	8844	a, Mineral Oll Base, ISO VG 180, Minimum Libhlum 12-Hydroxysteesta Thickenne, urpose, EP, R&O, NLGI O (Same as MEC- copets for thickener.)			98	16.5	ā	applicable							ot applicable			NEW SECOND	
Publication of Companies of C	5 5 B	Mineral Off Base, 18O VG 220, Minimum 12-Hydrocysteentia Thickmere, urpsos, E.P. R&O, NLSI 2     Minimum ANKINATUR Protezy.		Dymatte L-EP 42 Ont into	8	16.5		eppficable							_			ASTM OH245	
Marchine of Computation   Marchine   March	E 49	oe II Inhibited Oil, GE A13A3A2 (10CA). nghatae Specification PDS 55572AG		Transformer Of	9.6	2.3	60		00F (COC)		501		280		8	Non- rosive by A CTM		5458	
No.   No.	A 12 A	Ineral, Refrigeration Compressor, ISO VG ISUS@(IOF ~ 150), Ineral, Refrigeration Compressor, ISO VG		rani Compresso 22	72.1	3.8	R			o metalle additives	0.5				-	71276B			
Product   Prod	8 4 4 4	mbietic Pelygycel, Gear, ISO VG 680, um VI 220, Service Temperature Range - e 200 F		No Product															
Product   Prod	8 6 9	4. Synthetic Oil Base, ISO VG 320, nibs Thicknew, High-Temperature Gresse, Grede NSF Cless H1, EP, R&O, NLG5 2		No Product															
No Product         No Prod	# 15 m 20 C	mthatic PAO, ISO 32, VI 130, Industrial unbine Lubricant methodic, Polyalisme Glysol, ISO 320 methodic, Polyalisme Glysol, ISO 320 methodic polyalisme Glysol, ISO 320 methodic polyalisme Thebrane RAO.		Syncen Turkine Oil 32 No Product	Ħ	6.0	該			o motalic additives	2			minutes to	R			Pers	
No Product         74         406*         4mpf (COC)         No mutable additives         G.S.         > 1750         To inhere is press         State           No Product         No Product <td< td=""><td>10.0</td><td>2 a, Synthetic, PAO Base, ISO VG, Min VI ell Thickener, H-Tamp Grease, NLGI 2</td><td></td><td>No Product</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	10.0	2 a, Synthetic, PAO Base, ISO VG, Min VI ell Thickener, H-Tamp Grease, NLGI 2		No Product															
Synthatised Risk 22         31         66         74         400° Conditions and benefitives         6.5         74         400° Conditions         10         10 ministers in parameter         10 ministers in parameter           No Product         No Product <t< td=""><td># 2 ± 27</td><td>rithelio, EstarfOrgenophospheria Estar, P. No Friction Reducing Additives, 40 deg 50 deg F Temp Renge, MILL, 7800 or Mil., 9, ISO 30 Minss, eSt @ 100 deg G - 5:1</td><td></td><td>No Product</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	# 2 ± 27	rithelio, EstarfOrgenophospheria Estar, P. No Friction Reducing Additives, 40 deg 50 deg F Temp Renge, MILL, 7800 or Mil., 9, ISO 30 Minss, eSt @ 100 deg G - 5:1		No Product															
No Product	2 Sy	rithelic, Diester, Alr Compressor, ISO VG n VI 30, Flesh Poht 245 deg C, Pour Bridge C		Syndustrial R&O 32	Ħ	ψ	Z.			metalfic additives	50			Individus to	1		'n	peed	
		N. Synthetic Bess Off, PAO, ISO VG 100, N. Synthetic Brane, Anti-Wan, R&O, T. NLGI 2, 100 c5t @ 40 Drg C, 14,5 c8t		Ne Product															
		V. Minnert Cil Bace, ISO VG 100, Bartum V. Thokener, -20 to 140 Deg C rature Remon, N. Cil 2		Ne Product															
	A CAN	Synthetic, Silicone Base Dil, Uthlum hickener, ISO VG 100, Service Temp -100 TO 400 Deg F. R&O, NLGI 1		No Product															
	App To Table	Synthetic, PAO, ISO VG 128, Lithkan inkener, Minimum VI 190, EP, NLGI 0, Thirotreele Greene		No Product															
	P Ta	neformer, Blo-bassed, Dielectric.		No Product															
	9 4	, Synthelie, Silicona Cil Base, ISO VQ 25 dag C, Liblium Seap Thickener, High Amefing Grease, NLGI Z, Sarvice Temp -		No Product															
	8 8	F to 400 day F mpressor		Ne Product															

