

September 11, 2015

VIA ELECTRONIC FILING AND OVERNIGHT DELIVERY

Steven V. King
Executive Director and Secretary
Washington Utilities and Transportation Commission
1300 S. Evergreen Park Drive S.W.
P.O. Box 47250
Olympia, WA 98504-7250

RE: Docket UE-15 —Affiliated Interest Filing—Phillips 66 Company

Under the provisions of RCW 80.16.020 and in accordance with WAC 480-100-245, Pacific Power & Light Company, a division of PacifiCorp (Pacific Power or Company), provides 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 Berkshire Hathaway Energy Company (BHE). BHE is a subsidiary of Berkshire Hathaway Inc. On August 28, 2015, Berkshire Hathaway Inc. acquired 10 percent of the outstanding common stock of Phillips 66, causing it to become a new affiliate of Pacific Power. RCW 80.16.010 includes in its definition of "affiliated interest," "every corporation five percent or more of whose voting securities are owned by any person or corporation owning five percent or more of the voting securities of such public service company or by any person or corporation in any such chain of successive ownership of five percent or more of voting securities." Therefore, Berkshire Hathaway, Inc.'s ownership interest in BHE and Phillips 66 creates an affiliated interest relationship between Pacific Power and Phillips 66.

Phillips 66 sells to Pacific Power gear and engine lubricating oil, transformer insulation oil, hydraulic oil, grease, and other lubricating and insulating petroleum and synthetic fluids, all used in the normal operations of PacifiCorp's generation, mining and distribution operations. Pacific Power purchased such supplies from Phillips 66 before August 28, 2015, and desires to continue using Phillips 66 as one of its lubrication product suppliers. The oil and grease is purchased from time to time via purchase orders, in the same manner as other supplies purchased under blanket agreements via PacifiCorp's procurement department. Phillips 66 had a pre-existing master materials supply contract in place with BHE and certain of its subsidiaries, including PacifiCorp (the Agreement). Purchase order transactions are done by PacifiCorp under this Agreement. A copy of the Agreement is included with this Notice as Attachment A.

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

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

Pacific Power requests confidential treatment for Exhibits B, B.1, and B.2 in accordance with WAC 480-07-160. These exhibits contain commercially sensitive pricing information that could expose the Company and Phillips 66 to competitive injury if disclosure is unrestricted. Therefore, the Company requests confidential treatment on the basis that the documents contain "valuable commercial information, including trade secrets or confidential marketing, cost, or financial information, or customer-specific usage and network configuration and design information," as provided in RCW 80.04.095 and in accordance with WAC 480-07-160(2)(c).

Also included with this filing is a notarized verification from Jeff Erb, Assistant General Counsel, Pacific Power, regarding the Agreement.

It is respectfully requested that all formal correspondence and Staff requests regarding this material be addressed to:

By E-Mail (preferred): datarequest@pacificorp.com

By regular mail: Data Request Response Center

PacifiCorp

825 NE Multnomah Street, Suite 2000

Portland, Oregon, 97232

Please contact Ariel Son, Manager, Regulatory Projects, at 503-813-5410 if you have any informal questions.

Sincerely,

R. Bryce Dalley / As

Vice President, Regulation

Enclosures

WASHINGTON AFFILIATED INTEREST FILING ATTACHMENT A AGREEMENT

MASTER MATERIALS SUPPLY CONTRACT

BETWEEN

BERKSHIRE HATHAWAY ENERGY COMPANY

AND

PHILLIPS 66 COMPANY

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EXHIBIT B.1-PRICING ESCALATION AND DE-ESCALATION

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EXHIBIT C-FORM OF PURCHASE ORDER

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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 ▶ecember 31, 2€19, unless earlier terminated as provided herein.

Werk 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:		If to Supplier:		
Berkshire Hathaway Energy Company		Phillips 66 Company		
825 NE Multnomah Street, Suite 400		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 F B 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, provided, 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 re-performance 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:

Workers' Compensation. 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 1 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 TER.

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; (iii) suspend all orders and subcontracts with respect to the suspended Materials or Work; (iv) 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 eause, 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

Definition of Confidential Information. 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.

Nondisclosure. 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. <u>SEVERABILITY</u>

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 ARRITRATORS SHALL NOT CONSIDER OR AWARD PUNITIVE DAMAGES AS A REMEDY. UPON THE COMPANY'S REQUEST, AAA SMALL 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

(Date Executed)

i his Contract has been executed by at	ily authorized representatives of the Parties and shall be effective as of
date of execution by Company. /	
SUPPLIER: \	COMPANY:
Phillips 66 Company	Berkshire Hathaway Energy Company
By: Mynully	By: ////
Name: (Signature) FAC: A. (Type or Print)	"(Signature) Naumeureen E. Sammon Sr. Vi ^{Sygnau} Civilet Administrative Olike
Title: MANGE FINISH	2. Title: 12/23/14

(Date Executed)

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</u> 1.1(b), 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 Schedule 1. 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 Schedule 1, 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 subsection 1.3.
- (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 <u>subsection 1.2(c)</u>.

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 <u>Section 2</u> 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 CPS 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	
Comi	pany Name:	
	9\$\$:	
Phon	e: Fax:	
Conti	ractor / Vendor Name:(Include middle initial, if applicable: First, Mid	idle, Last)
(1)	Successfully Passed Employer's Drug and Alcohol Exam? Yes	
	(Yes – mm/dd/yyyy)	
(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	No
	(Yes – mm/dd/yyyy)	
Mana	ger Signature of Contractor / Vendor Employer	Date
	PacifiCorp Approvals	
Signa	ture of PacifiCorp Hiring Manager	Date
Printe	d Name of PacifiCorp Hiring Manager	
	ntractor / Vendor did not pass the Background Check or Drug and Alco ception is requested provide reason for exception:	ohol Exam, b ut
Accor	stad by ParifiCorn Chiaf Compliance Officer	Nato

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.

 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.

Wmst.	nf	Appendi:	w.
22222	V.S.	F3.2.7 S.F V. B.E.V.S.S.	A.

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 Assex 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.

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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 CPS 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

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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
· ·	100.0000	Identify your lacal office dosest to Company	focation	Kenny Strickland Inc./Coachella, CA	Union Distributing/Phoenix AZ	MOLO OII/Eldridge, IA	Farrell Oil Co /Wilton, NY	Pilot Logistics/Odessa, TX
m	auuv		Physical Address	7030 Gentry Road, Calipatria CA 92233	280 North 27th Orive, Yuma, AZ 85964	24712 182 Avenue N, Cordova, IL 61242	99 Weed Street Extension, Plattsburgh, NY 12901	SOO Revindry Road, Big Spring, TX 79720
 an and a second	min		Location Name	Warehouse/Auto Shop/ WAC	Yuma Cogeneration Associates	Cordova Energy Center	Saranac Power	Power Resources
			E	CalEnergy Operating Corporation		Cordova Energy Center	Saranac Power	Power Resources