MEC Oil Specification Number	Manufacturer	Lubricant Name	Statzes	Deviation From Specification
MEC-001	Conoco	Conoco Megaflow AW HVI Hydraulic 🖽 32	Meets Specifications	
MEC-001 MEC-001	Shell Texaco	Shell Tellus S2 V 32 (Formerly Shell Tellus Oils T 32) Texaco Rando HDZ 32	Meets Specifications Meets Specifications	
MEC-002	Сопосо	Conoco Megaflow AW Hydraulic Oil 68	Meets Specifications	
MEC-002	Lubriplate	Lubriplate HO-2	Acceptable - Qualified	The product data sheet for this product does not list any OEM endorsements.
MEC-002	Shell	Shell Tellus S2 M 68 (Formerly Shell Tellus Oils 68)	Meets Specifications	emotacticità,
MEC-002	Техасо	Texaco Rando HD 68	Meets Specifications	
MEC-003 MEC-003	Conoco Shell	Conoco Multiplex Red No. 2 Shell Retinax LX 2 Grease	Meets Specifications Acceptable - Qualified	The base oil viscosity of this product is 180 vs 220 specified.
MEC-004	Conoco	Conoco Multipurpose R&O 460	Meets Specifications	THE BUSINESS OF SHIP PRODUCT IS 200 TO 220 SPECIFIED.
MEC-004	Shell	Shell Mortina Oil SD 460 (See Spec MEC-061)	Meets Specifications	
MEC-005	Conoco	Conoco Extra Duty Gear Oil 220	Meets Specifications	
MEC-005	Mobil	Mobilgear 600 XP 220 (Formerly Mobilgear 630 - Discontinued 12/1/08)	Meets Specifications	
MEC-005 MEC-005	Shell Texaco	Shell Omala 52 G 220 (Formerly Shell Omala Oli 220) Texaco Meropa 220	Meets Specifications Meets Specifications	
MEC-006	Conoco	Conoco Extra Duty Gear Oil 460	Meets Specifications	
MEC-006	Mobil	Mobilgear 600 XP 460 (Formerly Mobilgear 634 - Discontinued 12/1/08)	Meets Specifications	
MEC-006	Shell	Shell Omala 52 G 460 (Formerly Shell Omala Oil 460)	Meets Specifications	
MEC-006	Техасо	Texaco Meropa 460	Meets Specifications	
MEC-007	Amoco	Amoco Permagear 680	Unacceptable	
MEC-007 MEC-007	Conoco	Conoco Extra Duty Gear Oil 680 Mobilgear 600 XP 680	Acceptable - Qualified Acceptable - Qualified	Does not meet the VI specification The VI (viscosity index) of this product is 90 vs 95 specified.
MEC-007	Shell	Shell Omata 52 G 680 (Formerly Shell Omata Oli 680)	Meets Specifications	The 41 (415-0-514) moved of this product is 90 % 95 specified.
MEC-007	Текасо	Texaco Meropa 680	Meets Specifications	
MEC-008 MEC-008	Chevron Conoco	Chevron GST 32 (Filtered)  Conpcp Turbine Oil 32 (Filtered to Diemond Class)	Meets Specifications Meets Specifications	
MEC-008	Shell	Shell Turbo Oil T 32 (Filtered)	Meets Specifications	
MEC-009	Conoco	Conoco TSX Heavy Duty Motor Olf 10W	Meets Specifications	
MEC-009 MEC-009	Shell Texaco	Shell Rotella T Single Grade Oil 10W Oil Texaco Ursa Super Plus SP Single Grade Motor Oil 10W	Meets Specifications Meets Specifications	
MEC-010	Amoco	Amaco 300 30	Unacceptable	
MEC-010	Conece	Conoco TSX Heavy Duty Motor Oil 30	Meets Specifications	
MEC-010 MEC-010	Shell Texaco	Shell Rotella T Single Grade Olis 30 Oli Texaco Ursa Super Plus SP 30	Meets Specifications Meets Specifications	
MEC-011	Conoco	Conoco HD Fleet Supreme EC 15W40	Meets Specifications	
	John Deere	John Deere Torq-Guard 15W40	Acceptable - Qualified	
	Mobil Pennzoli	Mobil Delvac I 15W-40 Pennzoll Long Life Heavy Duty Engine Oli 15W40	Acceptable - Qualified Acceptable - Qualified	
	Shell	Shell Rotella T Multigrade 15W-40 Oil	Meets Specifications	
	Texaco	Texaco Ursa Super Plus SP 15W40	Meets Specifications	
	Conoco	Conoco Super ATF	Meets Specifications	
MEC-012	Shell	Shell Spirax S3 ATF MD3 (Formerly Formula Shell ATF Dexron III - Mercon)	Meets Specifications	
MEC-013	Conoco	Conoco Multiplex Red No. 1	Acceptable - Qualified	Base oil viscosity of this product is 170 vs 220 specified.
	Shell Shell	Shell Gadus S3 V220C 1 (Formerly Shell Albida EP 1) Shell Retinax CMX 1	Acceptable - Qualified	The base oil viscosity of this product is 180 vs 220 specified.
MEC-014	Chevron	Chevron Delo Grease EP 0	Acceptable - Qualified	The base oil viscosity of this product is 220 vs the 160 specified.
MEC-014	Conoco	Conoco Multiplex Red No. 0	Meets Specifications	White was disable and an included a service of the
MEC-014	Shell	Shell Gadus S2 V220 0 (Formerly Shell Alvania Grease EP(LF) 0)	Acceptable - Qualified	This product contains a lithium soap thickener vs the lithium complex specified.
MEC-014	Техасо	Texaco MultiFak EP 0	Acceptable - Qualified	This product (apparently) contains a lithium soap thickener vs the
	Conece	Conoco Food Machinery Gresse No. 2	Unacceptable	lithlum complex specified.  Product is not a synthetic and does not meet the required
	Lubriplate	Lubripiate SFL Grease 2	Acceptable - Qualified	temperature range.  The lower operating temperature limit of this product is listed as -25
	·			F vs the specification of -40 F.  The operating temperature range of this product is listed as -31 F to
	Shell	Shell Cassdia EPS 2	Acceptable - Qualified	248 F vs -40 to 320 F specified.
	Conoco Conoco	Conoco Universal Gear Lube 80W-90 (Same as spec MEC-078) Conoco Universal Gear Lube 85W-140	Meets Specifications Meets Specifications	
	Shell	Shall Spirax HD 85W-140	Meets Specifications	
	Conoco	Conaco Multipurpose R&O 100	Meets Specifications	
	Shell Conoco	Shell Corena Oli P 100 Conoco Coupling Gresse	Meets Specifications Meets Specifications	
	Shell	Shell Alvania Grease CG 0/1	Meets Specifications	
****	Chewon	Chevron Ulti-Plex® Synthetic Grease EP	Meets Specifications	
	Conoco	Conoco Triton 460 No. 1.5 Grease	Meets Specifications	The product does not contain an EP additive. An EP additive is
VIEC-020	Mobil	Mobil Mobilith SHC Series 460 No. 1.5 Grease	Acceptable - Qualified	specified.
	Shell	NO PRODUCT IDENTIFIED Conoco Triton Synthetic Gear Lube 75W90	Unacceptable	
	Conoco Sheli	Conoco Triton Synthetic Gear Lube 75W90 Shell Spirax ASX R SAE 75W-90	Meets Specifications Meets Specifications	
VIEC-022	Conoco	Conoco Extra Duty Gear Oll 100	Meets Specifications	
	Shell Connection	Shell Omaia 52 G 100 (Formerly Shell Omaia Oil 100)	Meets Specifications	Personal and the same of
	Conoco Shell	Conoco Syncon R&O 68 Shell Corena S4 R 68 (Formerly Shell Corena AS 68)	Acceptable - Qualified	Does not meet the VI specification.
	Техасо	Texaco Cetus PAO 58		
/IEC-025	Amovis	Amovis 8X Open Gear Lube		
AEC-025	Chevron	Chevron Open Gear Grease	Unacceptable - Not Established for N4 Mills	Base oil viscosity in this product is much higher than specified and product does not come with diluent added.
AEC-025	Conoco	Conoco Gear Shield NC	Unacceptable	Significant deviation from viscosity specification. Rejected by Mark Jeratowski.
	Mobil	Mobile Gear Lube 375NC	Unacceptable - Not Established for N4 Mills	Check PDS
	Whitmore Conoco	Whitmore Envirolube Heavy Mill Grease W182 Congco Syncon R&O 460	Meets Specifications Meets Specifications	
	Mobil	Mobil SHC 634	тесь эрсиничий	
AEC-026 S	Shell	Shell Morlina S4 B 460 (Formerly Shell Omala Fluid RL 460)		
	Texaco Chevron	Texaco Pinnade 460 Chevron A/O 220		
	Coneco	Conoco Multipurpose R&O 220	Meets Specifications	
	Shell	Shell Morline Oil SD 220 (DOES NOT MEET MEC SPEC - CONTAINS NO		
	Texa <b>co</b>	ANTIWEAR) Texaco Rando HD 220		
	Dow Corning	Dow Corning Molykote 41		
	Conoco	No Product Proposed		
	CDL Corroco	Fyrquel EHC No Product Proposed		
	Shell	Shell Turbo Fluid DR 46		
1EC-030 C	Conces	Conoco Syncon R&O 32	Meets Specifications	
	Shell Taxaco	Shell Corena S4 R 32 (Formerly Shell Corena AS 32) Texaco Pinnacle 32		
	Conoco		Meets Specifications	

## This Specification to be used for all MidAmerican Energy materials Attachment 2 - MidAmerican Energy Lube Oil Technical Specification Branded Lubricants

MEC-031	Mobil	Mobilgear 600 XP 320 (Formerly Mobilgear 632 - Discontinued 12/1/08)		
MEC-081	Shell	Shell Omata S2 G 320 (Formerly Shell Omata Oil 320)		
MEC-081	Texaco	Texaco Meropa 320		
MEC-032	Shell	Shell Gadus S3 V220C 1		
MEC-032	Sheil	Shell Retinax CMX 1 (CONTAINS MOLY EP ADDITIVE) (DOES NOT MEET		
		SPEC - VISCOSITY IS TOO KIGH] Shell Retinax LX 1 (Not Moly) (DOES NOT MEET SPEC - VISCOSITY IS TOO		
MEC-032	Shell	LOW)		
MEC-032	Техасо	Texaco Starplex 1 EP Auto-Luber (Texaco Starplex Moly 1 PC 221944 -		
MILLOUSE	Texaso	Discontinued 12/03/08)		
MEC-033	Солосо	Conoco Syndustrial Rotary Compressor Oil (Product not currently available from Conco in ISO 58)	Meets Specifications	
MEC-033	Shell	Shell Corena Fiuld PGE 68		
MEC-034	Солосо	Conoco Industrial Oli 115 (ISO 22) (Same spec as MEC-044)	Meets Specifications	
MEC-035	Conoco	Conoco Syndustrial FR Hydraulic Fluid 46	Meets Specifications	
MEC-035 MEC-036	Dasco Conoco	DASCO FR 355-2 Conoco Syncon R&O 220	Acceptable - Qualified	Does not meet the VI specification.
MEC-036	Shell	Shell Morlins S4 8 220 (Formariy Shall Omala Fluid RL 220)	Acceptable - Qualities	obes flot meet the 41 specification.
	Conoco		Unacceptable	Product is not a synthetic oil and does not meet base oil viscosity
MEC-037		Conoco Food Machinery Grease No. 2	Officeptable	specification.
MEC-037	Lubriplate	Lubriplate 1444	h 6	
MEC-038 MEC-038	Conoco Shell	Conoco Turbine Oil 32 Shell Turbo Oil T 32	Meets Specifications	
MEC-038	Texacco	Texaco Regal R&O 32		
MEC-039	Conoco	Conoco Multipurpose R&O 100	Acceptable - Qualified	Product data sheet does not list all required OEM endorsements.
			Acceptona - Chamined	Trouber sale sheet obes not list as required OEM andbrachents.
MEC-089 MEC-089	Lubriplate Pulsafeeder	Lubriplate 2F 100 (ZINC FREE) Hydraulic Oil Pulsalube #1		
MEC-089	Shell	Shell Circulating Oli 100		
MEC-039	Texaco	Texaco Regal AW 100		
MEC-040	Chesterton	Chesterton 601 Chain Drive and Bushing Lubricant	Meets Specifications	
MEC-040	Lubriplate	Lubriplate Penetrating Chain and Cable Fluid	Acceptable - Qualified	Does not contain an EP additive.
MEC-040	Conoco	No Product Proposed		Conoco product data sheet shows that the product contains a non-
MEC-041	Conoco	Conoco Multipurpose R&O 320	Acceptable - Qualified	zinc antiwear additive.
MEC-041	Shell	Shell Morlina S3 8A 320 (Formerly Shell Morlina Oil SD 320)		
MEC-041	Texaco	Texaco Regal R&O 320	84 - A - B	
MEC-042 MEC-042	Conoco	Conoco Syndustrial R&O 68 Shell Torcula Fluid DE 68	Meets Specifications	
MEC-042	Texaco	Texaco Cetus DE 68		
MEC-043	Chevron	Cheyron GST 68		
MEC-049	Conoco	Conoco Turbine Oli 68	Meets Specifications	
MEC-043	Shell	Shell Turbo Oll T 68 Texasco Regal R&O 68		
MEC-043 MEC-045	Texaco Chevron	Chevron Utility Oil LYI 150		
MEG-045	Conoco	No Product Proposed		
MEC-045	Shell	Shell Carnes Off E 150		
MEC-D45	Texaco	Texaco Alcaid 150	M	
MEC-046	Conoco	Conoco Extra Duty Gear O!! 150	Meats Specifications	
MEC-046	Mobil	Mobilgear 600 XP 150 (Formerly Mobilgear 629 - Discontinued 12/1/08)		
MEC-046	Shell	Shell Omala S2 G 150 (Formerly Shell Omala Oll 150)		
MEC-045	Текасо	Texaco Meropa 150		
MEC-047 MEC-047	Conoco Sheli	Conoco Megapiax XD3 Grease No. 2 Shell Retinax CMX 2 Grease (CONTAINS MOLY EP ADDITIVE)	Meets Specifications	
MEC-047	Техасо	Texaco Starplex Moly MPGM 2		
MEC-048	Conoco	No Product Proposed		
MEC-048	Shell	Shell Gadus S2 V100 2 (Formerly Shell Alvania RL 2 Grease)		
MEC-049	Congco	Conoco Powerdrive Fluid 30	Meets Specifications	
MEC-049 MEC-050	Shell Conoco	Shell Spirax S4 CX 30 (Formerly Shell Donax TC 30) No Product Proposed		
MEC-050	Amoco	Rykosafe 1487		
MEC-050	Техасо	Texaco 904 Grease W NLGI 1/2		
MEC-051	Coneco	Conoco Syncon R&O 150	Meets Specifications	
MEC-051 MEC-051	Mobil Shell	Mobil SHC 629 Shell Morlina S48 150 (Formerly Shell Omala Fluid Rt. 150)		
MEC-051	Texaco	Texaco Pinnecie 150		
MEC-053	Chevron	Chevron Black Pearl EP 2 (Only in 14 oz cartridge on 7/7/11)	Acceptable - Does Not Meet Spec	
MEC-053	Chevron	Chevron Rykon EP2 Premium (Discontinued) (Reinstated on 7/7/11)		
MEC-053	Conoco	Conoco Polytac EP Grease No. 2	Acceptable - Qualified	Does not meet the viscosity, VI, or PTFE thickener specification.
MEC-053	Shell	None Available		
MEC-054	Conoco	Conoco Turbine Oil 100	Meets Specifications	
MEC-054 MEC-054	Mobil Shell	Mobil DTE HVY Shell Morlina S9 8A 100 (Formerly Shell Morlina Oli SD 100)		
MEC-054	Texaco	Texaco Regal R&D 100		
MEC-055	None - Obsolete Spec	None - Obsolete Spec		
MEC-056	Amsoll	Amsoli PTN 320	Meets Specifications	
MEC-056 MEC-056	Conses Mobil	Conoco Syncon EP Plus Gear Oil 320 Mobil SHC 320	Meets Specifications	
MEC-056	Shell	Shell Omala 54 GX 320 (Formerly Shell Omala HD 320)		
MEC-056	Техасо	Texaco Pinnacie EP 520		
MEC-057	Lubriplate	Lubriptete SFGD Ultra 1000	A	On the state of th
MEC-057 MEC-057	Mobil Conoco	Mobil SHC 639 No Product Proposed	Acceptable - Qualified	Product does not meet viscosity specification.
MEC-057	Техасо	Textaco Pinnacle EP 1000		
MEC-058	Сопосо	Conaco Syncon R&O 680	Meets Specifications	
MEC-058	Mobil	Mobil SHC 636		
MEC-058	Shell Texaco	5hell Mori(na 54 B 680 (Formerly Shell Omala Fluid RL 680) Taxcaco Pinnade 680		
MEC-058 MEC-059	Conoco	Conoco Megaflow AW HVI Hydraulic Oil 45	Meets Specifications	
MEC-059	Mobil	Mobil DTE 15M	•	
	Shell	Shell Telius S2 V 46 (Formerly Shell Telius Oils T 46)		
MEC-059	Texace	Texaco Rando HDZ 46		Dendurt contains size from a through the same
MEC-059 MEC-059			Unacceptable	Product contains zinc-free antiwear; but specification calls for no anitwear.
	Сопосо	Conoco Multipurpose R&O 220		
MEC-059	Conoco	Shell Morlina SS BA 220 (Formerly Shell Morlina Oil SD 220)		antweat.
MEC-059 MEC-060				
MEC-059 MEC-060 MEC-060	Shell	Shell Morlina SS BA 220 (Formerly Shell Morlina Oil SD 220)	Unacceptable	Product contains zinc-free antiwear, but specification calls for no
MEC-059 MEC-060 MEC-060 MEC-061	Shell Texaco Conoco	Shell Morflins SS BA 220 (Formerly Shell Morflins Oil SD 220) Texaco Regal R&O 220 Conoco Multipurpose R&O 460	Unacceptable	
MEC-060 MEC-060 MEC-060	Shell Texaco	Shell Morlina SS BA 220 (Formerly Shell Morlina OII SD 220) Texaco Regal R&O 220	Unacceptable	Product contains zinc-free antiwear, but specification calls for no
MEC-059 MEC-060 MEC-060 MEC-061 MEC-061 MEC-061 MEC-064	Shell Texaco Conoco Shell Texaco Conoco	Shell Morlins SS BA 220 (Formerly Shell Morlins Oil SD 220) Texaco Regal R&O 220 Conoco Multipurpose R&O 460 Shell Morlins SS BA 460 (Formerly Shell Morlins Oil SD 450) Texaco Regal R&O 460 Conoco Turbine Oil 46	Unacceptable  Meets Specifications	Product contains zinc-free antiwear, but specification calls for no
MEC-059  MEC-060  MEC-060  MEC-061  MEC-061  MEC-061  MEC-064  MEC-064	Shell Texaco Conoco Shell Texaco Conoco Shell	Shell Morfins SS BA 220 (Formerly Shell Morfins Oil SD 220) Texaco Regal R&O 220 Conoco Multipurpose R&O 460 Shell Morfins SS BA 460 (Formerly Shell Morfins Oil SD 460) Texaco Regal R&O 460 Conoco Turbine Oil 46 Shell Turbo Oil T 46		Product contains zinc-free antiwear, but specification calls for no
MEC-059  MEC-060  MEC-060  MEC-061  MEC-061  MEC-061  MEC-064  MEC-064  MEC-064	Shell Texaco Conoco Shell Texaco Conoco Shell Texaco Conoco Shell Texaco	Shell Morlins SS BA 220 (Formerly Shell Morlins Oil SD 220) Texaco Ragal R&O 220 Concor Multipurpose R&O 460 Shell Morlins SS BA 460 (Formerly Shell Morlins Oil SD 460) Texaco Regal R&O 460 Concor Turbine Oil 46 Shell Turbo Oil T46 Texaco Regal R&O 460	Meets Specifications	Product contains zinc-free antiwear, but specification calls for no
MEC-059  MEC-060  MEC-060  MEC-061  MEC-061  MEC-061  MEC-064  MEC-064	Shell Texaco Conoco Shell Texaco Conoco Shell	Shell Morfins SS BA 220 (Formerly Shell Morfins Oil SD 220) Texaco Regal R&O 220 Conoco Multipurpose R&O 460 Shell Morfins SS BA 460 (Formerly Shell Morfins Oil SD 460) Texaco Regal R&O 460 Conoco Turbine Oil 46 Shell Turbo Oil T 46		Product contains zinc-free antiwear, but specification calls for no