Appendix 4 - Company Locations MidAmerican Energy

Company	Location Warse	Physical Address	Mailing Address	Ĉ	**************************************	\$	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	TA THE	51501	Mehrada Iowa Supply, Omaha NE	
MidAmerican Energy Company	(Neal Energy Center (Neal South)	(2761 Port Neal Circle		Salix	8	51052	Nobranka Iowa Suppity, Omaha NE	
MidAmerican Energy Company	(Neal Energy Center (Neal North)	1051 260 th Street		Sergeant Bluff	S	21054	Nebraska lows Supply, Caraba NE	Distributor's muck
MidAmerican Energy Company	Riverside Generating Station	6001 State Street		Bettendorf	×	52722	MOX.O, Eldvidge 1A	Diaributor's track
MidAmerican Energy Company	Louisa Generating Station	8602 172 ^{ml} Street		Muscatine	\$	52761	MEX.C., Eldrings 1A	Digribator's truck
MidAmerican Energy Company	Greater Des Moines Energy Center	4401 Carllsle Road	***************************************	Pleasant Hill	S	50327	Boyer Petroleum, Des Moines IA	Distributor's med:
MidAmerican Energy Company	Avoca Service Center	361 South Elm	PO 80x 98	Avoca	×	51521	Nelxaska Iowa Supsiy, Onsala MT	Distributor's track:
MidAmerican Energy Company	Bettendorf Service Center	5955 Fenno Road		Bettendorf	S	52722	MOLO, Eidridge IA	Distributor's truck
MidAmerican Energy Company	Codar Rapids Service Center	602 D Avenue NW		Cedar Rapids	S	52405	MACO, Didvidge IA	Dehibutura unck
МідАтегісан Energy Company	Clarksville	212 S Main Street	-	Clarksville	S	50619	Boyer Petroleum, Des Mokees IA	Digripator's track
MidAmerican Energy Company	Council Bluffs Service Center	3003 South 11th Street		Council Bluffs	<u>s</u>	51501	Networks lows Supply, Omska ME	Distributor's track
MidAmerican Energy Company	Delaware Service Center	4845 NE 22nd Street		Des Moines	<u>.</u>	51303	Boyer Petroleam, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Des Moimes Gas ING-LPG Plant	4845 NE 17th Court		Des Moines	<u> </u>	50313	Boyer Petroleim. Des Moines IA	Distributor's track
MidAmerican Energy Company	Greenfield Service Center	2351 E County Line Road		Des Moines	≤.	50320	Boyer Petroletim, Das Moities IA	Distributor's track.
MidAmerican Energy Company	Pleasant Mill Energy Center	3191 SE 45th Street		Pleasant Hill	≪.	50317	Boyer Petroleum. Des Moines IA	Distributor's track
MidAmerican Energy Company	River Hils Energy Center	105 Watson Powell Way		Des Moines	<u> </u>	(50309	Boyer Petroleum, Des Maines IA	Dénseibutorie track
MidAmerican Energy Company	Sycamore Energy Center	6141 NW Beaver Drive		Johnston	<u> </u>	50131	Boyer Petroleum, Des Momos IA	Distributor's truck:
MidAmerican Energy Company	Walnut Ridge Service Center	10510 Douglas Avenue		Urbandale	<u> </u>	50322	Bayer Petroleurs. Des Maines 1A	Distributor's track
MidAmerican Energy Company	Two Rivers Service Center	201 St 1st Street		Des Moines	~	50309	Boyer Fetroleom, Des Maines IA	Distributor's truck:
MicAmerican Energy Company	Fort Dodge Service Center	637 S 22nd Street		Fort Dodge	S	50501	Boyer Petrologia, Des Maines IA	Distributor's tract:
МidAmerican Energy Company	lowa City Service Center	1630 Lower Muscatine Road		lowa City	<u> </u>	52240	MOLO, EMHIGGE IA	Distributor's track
MidAmerican Energy Company	EMars	1171 Prospect Street SW		Le Mars	S	51031	Netraska lowa Supply. Omsta NE	Distributor's trisck
MidAmerican Energy Company	Oskaloosa Service Center	2411 North Market Street		Oskaloosa	<u> </u>	52577-1855	Boyer Permissen, Des Maines 1A	Distributor's muck
MidAmerican Energy Company	Ottumwa Service Center	302 S Vine Street		Ottumwa	\$	52501	Boyer Pettiliaen, Des Maines IA	Distributor's truck
MidAmerican Energy Company	Red Oak	311 Alx		Red Oak	3	51566	Netwata lowa Supply, Omaha ME	Distributor's truck
MidAmerican Energy Company	Rock Island Service Building & Garage	2811 5th Avenue		Rock Island		61201	MCLO, Eldsidge 1A	Distributor's truck
MidAnvertican Energy Company	Rock Valley Energy Center	1700 HWY 18		Rock Valley	S	51247	Nebraska fowa Supply, Omaha NE	Distributor's mok
MidAmerican Energy Company	Schaller Wind Farm	506 W 2nd Streat		Schaller	<u> </u>	51053	Boyer Ponoleum, Des Moines 1A	Distributor's trask
MidAmerican Energy Company	Shenandoah	900 W Ferguson Road		Shenandoah	«	21601	Nebraska lowa Supply, Onaha NE	Distributor's truck
MidAmerican Energy Company	Sloux City Service Center	223 S lowa Street		Sloux City	×.	51101	Nebraska towa Supply, Onaba NE	Distributor's truck
MidAmerican Energy Company	Sioux City Fleet Maintenance Center	3990 Southgate Orive		Stoux City	<u>s</u>	51106	Nebraska towa Supply. Omaha Mf	Distributor's track
MidAmerican Energy Company	Slow Falls Service Center	1200 S Blauvelt		Sioux Falls	g	57105	Nebrača Ions Supply, Onels NE	Distributor's track
MidAmerican Energy Company	Stom Lake Service Center	1018 N Vestal Street		Storm Lake	\$	50588	Boyer Petroleren. Des Meines IA	Dignibator's truck
MidAmerican Energy Company	Urbandale Business Center	4299 Northwest Urbandale Dr		Urbandale	<u> </u>	50322.7916	Boyer Petroleum, Dos Maines 1A	Distributor's track
MidAmerican Energy Company	Vermillon	1103 317th Street	419 W Cherry Street	Vermillion	8	57069	Medenska lowa Supply, Cansim WE	Distribator's track
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

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obining the state of the state	***************************************				Identify your local office closest to	Will standard delivery occur via your truck or
Location Name	Location Address	City	State	Zip Code	Company location	common carrier?
INNG2 GARNER	2315 YALE AVE	Garner	IA	50438	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
INNG2 VENTURA	\$	Garner	tia	50438	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 GUTHRIE CENTER	Anne market and the commence of the commence o	GUTHRIE CENTER	ÍΑ	50115	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 HUBBARD	Annual Commence of the Commenc	HUBBARD	la	50122	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 OAKLAND	46299 U.S. HIGHWAY 6	Oakland	lia	51560-4557	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 OGDEN	608 210TH STREET	Ogden	lia	50212	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
INNG2 PAULINA		Paullina	IA	51046	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 REDFIELD	24282 G AVENUE	Redfield	liA	50233	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 WATERLOO CDC	1508 E SCHROCK RD.	Waterloo	lia	50701	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
INNG2 BUSHTON	785 STATE RD. 4	Bushton	KS	67427	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 CLIFTON	2930 GAS CITY ROAD	Clifton	KS	66937-0160	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 CUNNINGHAM	20307 NE 150TH AVE	Cunningham	KS	67035	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 HOLCOMB	9480 W HWY 50	Holcomb	lks	67851	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 SUBLETTE	21947 HWY 83	Kismet	KS	67859	Parker Oll, Witchita KS	Common Carrier/Distributor Truck
NNG2 LYONS	In a majoriment management of the second manag	Lyons	KS	67554	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 MACKSVILLE	145 F ROAD	Macksville	KS	67557-5808	Parker Oll, Witchita KS	Common Carrier/Distributor Truck
NNG2 MULLINVILLE	14049 17TH AVENUE	Mullinville	KS	67109	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 TESCOTT	685 NORTH 40TH ROAD	Tescott	KS	67484-0156	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 NEGAUNEE	118 US HWY 41 E	NEGAUNEE	MI	49866	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 CARLTON	1995 NORTHERN NATURAL GAS	Carlton	MN	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	241 4TH AVENUE N - SUITE 120	Foley	MN	56329	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 NORTH BRANCH	6579 420TH STREET	Harris	MN	55032-2116	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 OWATONNA	2586 SE 28TH STREET	Owatonna	MN	55060	Northern Energy, Gaylord Mi	Common Carrier/Distributor Truck
NNG2 WELCOME	1186 HIGHWAY 263	Welcome	MN	56181	Northern Energy, Gaylord Mi	Common Carrier/Distributor Truck
NNG2 WILLMAR	605 23RD STREET SW	WILLMAR	MN	56201	Northern Energy, Gaylord Mi	Common Carrier/Distributor Truck
NNGZ WRENSHALL	2301 COUNTY ROAD #1	Wrenshall	MN	55797	Northern Energy, Gaylord Mi	Common Carrier/Distributor Truck
NNG2 BEATRICE	30694 US HWY 77	Beatrice	NE	68310-7709	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 SOUTH OMAHA	8300 CEDAR ISLAND ROAD	Bellevue	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	IJ.	68776	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 BEAVER	5 MI E of ELMWOOD ON HWY 2/Beaver	Beaver	ž	73932	Pilot Logistics, Oklahoma City OK	Common Carrier/Distributor Truck
NNG2 CHEYENNE	17 MINW OF ELK CITY	CHEYENNE	š	73628	Pilot Logistics, Oklahoma City OK	Common Carrier/Distributor Truck
NNG2 ROGER WILLS	12 Mi NW OF ELK CITY ON RAND Chayeme	Сћеуеппе	š	73628	Pilot Logistics, Oklahama City OK	Common Carrier/Distributor Truck
NNG2 CLARK	1025 1ST AVE W	CLARK	S	57225	Homax Oll, Gillette WY	Common Carrier/Distributor Truck
NNG2 HARRISBURG	47493 272ND STREET	Hamisburg	SD	57032	Homax Oil, Gillette WY	Common Carrier/Distributor Truck
NNG2 ANDREWS	915 NW MUSTANG DRIVE	ANDREWS	X	79714	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 BIG LAKE	104 N PLAZA AVENUE	Big Lake	X	76932	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 CANADIAN	10910 SOUTH US HWY 83	Canadian	X	7901a	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 KERMIT	2 MI S OF KERMIT ON HWY 18	KERMI	X	79745	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SPRABERRY	13401 COUNTY ROAD 230 EAST Midland	Midland	X	90/6/	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SKELLYTOWN	1000 1ST STREET	Skellytown	X	79080	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SPEARMAN	8 MIS of SPEARMAN ON FM 760 Spearman	Spearman	X	79081	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SUNRAY	7174 FM 119	Sunray	X	38062	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 PLATEVILLE	5557 COUNTY ROAD D	Platteville	8	53818	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck

Appendix 4 - Company Locations PacifiCorp

Division	Locaton Name		Maßing Address	å	<u></u>	Š	identify your local office closest to Company location	Will standard delivery occur via your truck or common carrier?
Pacificorp Energy	im Sridger Plant	8 Mi NE Point of Point of Rocks	P.O. Box 158	Point of Rocks	W	82942	Homax, Rock Springs WY	Distributor's truck/Common Camier
PscifiCorp Energy	Dave Johnston Plant	1591 Tank Farm Road	1591 Tank Farm Road	Glenrock	Š	82637	Homax, Casper WY	Distributor's truck/Common Carrier
Pacificorp Energy	Wyodak Plant	48 Wyodek Road	48 Wyodak Road	Gillette	WY	87716	Homax, Gillette WY	Distributor's truck/Common Carrier
Pacificorp Energy	Naughton Plant	Hwy 189 5 of Kemmerer	Hwy 189 5 of Kemmerer	Kemmerer	W	83101	Hornex, Rock Springs WY	Distributor's truck/Common Camer
Pacificorp Energy	Gadsby Plant	1339 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	New 10 5 of Castle Date	P.O. 8cx 569	Castle Date	5	e4513	Thomas Petroleum, Price UT	Olstributor'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
Pacificorp Energy	Current Creek Plant	2096 W. 300 N	2096 W. 2300 N.	Mona	5	84645	Thomas Petrolaum, No. Salt Lake, UT	Distributor's truck
Pacificorp Energy	Lake Side Plant	1825 N Pioneer Lane	1825 N Plonear Lans	Vineyard	5	84058	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Pacificorp Energy	Chehalis Plant	1813 Sickop Road	1313 Bishop Road	Chehalis	**	98532	Small & Sons, Auburn WA	Distributor's truck/Common Carrier
Pacific Power	Walls Walls	650 E. Douglas	650 E. Douglas	Wells Walks	Š	89362	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Wells Walls Tech Ops	75 Duncan Lane	75 Duncan Lane	Walls Walls	×××	39362	Small & Sons, Auburn WA	Distributor's truck/Common Carrier
Pacific Power	Yakina hub Warehouse	500 North Keys Road	500 North Keys Road	Yakima	W.	98901	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Bend	328 NE Webster	328 NE Wahater	Bend	äÖ	97701	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Bend Tech Op's	201 SW Columbia	201 SW Columbia	Bend	ő	97702	Small & Sons, Auburn WA	Distributor's truck/Common Carrier
Pacific Power	Afbany Hub Warehouse	830 Old Salem Road	830 Old Salam Road	Albany	e E	97321	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Grants Pass	1420 Williams Hwy	[1420 W/lilams Hwy	Grants Pass	ĕ	97527	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Medford Hub Warehouse	925 S. Grape Street	925 £. Grape Street	Medford	ő	97501	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Yrnka Warehouse	300 S. Math	PO 80x 248	Yreka	ర	36097	Small & Sons, Auburn WA	Distributor's truck
Rocky Mountain Power	Casper Hub Warehouse	2340 E Vallowstone Hwy	2840 E Yallowstone Hwy	Casper	Ş	82602	Homax, Casper WY	Distributor's truck
Rocky Mountain Power	Buffato	62 T W Road	125 S. Main	Buffalo	Š	82834	Homax, Gilletta WY	Distributar's truck
Rocky Mountain Power	Cody	226 W Yelfowstone Avenue	226 W Yellowstone Avenue	(20¢	3	82414	Homax, Caspar WY	Distributor's truck
Rocky Mountain Power	Evanston	105 Commerce Dr	105 Commerce Dr	Evanston	Ž	82930	Homax, Rock Springs WY	Distributor's truck
Rocky Mountain Power	Rock Springs Warehouse	415 N Street	415 M Strant	Rock Springs	×	82901	Homax, Rock Springs WY	Distributor's track
Rocky Mountain Power	Practon Hub Warehouse	509 \$. 200 E.	P O Box 432	Preston	2	83263	Thomas Petroleum, No. Sait Lake, UT	Distributor's track
Rocky Mountain Power	Montpeller	425 Clay Street	425 Clay Street	Montpellar		83254	Thomas Petroleum, No. Sait Lake, UT	Distributor's track
Rocky Mountain Power	Smithfield	780 North Main Street	780 North Main Street	Smithfield	5	84335	Thomas Petraleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Layton	635 North 1,200 West	635 North 1200 West	Layton	5	84041	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Sattlake Metro	1559 Wast North Temple	1559 West North Temple	Saft Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Saft Lake Tech Ops	1359 West North Temple	1359 West North Temple	Salt Lake City	5	84116	Thomas Petroleum, No. 5alt Lake, UT	Distributor's truck/Common Carrier
Rocky Mountain Power	Sait Lake Toolmom	1559 West North Tample	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. Sait Lake, UT	Distributor's truck
Rocky Mountain Power	Jordan Vallay	12840 Pony Express Road	12840 Pony Express Road	Oraper	5	84020	Thomas Petroleum, No. Saft Lake, UT	Distributor's truck
Rocky Mountain Power	Park CRV	6280 Silver Creek Road	P.O. Box 1508	Park City	5	84060	Thomas Petroleum, No. Saft Lake, UT	Distributor's truck
Rocky Mountain Power	Santaquin	355 West 200 North	355 West 200 North	Santaquin	5	84655	Thomas Petroleum, Cedar City UT	Distributor's truck
Rocky Mountain Power	Moab	320 North 1st West	320 North 1st West	Moab	5	84532	Thomas Petroleum, Petra UT	Distributor's truck
Rocky Mountain Power	Richfield Hub	710 North Math	710 North Waln	Richfield	5	84701	Thomas Petroleum, No. Sait Lake, UT	Distributor's truck
Energy West Mining Co.	Deer Creek Mine	3 Miles N. of Huntington Piant		Huntington	5	84528	Thomas Petroleum, Price UT	Distributor's truck
Energy West Mining Co.	Coal Prep Plant	3.5 Miles 5 of Castle Date		Castle Date	5	84523	Thomas Petrolsum, Price UT	Distributor's truck
Britiger Coal Co.	Bridger Mins	9.5 Miles NE of Point of Racks	P.D. Rox 68	Point of Rocks	×	82942	Homax, Rock Springs WV	Distributor's truck