## This Specification to be used for all MidAmerican Energy materials

### Attachment 2 - MidAmerican Energy Lube Oil Technical Specification Branded Lubricants

MEC-065	Texaco	Texaco Ursa Super Plus 40		
MEC-066	Conoco	Conoco Syncon EP Plus Gear Oil 220	Meets Specifications	
MEC-066	Shell	Shell Omala S4 GX 220 (Formerly Shell Omala Fluid HD 220)		
MEC-066	Техасо	Texaco Pinnacie EP 220		
MEC-067	Conoco	Conoca Syncon R&O 100	Meets Specifications	
MEC-067	Texacci	Texaco Pinnacia 100		
MEC-069	Conoco	Conoco Syncon AW Hydraulic Fluid 22	Meets Specifications	
MEC-070	Conoco	Conoco Compounded Gear Oli 460	Meets Specifications	
MEC-070	Shell	Shell Omala S1 W 460 (Formerly Shell Valvata J 460)		
MEC-070	Техасо	Texaco Vanguard 460		
MEC-071	Conoco	Conoco Compounded Gear Oli 680	Meets Specifications	
MEC-071	Shell	Sheli Omala S1 W 680 (Formerly Sheli Valvata J 680)		
MEC-072	Conoco	Conoco Triton Low Temp Grease No. 1	Meets Specifications	
MEC-073	Congco	Conoco Triton ELL Gresse No. 00	Meets Specifications	
MEC-073	Mobil	Mebilith SHC 007	·	
MEC-073	Shell	Shell Retinax TL 00 Grease		
MEC-074	Conoco	Conoco Bentone Gresse No. 2	Meets Specifications	
MEC-074	Lubriplate	Lubriplate High Temp		
				Product does not meet base oil viscosity. Qualified based on past
MEC-075	Conoco	Conoco Omnigard Grease No. 1	Acceptable - Qualified	use.
				Product does not meet base oil viscosity. Qualified based on past
MEC-076	Conoco	Conoco Omnigard Grease No. 2	Acceptable - Qualified	use.
MEC-077	Dow Corning	Dow Corning 111 Valve Lube & Sealant		use.
MEC-077	Conoco	No Product Proposed		
MEC-079	Conges	Conoco Ecoterra Hydraulic Dil 68	Meets Specifications	
MEC-079	Shell	Shell Tellus S3 M 68 (Formerly Shell Tellus S Olls 68)	Tree to openiostoria	
MEC-079	Техасо	Texaco Rando HD Ashless 68		
MEC-080	Anderol	Anderol Royco 636		
INECOMO	Adiocios	Historia noyes asa		The Bradush Buts Channels and Land Land
MEC-080	Diamond Power	Diamond Power 907135-0007		The Product Data Sheet for this product has not been reviewed to
MEC-OBO	Солосо	No Product Proposed		verify that specs are met.
MEC-080	Shell	Shell Tivela WB (Formerly Shell Tivela Compound A)		
MEC-087	Conoco		Adverte Constituentions	
	Shell	Conoco Super Ali Season Synblend 10W-30	Meets Specifications	
MEC-087	Texaco	Shell Formula Shell 10W-30 Texaco Havoline Motor Oil 10W-30		
MEC-087	None - Obsolete Spec			
MEC-089		None - Obsolete Spec	A	
MEC-091	Conoco Sheli	Conoco Syncon EP Plus Gear Oil 460	Meets Specifictions	
MEC-091		Shell Omala S4 GX 450 (Formerly Shell Omala Fluid HD 460)		
MEC-091	Texaco	Texaco Pinnacle EP 460		
MEC-093	Mobil	Mobil SHC MobilTemp 32		
MEC-093	Conoco	No Product Proposed		
MEC-094	Canaço	Conoco Powertran Fluid	Meets Specifications	
MEC-095	Conoco	No Product Proposed		
MEC-095	Shell	Shell Cyprina RA		
MEC-096	Shell	(Shells spreadsheet of 7/7/11 gives the same product as for MEC-095 -		
		Check this out)		
MEC-096	Conoco	No Product Proposed		
MEC-097	Corroco	Conoco Syncon R&O 46	Meets Specifications	
MEC-097	Shell	Shell Corena S4 R 46 (Formerly Shell Corena AS 46)		
MEC-097	Техасо	Texaco Cetus PAO 45		
MEC-D98	Conoco	Conoco Syndustrial R&O 150	Meets Specifications	
MEC-098	Shell	Shell Corena AP 150 Syn		
MEC-099	ELM Industrial	ELM Industrial Soy Trak # 1		
MEC-099	ELM Industrial Conoco	ELM Industrial Soy Trak # 1 No Product Proposed		
MEC-099	Conoco	No Product Proposed	Assaultable Contilled	Product is not a blo-based oil; but it meets environemtal
	Conoco		Acceptable - Qualified	Product is not a bio-based oil; but it meets environemtal requiements.
MEC-099	Conoco	No Product Proposed	Acceptable - Qualified	
MEC-100 MEC-100	Conoco ELM Industrial	No Product Proposed  Conoco Ecoterna Hydraulic O/I 46  ELM Industrial Hydraulic Snow Grad <b>e 45</b>		requiements.
MEC-099 MEC-300	Conoco	No Product Proposed  Conoco Ecoterra Hydraulic Off 46	Acceptable - Qualified  Acceptable - Qualified	
MEC-100 MEC-100 MEC-101	Conoco Conoco ELM Industrial Chevron	No Product Proposed Conoco Ecoterra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2	Acceptable - Qualified	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-100 MEC-100	Conoco ELM Industrial	No Product Proposed  Conoco Ecoterna Hydraulic O/I 46  ELM Industrial Hydraulic Snow Grad <b>e 45</b>		requiements.
MEC-100 MEC-100 MEC-101	Conoco Conoco ELM Industrial Chevron	No Product Proposed Conoco Ecoterra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2	Acceptable - Qualified	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-100 MEC-100 MEC-101 MEC-101	Conoco  ELM Industrial  Chevron  Conoco	No Product Proposed Canaco Ecotarra Hydraulic O.II 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2	Acceptable - Qualified	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-100 MEC-100 MEC-101 MEC-101 MEC-102	Conoco  ELM Industrial  Chevron  Conoco  Linkbelk	No Product Proposed Canaco Ecotarra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbelt 2017/Y001-S Illicone Fluid No Product Proposed	Acceptable - Qualified Acceptable - Qualified	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-100 MEC-100 MEC-101 MEC-101 MEC-102 MEC-102	Conoco ELM in dustrial Chevron Conoco Linkbeit Conoco	No Product Proposed  Conoco Ecoterna Hydraulic Oil 46  ELM Industrial Hydraulic Snow Grade 45  Chevron SRI Grease 2  Conoco Polytac Grease No. 2  Linkbelt 2017Y001-S Silicone Fluid	Acceptable - Qualified	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104	Conoco ELM Industrial Chevron Conoco Unitoeit Conoco Conoco	No Product Proposed Conoco Ecotarra Hydraulic O.II 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbert 2017/7001-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32	Acceptable - Qualified Acceptable - Qualified Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-102 MEC-102 MEC-104 MEC-104 MEC-104	Conoco E.M Industrial Chevron Conoco Linkbelt Conoco Shell	No Product Proposed Conoco Ecoterra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbelt 2017/Y001-5 Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus Hib 32	Acceptable - Qualified Acceptable - Qualified	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-100 MEC-101 MEC-101 MEC-102 MEC-102 MEC-104 MEC-104 MEC-104 MEC-105	Conoco Conoco ELM Industrial Chevron Conoco Uniber Conoco Conoco Shell	No Product Proposed Conoco Ecoterra Hydraulic O.il 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbelt 2017/Y001-5 Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 52 Conoco Syncotarial R&O 100 Shell Corens 49 F100 (Formerly Shell Corens AP 100)	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-104 MEC-104 MEC-104 MEC-105 MEC-105	Conoco  ELM Industrial  Chevron  Conoco  Unikoeit  Conoco  Shell  Conoco  Shell	No Product Proposed Canaco Ecotarra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbelt 2017/1011-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Synchatrial R&O 100 Shell Corena SA P 100 (Formerly Shell Corena AP 100) Conoco Powerdrive 10W	Acceptable - Qualified Acceptable - Qualified Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104 MEC-105 MEC-105 MEC-105 MEC-107	Conoco Conoco ELM Industrial Chevron Conoco Linibeit Conoco Conoco Shell Conoco Shell Conoco	No Product Proposed Conoco Ecoterra Hydraulic O.il 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbelt 2017/Y001-5 Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 52 Conoco Syncotarial R&O 100 Shell Corens 49 F100 (Formerly Shell Corens AP 100)	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-100 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104 MEC-105 MEC-105 MEC-107 MEC-107 MEC-107 MEC-107	Conoco E.M Industrial Chevron Conoco Unixbeit Conoco Shell Conoco Shell Conoco Shell Conoco Shell	No Product Proposed Conoco Ecoterra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbert 20.17Y001-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syndustrial R8 0 100 Shell Corens S4 P 100 (Formerly Shell Corens AP 100) Conoco Powerdrive 10W Shell Spirax S4 CX 10W (Formerly Shell Donex TC 10W) No Product