Appendix 4 - Company Locations NV Energy

NV ENERGY

Company Facilities

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

	(D) Oll Speec	Generic Listicari Specification	Curida i m es	Concepthillips Product Name	Visitalia Visitaliy (0 40°C (ARTIS 0416) (c80)	Nimmetic Viscosity () 100"O (ASTIS D465) (c30)	Viccosity Index	Pour Point 'T' (ABTM DBT)	Flesh Point 'P (PSTM DRZ)	Elemental	Color (ASTM DW00)	Heutrafization Humber (SEO 6819) mg KONg	NPVOT (ARTM Ox222) (micutes)	Water Separability Test (ASTE D1691) Interdent Stateston)	Fourning Turnismey (ASTM DE32 Bed & (b5-109)	Custra Test (0190)	Rust Test (Dans4)	Селетиль
	P-100	CR, Mineral, Engine, SAE 15W40 API CJ-4,CJ-4 PLUS, CJ-4, CJ-4, SM	Current API specification as of January 2012.	Final 8 upreme EC 15W-40	114	152	137	-36F	441F(COG)	Calcium 2100 - 2580 PPM, Phaspherus 970 - 1180 PPM, Silven 8 PPM, Sulfur 2050 PPM, Zine 1090 - 1390 PPM	4.0	8.4byASTM D2878	····					***************************************
	P-182	CE, Mineral, Engine, SAE 15N/40 API CJ-4, CJ-4, CJ-4, SM	Current API specific silon as of January 2012,	Fiset Supreme EC 10VV-30	50	12	146	-48	441 (CCC)	Berlum 10 - 30 PP M, Celchem 2100 - 2680 PPM, Phospherus 970 - 1160 PPM, Suithr 3650 PPM, Zirco 1090 - 1390 PPM, Silicon 8 PPM	4.0							
Ī	P-103	OR, Mineral, Engine, SAE 15W40 API CI-4 PLUS, CI-4, CH-4, SL	Current APT specific ation as of Jenuary 2012.	HC Power D 15W-40	115	15.2	138	4 0	437 (COC)	Genon 3 PPM, Calckum 3170 - 4050 PPM, Phosphorus 1180 - 1440 PPM, Silicon 8 PPM, Sulfur 4800 PPM, Zinc 1310 - 1670 PPM								
	P-INE	CN, Mineral, Engins, SAE 10W40, API SN / Does not meet ILSAC GF-5	Current API specification se of January 2012.	Kenshal GT-1 HP Motor Off 10W-40	108	15,4	190	€33F	446F (COC)	Catcium 2200 - 2810 PPM, Molybderum 90 PPM, Presignerum 700 -800 PPM, Buildy 3end PPM, Zimc 770 - 630 PPM, Yitantum 64 - 117 PPM	3.0	8.6.ASTM Dat/96						
- S	P-108	Of.Fullsynthetic, Engine, SAE \$7/30.APISN/ ILSAC GF-5	Current API apautication as of Jacoury 2012.	Kendali GT-1 Full Symbolic Maker OR SAN-30	8 3	12.1	167	<-49	455(COC)	Calcium 2200 - 2810 PPM, Modylden um 80 PPM, Phosphona 700 - 800 PPM, Suifur 3600 PPM, 22no 770 - 860 PPM, Tüterikm 84 - 117 FPM	3,0							
Engine	P-108	Off. Mineral or Symboths or Symboths Blond, Engine, SA E SW20, A PLS N / ILSAC GF-S	Current API specification es af January 2012,	Super All Semon Symblered 5W-20	A	8,5	151	c-44	424 (CCC)	Rerium 10 - 30 PPM, Calcium 1930 - 2460 PPM, Narybdarum 60 PPM, Phospharus 700 - 800 PPM, Sulfur 3800 PPM, Zho 770 - 880 PPM	3.5							
u	P-107	Of , Mineral or Synthetic or Synthetic Blend, Engine, SA E5W30 , A PISM / IL SAC GF-5	Currer® API specification as of Jenuary 2012.	Super All Season Syntherid 57/4-30	97	10.8	162	c-44	421 (COC)	Bertum 10 - 30 PPM, Calcium 1930 - 2450 PPM, Melybrierum 80 PPM, Phospherum 700 - 900 PPM, Buffur 2600 PPM, Zine 770 - 860 PPM	3.0							
	P-108	OII, Mineral or Synthetic or Synthetic Bland, Engine, SAE 10N/20, APIS N/ILSAC GI-S	Current API specification as of .lanuary 2012.	Super All Semeon Symblend 10W-30	58	10,4	152	c44F	444F(COC)	Betium 10 - 30 PPM, Catalum 1930- 2490 PPM, Molybdenum 80 PPM, Phosphorus 700 -800 PPM, Bulfur 3800 PPM, Zhrz 770 - 630 PPM	3.5	7.8ASTM C2896						
	P-109	Oll, Mineral, Hydraulio, SAE 10, Minimum VI 105.	N of for use in enginee, hydraulical re-minature only.	TSX Hassy Dufy Motor Oil 1090	48	7,5	122	-38F	424F(COC)	Celcium 2100 - 2680 PPM, Phosphorus 830 -1010 PPM, Sulfur 3600 PPM, Zir 5385 - 830 PPM	L2.5	7.5 by AST M C2895						
	P-110	Oil, Mineral, Engine, SAE 30 API CF, CF-2, CD	Current API specification as of Jenuary 2012.	TSX Heavy Duty Mater Of SD	£9	11	109	-27F	464F(COC)	Calctum 2250 - 2910 PPM, Phosphorus 800 - 1100 PPM, Subtur 3800 PPM, Zhic 1000 - 1260 PPM	4.0	8.1					-	
	P-111	Oil, Mineral, Engine, SAE 30 API CF, GF-2, CD	Comments used in Defrict Dissel 2-cycle dissel regimes	TSX Herry Duty Motor C6 40	149	15.4	108	-27F	484F(COC)	Calclum 2280 - 2910 PPM, Phosphorus 900 - 1100 PPM, Sultur 3800 PPM, Zinc 1000 - 1280 PPM	4.0	8,1 by ASTM CI2898						-
1.5	P-201	OS, Mineral, Hydrausic & General Purpose, Antiwer, R&O, ISO VG 22, Minimum VI 135, Wide Tampersture Range, Pour Point < -45 F	Low lemps who applications,	Megaficov AW HVI Hydrautic Of 22	20.8	4.6	144	-68F	379F (COC)	Calcium SCPPM, Phospherus 340PPM, Suitur SCOPPM, Zinc 385 - 430 PPM	0,5		>290	15 mirados is pess	pees	1a	pess	
	P-302	Oli, Mineral, Hydrausic & General Purpose, Antiweer, R&O. (SO VG 32, Minimum VI 125, Wide Temperature Range Pour Point < 45 F	Low temperature applications.	Megatlow AW HVI Hydraulic Oil 32	32.7	8,4	145	-49F	388F(COC)	Calcium 90 PPM, Phosphonas 340 PPM, Sultur 600 PPM, Zinc 385 - 430 PPM	0,5		>250	16 miratos to pse	pera	14	pesa	
	p.303	Oli, Mineral, Hydraulic & General Purposa, Ardwear, R&O, ISO VG 46, Minimum VI 135, Wide Yensvenstoon Ramus, Pour Paint < 46 f	Law temperature applications.	Megatiow AW HVI Hydrausio Of 48	46	7.7	135	-49F	416F (COC)	Calcturn SCPPM, Phosphorus 340PPM, Bultur 600PPM, Zinc 365 - 430 PPM	0.5		>290	16 mbs.tos to pass	pess	18	base	
8	P-204	DE Mineral Hydraulio & General Purpose, Andweig R&D, ISDV3 150, Rentman VI 95	Antimeer sppic ations, hydraulic pumps and motors.	MegatlowAW Hydraul is CR 150	149	14,7	69	-6	525(CDC)	Celolum 60PPM, Phospherus 340PPM, Suffur 700PPM, Zine 385 - 490 PPM	3		>250	10 minutes to pass	Pare	ts.	Pate	
Suife	P-205	Oil Mineral Hydraulio & Germal Purpher, Anthrew, R&O, ISO VG 100, Winturn VI 95	Antimeter expécutiones, hydraulio parrepre and motions.	Megatiow AVI Hydraulic Oil 103	100	11	-1:3	-267	463F (0000)	Calcium SOPPM, Phospharus 340PPM, Sulkir 800PPM, Zinc 385 - 430 PPM	0.5		>275	10 minutes to page	peas	1a	pees	
Hydr	P-208,	OE Mineral Hydraulic & General Purpose, Anthwist, R&O, ISO VGC3, Minimum V195	Antivess applications, hydrautic purposed and modern.	Megaflow AW Hydraulic Oil 63	ы	6,7	99	-27F	490F (CCC)	Calchim 50 PPM, Phengherus 340 PPM, Sulfur 600 PPM, Zinc 395 - 430 PPM	0.5		>270	10 minutes to	pees	1a	pose	
	P-207	CR. Mineral, Hydraudie & General Purpose. Arthreer, RBO, BO VØ 45, Writmen VI 95	Anti-was applications, hydraulic pumps and motors.	Megaflow AW Hydrause Oil 46	45	6.8	100	-36	441 (COC)	Celebra StiPPM, Presipheria 340 PPM, Sulfur 600 PPM, Zine 365 - 430 PPM	0.5		×270	10 mirutes to	pens	18	pees	
	P-208	Oli, Microsof, Hydrausic & General Purposes, Anthroau, R&O, 190 VG \$2, Minimum V185	Antiweer applications, hydrautic pumps and molers.	Magaflow AW HydraxSc Oil 32	31	5,4	104	-96	421 (COC)	Calcium 50 PPM, Phesphorus 340 PPM, Suttur 600 PPM, Zine 385 - 430 PPM	0.5		>270	10 minutes to	pess	10.	pese	
	P-209	Off, Mineral, Hydrosille & General Purpose, Antiweer, R&O, ISO VG 22, Minimum VI BS	Antheres applications, hydrautic pumps and motors,	Megatlow AW Hydrasite Oil 22	22	4.3	104	-40	365 (COC)	Coxism 50 PPM, Phosphorus 340 PPM, Bulkur 800 PPM, Zine 385 - 430 PPM	0.5		>270	10 minutes to page	bess	18	pass	
	P-800	Olf, Mineral, Drive Treath & Transmission, SAE 10. Affect C-4, Cetapider TO-4, Euclid equipment. Konnstaueruspravet, Victors (Eston) M-2850-5, ZFTE-MILOSC for tarque converter transmissione	िकाराम्बाद्धे ध्वरतं का व त्रिकंत्वादिः वर्ते का साम्ब्रेडिंग वर्त्वभूमान्तरं	Powerd the 1000	43	6,6	105	-38F	415F(QQQ)	Celokum 2180 - 2060 PPM, Phosphorus 630 - 1010 PPM, Zinc 890 - 1210 PPM	2.0	7.6ASTM D2898						

	Rpec E)	Generic Lubricari Specification	Guidelines	ConscoPhilips Product Name	Minematic Viscosity @ 40°C (ASTM D448) (c61)	Kinematie Viscosity (2 180°C (ASTRI D445) (c60)	Viscosity Index	Pour Point TF (ASTM DEC)	Flesh point 'F (Asi'nt 192)	Elementol	Color (ASTM D1800)	Netricultation Number (ISO 6619) and FORSe	APVOY (ARTM D2272) (minutes)	Water Separability Task (ASTM D1401) ord-ord-ord	Fourting Tendency (ASTM DE12 Seq 8 (mi-ral)	Ou Strip Tost (0130)	Rust Teet (D065A)	Comments
	k-301	OR, Mineral, Gear, Orive Train and Transmission, SAE 30, Albern C-4, Caterplian TO-4, Euclid equipment, Komateu equipment, Victoria (Eater) M-2550-5, 2F TE-MIL 03C for torque converter Ingramments	Commonly used so a transmission of in senth moving and heavy equipment	Powersinks 30	96	11,1	100	-27F	451F (COC)	Calcium 2160 - 2660 PPM, Phosphorus E30 - 1010 PPM, Zinc 390 - 1210 PPM	2.0	7,6 by ASTM 02896		(minutes)				-
,	\302	Oil. Mineral, Geer, Drive Train and Transmission, SAE 50, Ceterplay TO-4, Euclid equipment, Komstau equipment, Victora (Euton) M-2050-3	Commonly used as a finel drive of in earth coving and heavy equipment	Powerdrive 50	227	19.1	94	-18F	469F (CDC)	Calcium 2190 - 2660 PPM, Phosphorus 550 -1010 PPM, Zinc 990 - 1210 PPM	4.0	7.6 by ASTM 02896						
	1.3/13	OH, Wherel, Milipurpose, Transcriptor & Hydrolfe, Tractor Final Drive – Son OEM Specification Requirements	Contractly used in all-lighway equipment requiring arm lightness for the transmission, final drive, wat brakes and lightness overterns.	Powerbran Fluid	61	9.3	146	-6SF	410F(CCC)	Boron 110 PPM, Caleton 3240 - 4140 PPM, Methodorana 80 PPM, Phosphorus 1070 - 1310 PPM, Silcon 10 PPM, Sultur 3280 PPM, Zino 1350 - 1720 PPM	3,5	9,6 ASTM D2896	NA					
	-304	Of Synthetic, SAE SO, Transmission, Henry Duty Manual, API Service GL-1, MT-1	Correspondy use in heavy-duty mersus transmissione in trucks operating in extreme temperatures and/or extended service interpretations.	Tribing yrithelic Transcal 50	132	17.5	146	-49	430 (COC)	Boron 250 PPM, Celoken 40 PPM, Phosphorus 1050 -1350 PPM	Amber, visual							
	\308	Filid, Automatic Teamembalon, Memon & Degron III	Commonly use in GM and Ford suformatic transmissions in 2005 and earlier model-year yorkoles.	SuperATF	32.1	,	188	*-40F	414F (COC)	Boron 69 - 121 PPM, Calcium 62 - 79 PPM, Phosphonia 205 - 254 PPM, Sultur 1064 - 1596 PPM	Red Visual				. 1			
	P-900	FMdd, Automatic Transmission, Type F, Ford ESW-M2C233-F	Commonly used in passenger sens and light trucks merutactured by Ford prior to 1977, and in many 1977-1931 models, also serue hydrostatic drive systems	ATF Type F	43	7.6	180	<-40	410 (COC)	Boron 100 PPM, Zinc 430 - 530 PPM, Phosphorus 400 -500 PPM, Suitur 2100 PPM	Red Visual							
	P467	Fluid, Automatic Trunsmission, Morcon V, Allison C4	Ford automatic transmissions where a MERCON V field or earlier-generation MERCON built is specified and for many GM 2005 and earlier vehicle automatic transmissions	Marcon V ATF	34	7.5	300	<-49	385(COC)	Boron 83 - 110 PPM, Prospherus 176 - 238 PPM, Silcon 10 PPM, Sultur 6:34 - 1222 PPM	Red Visual	:						
•		Oll, Mineral, Hydraulic & General Purpose, Hon- zine Anthees, R&O, I&O VG 32, Minimum VI 85	Contribugal eir compressors, phosisting systems (squiring light entheen (non-zino)	M-Ripuspose R&O 32	32.5	5.4	101	-40	460(COC)	Phusphorus 25 PPM	L0.5		750	20 minutes to pairs	Pass	10	Pess	
		Oll, Mineral, Hydraulic & General Purprise, Non- zinc Antiwear, R&O, ISO VG 46, Minimum VI 95	Centrifugel air compressors, circulating systems requiring light anthesar (non-xins)	Митрирове Н&О 46	45	8.7	102	-40	480 (COC)	Phosphorus 25 PPM	L0.5		750	20 minutes to page	Pass	18	Pers	
		(XI, Mineral, Hydraulie & General Purpose, Non- sine Anthems, R&O, ISO VG EJ, Minimum VI 95	Contribugal air compressions, circulating systems requiring light antivess (non-zinc)	Multipurpose R 6O 58	69.2	8.6	100	-28	489 (COC)	Phosphorus 25 FFM	L0.5	1.	750	20 minutes to pass	Pesa	18	Pass	
		136, Mineral, Hydraulic & General Purpore, Non- dna Arkheer, R&O, J&O VG 100, Minimum VI S6	Lightly loaded goetbases requiring non-EP of, shoulding systems requiring light anthrea (non-zine)	Multipurpose R&O 100	101	11.3	97	-29F	514F (COC)	Phospherus 25 PPM	1,0,6		700	20 minutes to page	pass .	1.	poes .	
		Off, Mineral, Hydraulie & General Purpose, Non- drie Antiweer, non-EP, R&O, ISO VG 150, Winknum VI 95	Lightly loaded grantones requiring non-EP of, circulating systems requiring light authors (non-zins)	Multipurpose R&O 150	158	15.5	97	ı 1F	531F(COC)	Phosphorus 25 PPM	2,6		700	20 minutes to pase	pere	18	paqu	
		Of, Mitserel, Hydraulic & General Purpose, Non- zhio Antreser, Non-3 P, N&O, ISO VG 220, Minimum VI 95	Lightly loaded gearbosns requiring non-EP oil, circulating systems requiring light antiwes (non-zino)	Multipurpose R&O 220	220	18,9	97	er.	E46F(COC)	Phosphorus 25 PPM	3.5		700	20 minutes to	pess	1e	parka	
		CR, Minerel, Hydreutic & General Purpade, Hon- dine Antiwese, non-EP, 7,80, ISO VG 320, Minimum VI 95	Lightly loaded gear boxes requiring non-EP oil, circusting eyeterns requiring Sgrit antivess (non-size)	Multipuspona R&O 320	318	23,9	95	5F	579F (COC)	Phosphorus 25 PPM	4.5		700	20 minutes to page	page	1a	pasa	
		Off, Mitural, Turbine, Steam, R&O, ISO VG 96, Minimum VI 100	Commonly used in lightly to moderately loaded plain and rolling-element bearings	Turbine Oil 68	68	8.8	100	-17F	463F (COC)	No me's se additives	0,5		>1200	20 minutes to pass	pens	14	pass	
		Oli, Mineral, Tuchim, Steam, R&O, ISO VG 45, Minimum VI 100	industrial attern furbines, many lightly loaded plain and rolling- element bearings, such as those in electric motors, pumps and blowers	Turbine Of 45	45	6,7	102	-217	450F(COC)	No mstašt zeidžīvas	0,5		>1200	20 minutes to poss	pas	14	poer	
		Off, Mineral, Turbine, Steem, R&O, ISO VG 32, Minimum VI 100, minimum RPVOT 600 hrs., minimum TOST 12,000 hrs.	Inchestrial steam turbines, many ligitily loaded plats and rolling- stement bearings, such to those in electric motors, pumps and blowers	Turbine O6 32	31.8	5,4	102	-35F	428F(COC)	No metalic additives	0.5		>1200	20 minutes to page	paen	10		