Proposed	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104 MEC-107 MEC-107 MEC-107 MEC-107 MEC-107 MEC-108 MEC-108 MEC-108 MEC-108 MEC-108	Conoco Conoco ELM Industrial Chevron Conoco Linidet Conoco Shell Conoco Shell Conoco Shell Conoco Shell Conoco Shell	No Product Proposed Conoco Ecotarra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbert 2017Y001-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus Ho 32 Conoco Syndustrial RRO 100 Shell Corens SR P 100 (Formerly Shell Corena AP 100) Conoco Powderdive 10W Shell Spirax S4 CX 10W (Formerly Shell Donax TC 10W) No Product Proposed	Acceptable - Qualified Acceptable - Qualified Meets Specification Meets Specification Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-102 MEC-104 MEC-105 MEC-105 MEC-107 MEC-107 MEC-108 MEC-108 MEC-108 MEC-109	Conoco Conoco E.M Industrial Chevron Conoco Unikoelt Conoco Shell	No Product Proposed Conoco Ecoterra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbert 2017/Y001-5 Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus Hib Di 32 Conoco Syndustrial R80 100 Shell Corena SP 100 (Formerly Shell Corena AP 100) Conoco Powerdrive 10W Shell Sprace Sd CX 10W (Formerly Shell Donax TC 10W) No Product Proposed Shell AeroShell Grease 7 Conoco Kendel G-1. HP Motor Oil 10W-40	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104 MEC-105 MEC-105 MEC-107 MEC-107 MEC-107 MEC-108 MEC-108 MEC-109 MEC-109 MEC-109	Conoco Conoco ELM Industrial Chevron Conoco Linidet Conoco Shell Conoco Shell Conoco Shell Conoco Shell Conoco Shell	No Product Proposed Canaco Ecotarra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbelt 2017/1001-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncord W Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncord W Hydraulic Fluid 32 Shell Sprax 54 CX 10W (Formerly Shell Corena AP 100) Conoco Powerdrive 10W Shell Sprax 54 CX 10W (Formerly Shell Conex TC 10W) No Product Proposed Shell AeroShell Grease 7 Conoco Kendal 6T-1 HP Motor Oil 10W-40 Shell Formula Shell 10W40	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification  Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsament.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104 MEC-105 MEC-107 MEC-107 MEC-107 MEC-108 MEC-109 MEC-109 MEC-109 MEC-109 MEC-111	Conoco Conoco ELM Industrial Chevron Conoco Linibek Conoco Shell Conoco	No Product Proposed Canaco Ecotarra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbert 2017Y0IJ-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syndustrial R&O 100 Shell Corens SR 9 100 (Formerly Shell Corens AP 100) Conoco Powerdrive 10W Shell Spixx S4 CX 10W (Formerly Shell Donax TC 10W) No Product Proposed Shell AeroShell Grease 7 Conoco Kendall GT-1. HP Motor Oil 10W-40 Shell Spell Shell 10W-40 Shell Formula Shell 10W-40 Conoco Food Machinery Grease No. 2	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification  Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsement.  Product data sheet does not have the GEK 46382F endorsement.  Product data sheet does not have the GEK 46382F endorsement.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104 MEC-105 MEC-105 MEC-107 MEC-107 MEC-107 MEC-108 MEC-108 MEC-109 MEC-109 MEC-109	Conoco Conoco ELM Industrial Chevron Conoco Linkbek Conoco Shell	No Product Proposed Canaco Ecotarra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbelt 2017/1001-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncord W Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncord W Hydraulic Fluid 32 Shell Sprax 54 CX 10W (Formerly Shell Corena AP 100) Conoco Powerdrive 10W Shell Sprax 54 CX 10W (Formerly Shell Conex TC 10W) No Product Proposed Shell AeroShell Grease 7 Conoco Kendal 6T-1 HP Motor Oil 10W-40 Shell Formula Shell 10W40	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification  Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsament.  Product data sheet does not have the GEK 46382F endorsament.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104 MEC-105 MEC-105 MEC-107 MEC-107 MEC-107 MEC-109 MEC-109 MEC-109 MEC-111 MEC-111	Conoco Conoco ELM Industrial Chevron Conoco Linideit Conoco Shell Conoco Shell Conoco Shell Conoco Shell Conoco Shell Conoco Shell Conoco Linideit Conoco Linideit Li	No Product Proposed Canaco Ecotarra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbelt 2017/001-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncord W Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncord W Hydraulic Fluid 32 Shell Sorena SA P 100 (Formerly Shell Corena AP 100) Conoco Powerdrive 10W Shell Spirax SA CX 10W (Formerly Shell Corena XP 100) No Product Proposed Shell AeroShell Grease 7 Conoco Kendali GT-1. HP Motor Oil 10W-40 Shell Formula Shell 10W40 Conoco Food Machinery Grease No. 2 Lubriplate 730 Series No. 2 Grease	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification  Meets Specification  Meets Specification  Acceptable - Qualified	requiements.  Product data sheet does not have the GEK 46382F endorsement.  Product data sheet does not have the GEK 46382F andorsement.  Product data sheet does not have the GEK 46382F andorsement.  Product does not meet the viscosity specification.  Product does not the viscosity specification. VI has not been validated.
MEC-099 MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104 MEC-105 MEC-107 MEC-107 MEC-107 MEC-108 MEC-109 MEC-109 MEC-109 MEC-109 MEC-111	Conoco Conoco ELM Industrial Chevron Conoco Linibek Conoco Shell Conoco	No Product Proposed Canaco Ecotarra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbert 2017Y0IJ-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syndustrial R&O 100 Shell Corens SR 9 100 (Formerly Shell Corens AP 100) Conoco Powerdrive 10W Shell Spixx S4 CX 10W (Formerly Shell Donax TC 10W) No Product Proposed Shell AeroShell Grease 7 Conoco Kendall GT-1. HP Motor Oil 10W-40 Shell Spell Shell 10W-40 Shell Formula Shell 10W-40 Conoco Food Machinery Grease No. 2	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification  Meets Specification	requiements.  Product data sheet does not have the GEK 46382F endorsement.  Product data sheet does not have the GEK 46382F endorsement.  Product data sheet does not have the GEK 46382F endorsement.  Product data sheet does not have the GEK 46382F endorsement.  Product data sheet does not have sheet data to be a control of the control
MEC-099 MEC-100 MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-102 MEC-104 MEC-105 MEC-105 MEC-107 MEC-107 MEC-107 MEC-109 MEC-109 MEC-109 MEC-111 MEC-111	Conoco Conoco ELM Industrial Chevron Conoco Linideit Conoco Shell Conoco Shell Conoco Shell Conoco Shell Conoco Shell Conoco Shell Conoco Linideit Conoco Linideit Li	No Product Proposed Canaco Ecotarra Hydraulic Oil 46 ELM Industrial Hydraulic Snow Grade 45 Chevron SRI Grease 2 Conoco Polytac Grease No. 2 Linkbelt 2017/001-S Silicone Fluid No Product Proposed Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncon AW Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncord W Hydraulic Fluid 32 Shell Tellus HD 32 Conoco Syncord W Hydraulic Fluid 32 Shell Sorena SA P 100 (Formerly Shell Corena AP 100) Conoco Powerdrive 10W Shell Spirax SA CX 10W (Formerly Shell Corena XP 100) No Product Proposed Shell AeroShell Grease 7 Conoco Kendali GT-1. HP Motor Oil 10W-40 Shell Formula Shell 10W40 Conoco Food Machinery Grease No. 2 Lubriplate 730 Series No. 2 Grease	Acceptable - Qualified  Acceptable - Qualified  Meets Specification  Meets Specification  Meets Specification  Meets Specification  Acceptable - Qualified	requiements.  Product data sheet does not have the GEK 46382F endorsement.  Product data sheet does not have the GEK 46382F andorsement.  Product data sheet does not have the GEK 46382F andorsement.  Product does not meet the viscosity specification.  Product does not the viscosity specification. VI has not been validated.
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## This Specification to be used for all MidAmerican Energy meterials