Oil S	900	Gerinalo Lubricant #pecification	Guidolinea	CornecoPhilipps Product Name	Kinematic Veccety @ 40°C (ASTM D465) (citi)	Personation Viscousity (4 160°C (ASTM DASS) (clic)	Viscouity Index	Pour Point "F (A&TM D87)	Place point F (ANTIN Cool)		Color (ARTM D1600)	Hestodization Hamber (SO 6010) mg KOH/g	ROPVOT (ASTRI (DAZZZ) (Intration)	Water Separability Tem (ASTM D1401) attended Onincipal	Foaming Tendency (ASTM DF32 Sup () (rel-ml)	Cu Strip Test (D150)	Plust Yest (Det SA)	Constants
		Off, Mirerel, Turbine, Steem, R&O, ISO VO 32, Minimum VI 100, mimimum RPVOT 1700 hrs., Information TOST 25,000 hrs., meets ISO Mathinssa 18/19/13.	Long its steam and gas surbine applications	Olumene Chee Turbine Oil 32	31.7	5.4	103	-40	428 (CDC)	No proteste add tives	0.5		>1,700	20 minutes to pses	pass	18	pesa	
		DS, Mineral, Turbine, Sleam, R&O, ISO V3 68, Minimum VI 100, minimum 8PVOT 1700 hrs., minimum TOST 25,000 hrs., meete ISO Hearlineau 18/18/13,	Long life steam and ges turbine applications	Observored Classes Turtains Oil 68	88	8.6	102	-32	469 (COC)	Ho matelic scissions	0.5		>1,7 00	20 minutes to page	7400	10	bass	
		DE, Synthetic PAO, Bearing & Gear, ADMA 7, USO VG 460, Minimum VI 150	Light is medium loaded grathores requiring ron-EP of	Syncon R&O 480	480	37.2	123	-20F	470F (COC)	Phosphorus 1500 - 2100 FPM	L1.0		850		pass	15	pass	
		OR, Syntholik PAO, Browling & Geer, Non-EP AGMA S, ISO VG 220	Light to maken loaded gestlesses requiring non-EP off	S yrcan R& 0220	220	22.6	127	-37F	475F (COC)	Prospinorus 1600 - 2100 PPM	L1.0		850		pesa	16	pees	
		Ož, Synthetic PAO, Bearing & Gren, Non-EP, ISO VG 150	Lightly loaded gearboxes requiring non-EP oil, shoulating systems.	Syncon R&O 150	150	17.5	128	-40F	475F (COC)	Phosphorus 380 - 570 PPM	£1,0		850		pess	\$b	bs as	
		38, Synthetic PAO, Bearing & Gear, Non-EP, 28O, ISO VG 100, Winkmam VI 130	Lightly loaded gent boxes requiring non-EP off, simulating systems.	Syrveon R&O 100	83	12,5	130	-387	527F (COC)	Phosphorus 280 - 570 PPM	10.5		2400	10 mirates to pass		18	pass	,
		Olf, Synthetic PAO, Air Compressor, ISO VG 69, Winimum VI 140	Restary air compressors, elect to restor bearings, chouseling systems.	Syncon RBO Li	68	8,6	13,2	-38F	527F (COC)	Phosphorus 380 - 570 PPM	1.0,5		2,400	10 minutes to page	busa	18	pens	
		Oil, Synthetic PAO, Air Compressor, ISO VII 48	Robary air compressors, electric motor bearings, electrishing systems.	Syrcon R&O 48	44	7.4	130	-38#	SIBF (COC)	Phosphorus 390 - 570 PPM	1,0,5		2400	10 minutes to pass	bees	18	pass	
		38, Synthetic PAO, Air Compressor, ISO VO 32	Rotary air compressors, electric motor braings, circulating systems.	Syrroon R&O 33	32	5.8	184	-80#	473F (COC)	Phosphorus 360 - 570 PPM	10.5		2400	10 mirautos to pass	Page 8	12	bsss	
		Oil, Synthetic polyol eater, ISO 22/32, VI 130, Industrial Gaz Turbine Lubricant	For aero-derfestive yas turbines,	Synstretrial Turbine Oil 22/32	25.5	5.1	131	-78	511 (COC)	Phosphorus 2100 PPM, Statum 2 PPM	L 4.0					12	pens	
		Oll, Synthetic (PAG) Polystylene Glycol, Air Compressor, Robny Serser, ISO VG 32/46, Alinkmum VI 150	Drop in replacement for OSM- branded polyglycol-based compressor ofs.	Syndantial Rotary Compressor Oil 32/48	35.9	7.3	158	-71F	484F (COC)	Phosphorus 25 PPM,	0.5		>1800	10 minutes to page	pace	1=	pres	
p.	601	Of, Miserel, Geer, EP, AGNA 2EP, ISO VG 63, Miserum VI 96	Commonly used in lightly loaded and/or high speed gearboxes requiring EP oil Commonly used in lightly to	Extre Duty Geer Ot 68	88	8,7	89	-27F	455F (COC)	Phosphorus 220 - 400 PPM, Builur 5900 PPM,	3,0					1a		
P.	602	Of, Mineral, Gost, EP, AGMA 4EP, ISO VG 150, Mineroum VI 95	moderately keeded or great burne sequirity EP of Commonly used in moderately	Extra Duty Gent Oil 150	150	14,4	97	-27F	489F (COC)	Phosphorus 226 - 400 PPM, Suitur 5900 PPM,	4.0				<u> </u>	10	<u> </u>	
P.	503	OI, Mineral, Geer, EP, AGMA SEP, 180 VS VG 220, Minimum VI 95	loaded generations requiring EP sil Commonly used in heavily	Extra Duty Gear Oil 220	220	18,4	83	-17F	486F (DOC)	Phosphorus 220 - 400 PP%, Sulfur 5600 PPM,	4.5				ļ	12	ļ	***************************************
P	504	Ol, Mineral, Geer, EP, AGMA BEP, ISO VG 320	inacind and/or slow speed gas/battes requiring EP oil	Extra Duty Go # Of 320	320	23.7	96	OF.	4E3F (DOC)	Phosphorus 220 - 400 PPM, Sulfur S300 PPM	5.0					1a	ļ	
	805	CR, Mineret, Gestr, EP, AGMA 7EP, ISO VG 460, Minimum VI 95	Constrainly used in very in rely insched and/or slow spend gestherms requiring EP of	Extra Duty Gear Oil 450	460	30.5	98	OF	489F (COC)	Phosphorus 230 - 405 PPM, Suifur 5300 PPM	5,5					18		
	cun	CIL, Minerel, Grar, EP, AGMA SEP, ISO VG 680, Minimum VI 95	gentheres requiring EP oil	Extra Duty Gear Of 6:30	620	32.2	70	27F	>513 E(COC)	Phosphorus 220 - 400 PFM, Suitur 5300 PPM,	8.0					16		
P	50 7	Oil, Mineral, Geer, EP, SAE 80W-90, API GL-5	Community used in in passenger car and truck adea with hypotit great sets.	Universel Geer Lube SOW-90	140	14.3	99	-22F	414F (COC)	Phosphonus 250 -350 PPM, Guillus 13000 -18004 PPM	3.0							
\$	508	OR, Synthetic PAO, Gear, EP, SAE 75WED, API GL-5	Commonly used in in passenger car and truck axies with hypoid gear sate in extreme brimperatures or lander severa driving conditions	Triton Synshelic Groat Lubs 75W-80	122	16.6	147	-61F	3f.0F (COC)	Phos. phorus. 1200 -1300 PPM	0.8							
3 p.,	50A	OE, Synthesic PAO, Glear, EP, SAE 80W140, API GL-5	Convening used in in passingsi est and truck ades with hypoid past sate in actions temperatures or under severa driving possizions.	Triton Synthetic Gene Lobe BOW-140	284	30.6	146	-40	392 (COC)	Phosphorus 1000 PPM	8.0							
F	610	ON, Synthetic PAO, Gene, EP, AGMA AEP, ISO VG 150	Commonly used in lightly to moderately loaded or gearbones operating in temperature extremes and requiring EP of	Syncon EP Plus Gear Of 150	151	21.7	171	-49F	484F (000)	Phosphonus 263 - 432 PPM, Sulfur 5600 - 8400 PPM, Zine 5 PPM	1				james.	16	tares	

Cell Speec RD	Generio Librious Specification	Outdefree	ConocoFniBps Product Name	Kinamatic Visconity @ 40°C (ASTM D445) (c86)	Kinematic Viewsky & 100°C (ARTM D445) (e84)	Visconity Index	Pour Point T (AGTM DB2)	Planti point of (ASTM DES)	Clemanidal	Color (ASTM D4800)	Heatralization Humber \$500 8610) mg 8001tg	RPVOT (ASTM (22279) (minutes)	Wotet Separability That (PATM D1481) mi-mi-mi (mi-mytes)	Perming Terriency (ASTH Danz Saq 5) (mi-mi)	Cu Strip Test (2190)	Rust Test (DE: SA)	Commonte
P-811	OI, Synthetic PAO, Geer, EP, AGMA SEP, ISO VG 220	Constantly used in maderately leaded geopoics operating in lemperature extreme? and requiring EP oil	Syntan EP Plus Gear Of 220	218	29.0	173	-0 9F	454F (CCC)	Phosphorus 268 - 432 PPM, Sulfur 5600 - 8400 PPM, Zine 5 PPM	1.0				base	1Ь	pass	
P-812	Of, Synthetic PAO, EP, AGMA SEP, ISO VG 320	Commenty used in heavily leaded and/or slow speed georboxes operating in temperature extremes and requiring EP of	Syrloon EP Plus Gear Of 320	319	29.0	179	447	484F (CCC)	Phosphorus 228 - 432 PPM, Sulfui 6600 - 6400 PPM, Zhe 5 PPM	1.0				pess	1b	pres	
P-813	Of, Synthetic PAO, Geer, EP, AGMA 7EP, ISO VG 460	Commonly used in very heavily loaded and/or slave speed gentiones operating in temperature extremes and requiring EP of	Syncon EP Plus Gaer OS 450	463	48.9	188	-38F	484F (COC)	Phospherus 28:3 - 482 PPM, Suffur 5800 - 6400 PPM, Zine 5 PPM	1.0				pen s	1b	pasa	
P-514	OI, Synthetic PAO, Gear, EP, AGMA 7EP, ISO VG E30	Correnorly used in very heavily lossied entitor slow speed gestboxes operating in temperature extremes and requiring EP of	Syncon EP Plus Geer Of 630	685	63.3	182	-33F	484F (COC)	Phosphorus 203 - 432 PPM, Sulfur 9900 - 8400 PPM, Zino 5 PPM	1.0				pens	16	paze	
740	Grazes, Mineral Oil Base, Minimum ISO VG 3200 (with Polymer), Lithium Scep or Lithium Complex Thiologies, Coupling Grease, EP, R&O, NLGI 0/1	For medium and High speed couplings.	Coupling Gresses	>3200 with polymer	142		not applicable			Oark Amber Visual	netapplicable	not applicable	ान्द्र का plic able	notapplicable		pass ASTM D1743	
-601	Gresse, Mineral Of Base, Minimum ISO VG 160, Lithum 12-hydrosystearate Thickener. Multipurpose, EP, R&O, NLGI 000	Commonly used in graticace where of lesisage is a problem	Dynatio t-8P #000 Gresse	195	18,5	80	not applicable			Amber Visuel	not applicable	not applicatela	not applicable	not applicable		pets ASTM D1743	
2,307	Gresse, Mineral Oli Base, Mininism ISO VG 160, Mininum VI 80, Libikum 12-Hydroxyetsessis Thickness, Multipurpose, EP, R&O, NLGI 2	Commonly used in plain and roang-element bearings and other industrial equipment where operating temperature and loads are maderate	Dynažite L-EP #2 Gree/te	195	16.5	80	cot applicable			Amber Visual	nut applicable	not applicable	not applicable	not applicable		ASTM O1743	
a 40a	Greese, Mineral Oli Base, Minimum ISO VG 573 (with polymer), Minimum VI 80, Lithium Complex Thickener, Multipurpose, EP, R&D, NLGI 2, GC- LB cartified	Commonly used in heavily- tracked plain and rolling-element hearings operating at moderate to high temperatures	Dynasile HT #2 Greates	625	40	104	not appäcable			Red Visual	not applicable	not applicable	not applicable	not applicable		P898 ASTM D1743	
-4.4	Grasse, Mineral OE Base, Minimum ISO VG 190, Minimum VI 95, Lithham 72-Hydrocystosrafa Thickney, Mulipurpose, EP, R&O, NLGI 5	Commonly used in moderately loaded plain and rolling-elemen bearings in instructive equipment	Super-STA #2 Gresses	190	17	95	not applicable			Amber Visual	not applicable	not applicable	not experientle	nct explicable		ASTM D1743	
	Greese, Mirreral Of Beese, Minimum ISO VG 190, Minimum VR BS, Lithbum 12-hydrocysbearda Thiokener, Mullipurpose, EP, R&O, 1% redybderum disulfide, NLGI 2	Commonly used in moderately loaded plain and rolling-elemen bearings in industrial equipment subjected to heavy or shock loading	t Super-STA M#2 Greene	190	17	95	než sppšesbje	**************************************		Grey-Stack Visual	not applicable	not applicable	not experable	net appärable		pass ASTM D1743	
Aut	Gree-se, Mineral Of Seese, Minimum ISO VG 400, Minimum VI BD, Lithburn Complex Thickener, Multipurpose, EP, R&O, NLGI 2	Commonly used in heavily loaded, slow- to medium-speed boarings	Tacras HD	400	28	55	nut applicable			Red Visual	not applicable	not applicable	nut epplicable	not applicable		PE-SI ASTM D1743	
e ₄₅ 7	Greens, Mineral DE Bass, Minimum 190 VG 190, Calolum Sulforate Thickney, High Temperature Greens, EP, R&O, NLOI 2, GC-LB certified	Convincity used in Industrial and automotive equipment operating in wet or corresive environments	Omréguard #2 Grassa	218	19,8	96	not applicable			TanVisual	noi applicable	not applicable	nut applicable	not applicable		ASTM D1743	
9.4%	Greese, Miretal Oli Bass, Minimum ISO VG 100, Minimum VI 85, Polyunce Thickener, High Temparature Greese (Range -20 to 400F), Ball & Roller Bearing Greese, Non-EP, R&O, NLSI 2	Compatibility chack required or any replacement grasse.	Polytika #2 greens	110	12.1	98	not applicable			Red Victori	not applicable	not applicable	not applicable	txt applicable		ASTM D1743	
9111	Greese, Mineral OE Basie, Minerum ISO VG 100, Minerum VI 70, Polyurus Thickense, EP, R&O, NLGI 2, GC-LB certified	Compatibility chack required or any replacement greace.	Polytoc EP#2 grease	129	11.8	71	not applicable			Green Visual	not applicable	not applicable	not applicable	not applicable		ASTM D1743	
841	Gresse, Synthetic Oil Base, PAO, Minimum ISO VG 400, Minimum VI 140, Lithium Complex Thioleane, Low temperature gresse (Range -50 to 279F) EP. R&O, NLGI # 00	Commonly uses in industrial georboxes operating at high temperatures where oil feelings is a problem	Titlon ELL Grease	420	44	155	moi appăcatiin			Emeral Green Visual	not applicable	noi applicable	not suplicable	noi applicable		pass ASTM D1743	
	Gresse, Byrdhetio Off Beee, PAO, Minimum IBO VG 190, Minimum VI 130, EP, RBO, Wide Temperature Range, Lithkum Complex Thickener, NLOI 2	Commonly used in medium- spend bearings in industrial equipment operating in extreme temperatures or over a wide temperature range	Triton 220 #2 Grosse	226	24.8	140	not applicable			Purple Visual	not applicable	not applicable	поі аррбожін	ung ekologozopie		pres ASTM D1743	