### Attachment 2 - MidAmerican Energy Lube Oil Technical Specification Branded Lubricants

			This product is no longer available from Shell (Allied) as	
MEC-130	Shell	Shell Tivela S-680	of 11/20/2012.	
MEC-131	Fuchs	Fuchs Geralyn G-SW 2	DI 11/20/2012.	
MEC-131	Conoco	No Product Proposed		
MEC-131	Shell	Shell Cassida Grease HTS 2		
		Conoco Syncon Turbine Oli 32	Meets Specification	
MEC-133	Coneco Shell	Shell Turbo SG 32	Weets shecilication	
MEC-133				
MEC-134	Lubriplate	Lubriplate PGO 320		
MEC-134	Conoco	No Product Proposed		
MEC-135	Shell	Discontinued - Shell Dollum Grease BRB 2		
MEC-135	Open Spec	Open Spec as of 1/25/2012		
MEC-136	Dow Corning	Discontinued - Dow Corning Molykote G-0101		
MEC-136	Conoco	No Product Proposed		
MEC-136	None	None		
MEC-137	Conece	No Product Proposed		
MEC-137	Tom-Pac	Tom-Pac #2557 Industrial Gresse		
MEC-138	Shell	Aerosheli Turbine Oli 500 (Corrected to Shell 500 Ester Oli on 7/7/11)		
MEC-138	Conoco	No Product Proposed		
MEC-139	Caneco	Conoco Syndustrial R&O 32	Acceptable - Qualified	Product does not meet VI specification (130 specified vs 84).
MEC-139	Chevron	DISCONTINUED -Chevron Syntholube Compressor Oll 32		
MEC-139	Lubriplata	Lubriplate SYNAC-32	Acceptable - Qualified	Pour Point and Flash Point are both slightly off specification.
MEC-140	5hell	(Added Albida EMS-2 on 7/7/11)		
MEC-140	Mobil	Mobilith SHC 100		
MEC-140	Conoco	No Product Proposed		
MEC-141	Kluber Straburags	Kluber Straburags NBU 8 EP		
MEC-141	Солосо	No Product Proposed		
MEC-142	Dow Corning	Dow Molykote 33L		
MEC-142	Conoco	No Product Proposed		
MEC-143	Fuchs	Fuchs Renolit LSTO EP 0		
MEC-143	Conoco	No Product Proposed		
MEC-144	Cooper Power Systems	Cooper Envirotemp FR3		
MEC-144	Conoco	No Product Proposed		
MEC-145	Dow Coming	Dow Molykote 44M		
MEC-146	Supresta (ILC)	Fyrequel Plus		

## **CONFIDENTIAL EXHIBIT B**

## THIS EXHIBIT IS CONFIDENTIAL IN ITS ENTIRETY AND WILL BE PROVIDED SUBJECT TO THE PROTECTIVE ORDER IN THIS DOCKET

## **CONFIDENTIAL EXHIBIT B.1**

## THIS EXHIBIT IS CONFIDENTIAL IN ITS ENTIRETY AND WILL BE PROVIDED SUBJECT TO THE PROTECTIVE ORDER IN THIS DOCKET

## **CONFIDENTIAL EXHIBIT B.2**

## THIS EXHIBIT IS CONFIDENTIAL IN ITS ENTIRETY AND WILL BE PROVIDED SUBJECT TO THE PROTECTIVE ORDER IN THIS DOCKET



PacifiCorp Procurement 825 NE Multnomah Street, Suite 940 Portland, Oregon 97232

## Purchase Order

Shipping Address	
·	
Vendor Address	
CONTRACTOR	
DALLAS, TX 97654	
USA	
Vendor Phone:	
Vendor Fax:	
)	
Billing Address	
PacifiCorp	
Accounts Payable Department	
P.O. Box 3040	Ì
Portland, OR 97208 - 3040	- 1

Information P.O. Number Date 01/01/2011 Vandor No. Payment Terms Description NET 30 Buyer Phone Fax **Delivery Date** 01/01/2011 inco Terms Description NA Inco Terms (Part X) N/A Show the Purchase Order Number on all packages, invoices, bills of lading and correspondence. Send invoices to Accounts Payable

Department. Notify buyer immediately: (1) if unable to ship or deliver on dates specified below or (2) when description is incorrect

ALL TERMS AND CONDITIONS OF THIS PURCHASE ORDER WORK RELEASE WILL BE GOVERNED BY THE GENERAL SERVICES CONTRACT
EXECUTED BETWEEN PACIFICORP AND CONTRACTOR.

or superceded.

This Work Release is entered into by and between ("Contractor") and PACIFICORP ("Company").

Reference Exhibit A, Scope of Work or the applicable Scope of Work referenced herein for definition of work to be performed.

Reference Exhibit C of the General Services Contract or the applicable pricing schoolule referenced herein for pricing applicable to this Release.

To facilitate prompt payment, ensure all invoices list the Purchase Ordar Work Release Number and are addressed and/or emplied to:

PacifiCorp Energy

**Currency: USD** 

Valid From: 01/01/2011 To: 12/31/2011

item	Material/Description	Quantity	UM	Net Price	Per	UM	Net Amoun
10		1.00	SVC	0.00	1	SVC	0.00
	General Services				-		0.00
	Release Order Against Contract:	460000XXXX					





PacifiCorp Procurement 825 NE Multnomah Street, Suita 940 Portland, Oregon 97232

## Purchase Order

- 05/14/2009

Total Net Value	USD	0.00										
Vendor shall furnish the Goods and Services specified above in accordance with this Purchase Order, including the provisions tace hereof and any other provisions attached to, incorporated into, or otherwise made a part of this Purchase Order.	set forti	on the										
This Purchase Order shall be governed by the terms and conditions of the Master Agreement executed by the parties to this Purchase Order and to which the items in this Purchase Order are identified.												
and harmonic and analysis of all and an and about Court Solids/CESS-SEATS												
		Ш										

## Exhibit C2

## FORM OF PURCHASE ORDER MIDAMERICAN ENERGY COMPANY

OBSZOBNELY, RELENTIZESLY AZ YOUN GENYIGE. MidAmerican THEROY

PLEASE ENTER THIS PURCHASE ORDER SUBJECT TO THE ACCOMPANYING TERMS AND CONDITIONS.

VENDOR PLEASE NOTE:

PO BOX 3006 SIOUX CITY,IA 51102

BILL TO:

REV PAGE 0 1 PURCHASE ORDER PURCHARE ORDER NO.

388196

THIS PO NUMBER MUST APPEAR ON ALL INVOICES, PACKING LISTS, CARTONS AND CORRESPONDENCE RELATED TO THIS ORDER.

MIDAMERICAN ENERGY COMPANY URBANDALE BUSINESS CENTER 4299 NW URBANDALE DR URBANDALE, IA 50322-7916

PO BOX 4567 ANYTOWN,IA 12345-4567

SUPPLY COMPANY INC 1234 MAIN STREET

DATE OF ORDER 3 DATE OF REVISION 30-JAN-12	BEST WAY		CE TAX		-	3K = -	55 - 0-	· =	000	100.00
		i le	EXTENDED PRICE 100.00							
		DICKMAN, DOUGLAS D	100.00 100.00	9	-	1 N	(E) 40s	15/62	TOTAL	I CIAL
	Aur.	DICK	NOT A	 ***	(5)		- T. D.	-	ATURE	ically
		7 k.s	3: W		-				NOIS G	Electror
URBANDALE,IA 50322-7916	DESTINATION		QUANTITY						<b>AUTHORIZED SIGNATURE</b>	Approved Electronically
		Dec K		 	₽	···				
		()	DELIVERY DATE 01-MAR-12	 di iking si m	0 X = 100	( <del>44</del> 1)		-	)RESS	MJStanwood@midamerican.com
	TERMS	4567	36-						EMAIL ADDRESS	wood@mid
	PREPAID/ALLOWED	(800) 123-4567	BE PURCHASED							MJStarr
		0	TION BE PUR						MBER	4231
	AYS ,	VENDOR CONTACT/CONFIRM T	DESCRIPTION OF GOODS OR SERVICES TO BE P						FAXNU	515-242-4231
	PAYMENT TERMS NET 30 DAYS	JANE DOE	IUMBER OR SERV						IBER	524
	PA NE	/ENDOR C	PART N OODS C						PHONE NUMBER	515-281-2524
	7		NOFG						Ŧ	<u>م</u> ا
	VENDOR # 200 112745	CURRENCY US Dollar	RIPTIO						X.	MOOD
	VENI 112	CURRENCY US Dolla		_					BUYER	M STANWOOD
		Ser. Co.	LINE 1							<u>≥</u>

Date: 30-JAN-12 16:37 CT

MARION STANWOOD

## Exhibit C.3

FORM OF PURCHASE ORDER NV ENERGY



## PURCHASE ORDER

## Sierra Pacific Power Company d/b/a NV Energy (NVE)

Send Invoice To:

NV Energy; Accounts Payable

PO BOX 10100 RENO NV 59520-0024

Purchase Order : 00146515R00008

Revision:

Release: 0000B

Ext:

Date Printed

: 11/22/13

Page Number : 1

Counterparty:

ATTEN SALES PO BOX 7900

SAN FRANCISCO CA 94120

Please Direct Inquiries to:

LISA TOY

Title: FURCHASING AGENTI

Dept : Procurement

Phone: (702) 402-5415

Fax : (702) 402-0626

ltoy@nvenergy.com

Payment Terms :

Days Net 30 Days ERS: N Ref Contract:

Primary Ship Ter

SIERRA PACIFIC POWER COMPANY

Deliver 6:30am - 1pm, M-P only

Valmy Power Station I-80, Stonehouse Exit 212 North Valmy NV 89438 ATTN:Receiving

Transit type :

**BEST WAY - SHIPPER'S OPTION** 

DESITNATION, FREIGHT PREPAID CHARGED

Carrier Name :

FOB Point :

DESTINATION

Instructions & Notes

This Blanket Purchase Order is written as an Invoice and Pending reference. Please Reference PO and RELEASE

on all invoices.

PLEASE NOTE: MAY CONTAIN MULTIPLE

'SHIP TO' ADDRESSES

Purchasing POC: Lisa Toy 702,402,5415

0001

Oby 2

UP Catalog ID EA 0000133189 Unit Price

Extension

TAXABLE

Qty

Delivery Date:

11/22/13

Description:



## PURCHASE ORDER

## Sierra Pacific Power Company d/b/a NV Energy (NVE)

Send Invoice To: NV Energy, Accounts Payable PO BOX 10100 REMO NV 89520-0024

Purchase Order : 00146515R00008

Release: 00008

Date Printed

: 11/22/13

Page Number

; 2

Mftr/Vendor : 9 8 8 8 8

Mod d

97000-030/9156ENWF

Purchase Order Total Amount

TOTAL THIS PO:

Value of w

\* \* \* End of Purchase Order \* \* \*

Counterparty's written accorptance, delivery of goods or parvices, or performance of this Purchase Order creates a contract, NV Energy's Standard Purchase Order Tenns and Conditions apply.

This Purchase Order may be used to accept formal offers submitted in response to a Request for Proposal (RFP), or to fund bilaterally executed contracts. In such cases, the terms and conditions of the RFP or the Contract apply and take precedence over NV Hostgy's Standard Parchage Order Terms and Conditions.

LISA TOY

Designated Buyer

The parties agree that this Purchase Order shall be governed by the Testos and Conditions located at:

http://www.nvenergy.com/company/doingbusiness/suppliers/index.cfm which are incorporated herein by reference. Sellar represents by its execution hereof or performance hereunder that it has read and agrees to be bound by such terms and conditions.

## Exhibit C.4

## FORM OF PURCHASE ORDER CALENERGY OPERATING CORPORATION



SANTA MONICA, CA 98765

United States

123 MAIN STREET

VENDOR SEA

PLEASE ENTER THIS PURCHASE ONDER SUBJECT TO THE ACCOMPANYING TERMS AND CONDITIONS.

EMAIL: PAYABLES@CALENERGY,COM CALENERGY OPERATING CORP. ATTN: ACCOUNTS PAYABLE CALIPATRIA,CA 92233 7030 GENTRY ROAD

PURCHASE ORDER WH-97000 PURCTURE OFFICE NO.

REV PAGE

THIS PO MINIBER MUST APPEAR ON ALL INVOICES, PACKING LISTS, CARTONS AND CORNESPONDENCE RELATED TO THIS ORDER.

CALENERGY OPERATING CORP. CALIPATRIA,CA 92233 7030 GENTRY ROAD

DATE OF ORDER DATE OF REVISION 6-JAN-13

SMITH, Mr. BRIAN C (BRIAN) BEST WAY NOTE DE LES DESTINATION FOR (555) 555-6666 FAX MULLIPER PREPAID/ALLOWED TELEPHONE MUMBER (555) 555-5555 VERSIOR CONTACT/CONFIRM TO NET 30 DAYS US Dollar CURTENCY VENDOR # 119330

THIS PURCHASE ORDER IS SUBJECT TO SALES & USE TAX AS FOLLOWS: STATE OF CALIFORNIA: 7,25%; IMPERIAL COUNTY: 1/2%

ALL INVOICES SHALL INCLUDE PURCHASE ORDER NUMBER AND LINE ITEM NUMBER(S) TO AID IN PROCESSING OF PAYMENTS. FAILURE TO INCLUDE THESE NUMBERS WILL RESULT IN THE RETURN OF INVOICES FOR CORRECTION BY THE CONTRACTOR OR VENDOR WITHOUT COST TO CALENERGY OPERATING CORPORATION

VENDOR OR CONTRACTOR TO PROVIDE AN ALL INCLUSIVE BILLING 80 AS TO MINIMIZE THE POSSIBILITY OF RESIDUAL INVOICES BEING RECEIVED BY CALENERGY OPERATING CORPORATION. THE PURCHASE ORDER AMOUNT IS "NOT TO EXCEED" WITHOUT PRIOR WRITTEN AUTHORIZATION FROM A CALENERGY PURCHASING REPRESENTATIVE.

VENDOR ACCEPTS THIS PURCHASE ORDER BY ELECTRONIC SIGNATURE. BY ACCEPTING OR FILLING THIS ORDER OR ANY PART THEREOF, VENDOR AGREES TO CONDUCT THIS TRANSACTION VIA ELECTRONIC MEANS AND TO BE BOUND BY THE ACCOMPANYING TERMS AND CONDITIONS.

UNIT PRICE EXTENDED PRICE 90: Date: 16-JAN-13 13:59 CT TOTAL: **AUTHORIZED SIGNATURE** Approved Electronically 305 NANCY ANDRADE A PAYABLES@CALENERGY.COM DELVERY DATE | QUANTITY QUANTITY PLEASE EMAIL ALL INVOICES TO: 16 FEB-13 EMAIL ADDRESS FAX NUMBER PART NUMBER / DESCRIPTION DESCRIPTION OF GOODS OR SERVICES PHONE NUMBER N ANDRADE LINE

## **Exhibit E**

## AFFILIATES LIST AND PRINCIPAL BUSINESS ADDRESS

Berkshire Hathaway Energy 666 Grand Avenue, Suite 500 Des Moines, IA 50309-2580

CalEnergy Generation 7030 Gentry Road Calipatria, CA 92233

CalEnergy Philippines 24 Floor, 6750 Building 6750 Ayala Avenue Makati, Metro Manila Philippines 1226

HomeServices of America, Inc. 333 South 7th Street, Suite 2700 Minneapolis, MN 55402

Intelligent Energy Solutions, LLC 980 Birmingham Road, Suite 501 Milton, GA 30004

Kern River Gas Transmission Company 2755 East Cottonwood Parkway, Suite 300 Salt Lake City, UT 84121

Metalogic Inspection Services 400, 10525—170 Street NW Edmonton Alberta Canada, T5P 047

MidAmerican Energy Company 666 Grand Avenue, Suite 500 Des Moines, IA 50309-2580

MidAmerican Renewables, LLC 666 Grand Avenue, Suite 500 Des Moines, IA 50309-2580 MidAmerican Transmission 825 NE Multnomah Street, Suite 1600 Portland, OR 97232

Nevada Power Company dba NV Energy 6226 West Sahara Avenue Las Vegas, Nevada 89146

Northern Natural Gas Company 1111 South 103rd Street Omaha, NE 68124-1000

Northern Powergrid Lloyds Court Newcastle United Kingdom 50322-7916

PacifiCorp 825 NE Multnomah Street, Suite 400 Portland, OR 97232

Sierra Pacific Power Company dba NV Energy 6100 Neil Road Reno, Nevada 89511

## 2014 Berkshire Hathaway Energy Company

## Affiliate Participation Letter

TO: Phillips 66 Company

This letter confirms the intent of PacifiCorp to participate in and utilize the contract documents of the lubrication supply contract (the "Contract") between Berkshire Hathaway Energy Company and Phillips 66 Company that became effective December 23, 2014. We have reviewed the terms and conditions of the Contract in detail and agree to abide by them. It is understood and agreed that each Affiliate participating in this Contract is solely responsible and liable for its own purchases and payment to the appropriate entity for products or services provided to that Affiliate. Berkshire Hathaway Energy Company and the other Affiliate companies shall have no liability for payment or other obligations, contractual or otherwise, incurred by the specific Affiliate.

Further, we agree and acknowledge that the terms, conditions, and applicable appendices or exhibits set forth in the Contract will apply to Phillips 66 Company and PacifiCorp. As a participating majority-owned Affiliate, in return for Phillips 66 Company's commitments, it is our intention to purchase material, equipment, or work in accordance with the Contract. It is understood and agreed that material, equipment, or work will be provided in accordance with this Contract.

All invoices for material, equipment, or work for PacifiCorp shall be addressed as follows:

PacifiCorp

Attn: Accounts Payable Department

P.O. Box 3040

Portland, OR 97208-3040

Sincerely, PacifiCorp

Printed: Micheal G. Dunn

Title: President and Chief Executive Officer

Date: \\5\15