G	Od Span IO	Generic Lubricans Specification	Guidellage	Conocoffilispa Product Name	Crematic Viscosity (8 40°C (ASTM Dids) (cst)	Kinsenstis Viscosity @ 100°C (ASTM D446) (c5t)	Vincosity Index	Pour Point 'F (ASTM DBT)	Flush point T (ASTM D02)	Electronical		Neutralization Number (800 8819) and FOHING	RIPVOT (ASTRI DOZZZZ) (mirentes)	Water Separability Test (ASTM D1401) mi-mi-mi (astrolos)	Posming Tundancy (ASTM DE12 Seq () (ml-ml)	Cu Strip Test (D190)	Rust Test (DISSA)	Constients
	P-612	Grusse, Synthetic OB Base, PAO, Minimum IBO VG 400, Minimum VI 130, EP, R&O, Wide Temperature Range, Lithlum Complex Thickener, NLGI 1.5	Commonly used for lubrication of few to medium appeal bearings in industrial and mobile equipment operating under howy loads and/or wet conditions	Tihbon 480 ah1.5 Giri≪ee	460	44.3	150	not applicable			Purple Vistal	not applicable	not applicable	not applicable	not applicable		Pess ASTM D1743	
	n#17	Greeta, Mineral Off and Asphelide Bass, Asphaltic VS 5000-10,000 BLISIGE 10F, Open Geer Lutchard, Relo, Authorer, Er — Specification Without Solveral but to contain Non-Chlorinated Evaporative Solvera, usable jow temp, range to 32F.	Primarily for the submission of open and semi-enclosed gears or for guides and silking surfaces with large clearances	Gest 8 NetJNC	4000-8000 with solvers	1000-2200 w/o xotvent	nut applicable	not applicable	>250F with solvent		Black visual	not applicable	net applicable	not applicable	nst applicable	46	page	
	ME14	Greeze, Mirural OS und Asphatic Beec, Asphatic VG 5000-10,000 BUS@210F; Open Gear Lubriture, Red, Artheese, EP — Beedfootlor; Without Schwart but to contain Non-Chlorinated Exeponative Schwart, weakle low lettp, nange to GF (whiter greed).	Primerity for the Aubrication of open and earth-enclosed goars or for guides and skiding surfaces with large cleanunces.	Goar Shield NCW	900-1800 with solvent	1000-2200 We solvent	not applicable	not appäcable	>186F w/51 molvers		Black visual	not applicable	not applicable	not esplicable	not applicable	46	Pesse	
ě		Oil, Solube, Chlorine-free, Emulaitying, 3-10%	Light-duty metalworking fluid for fight-to medium-duty cutting and grinding of ferrous and non- ferrous met sin	Solubin CR	34.2	5	51	-45	363 (PMCC)		3.5						best	
8	81.58H	Of, Distancy of Transformer, ANSVASTM 03487- OB Type II Inhibited Of, SE A13A3A2 (10CA), We singhouse Specification PDS 55822AG, Non- cerrosive by ASTM 012758	Electrical insulating of for use in all immersed iterationners, capacitors, tep changers and circuit bresters	Transformer Of	9.6	2,3	19	-58F	300F (COC)	No mebelo additives	to.5		260				pese	

MEC Off Specification Fram	iner Statum	Gereric Lubricant Specification	Falevant OEM Endorsettestis er Specifications	ASTR or ISO Space
MEC-001	Partiene	O3, Alfreret, Hydraudo, Fluid Power Transmission, Antiweer, Hluc, ISO VO 38, High Viscosoly Index, Minimum VI 133, Low Pour Point < -39 F	Decision (HF-0 HF-1 HF-2) Clinicires & Macchine P-43 (ISO 32) Eston Victores & 25.4-5 Eston Victores M-2950-S	ASTM 8156 - Hydrausia: CE Types - HV ISO 11166:2006 Femily H Hydrausia: Systems), Type HV ISO 11166:2006 Femily H Hydrausia: Systems), Type HV ISO 1408 - 1919 Calmusia: Systems - 15 minutes to pass ASTM 0140 - Calmusia: Systems - 16 minutes to pass ASTM 0140 - Calmusia: Systems - 16 minutes to pass ASTM 0140 - Copper Corrosion - 16 ASTM 0140 - Copper Corrosion - 16 ASTM 0140-ASSM - Cutation Stability - TOST -> 5000 hours to 2.0 mg KOHig ASTM 02771 - Cobistion Stability - TOST -> 250 minutes ASTM 02772 - Cobistion Stability - TOST -> 250 minutes ASTM 02774 - And Naminar - < 0.35 mg KOHig ASTM 02774 - Pur Port - < 0.35 mg KOHig ASTM 02774 - Pur Port - < 0.35 mg KOHig ASTM 02775 - Pur Port - < 0.35 mg KOHig ASTM 02775 - Pur Port - < 0.35 mg KOHig ASTM 02775 - Pur Port - < 0.35 mg KOHig ASTM 02775 - Pur Port - < 0.35 mg KOHig ASTM 02775 - Pur Port - < 0.35 mg KOHig Zino - < 450 ppm (# artitives/ solitives contains zino.)
NEC-002	Pathera	Oli, Affirental, Hydroudio, Fluid Power Trenambedon, Antieweer, RSO, ISO VG LS, Minimum VI 95, Pour Point < -20 F	Dezianon (HF-O HF-4 HF-2) Cimpirwati Macchine P-429 Esters Victores 1-289-S & M-28950-S Esters Victores M-299005	ASTIN 6158 - Hydraulic OB Type - HM (refreed miyered of with RSC) and AMV, 150 11155 2000 - Family H (Hydraulis Syssems), Type HM (ASTIN 6 2001 - Family H (Hydraulis Syssems), Type HM (ASTIN 6 2001 - Family Test - Family 1001
MECASS	retim	Grease, Mineral Ciè Bisse, ISG VG 230, Minimum VI BO, Lithèum Complet Trickener, Nutipuppress, EP, R&O, NLSI 2 ~ (Très appellication stupicated MEG-110, ex MEG-110 was consolidated into 110 males AEE-110 on open appellication.)	•	ASTM D 4950 Commission GC-LB for Automotive Service; Pass - ASTM D 1745 - Rust Preference; 1b - ASTM D 4046 - Copper Corresion; 7-95 hours - ASTM D 3557 - Wheel Bernis; Bar, 45% - ASTM D 1254 - Visite Methods; % lone @ 175°F, 45 ibs - ASTM D 2508 - Timber Olk Load, 8x; 250 kgf - ASTM D 2566 - Foor-Ball EP, Weld Load, kgf, 0-45 mm - ASTM D 2258 - Four-Ball Metay, mm;
MEC-004	Pelione	Oil, Mineral, General Purpose, Gast, AGMA 7, Non-EP, Artheest, N&O, ISO VG 460, Minimum VI 95	MA	<20 °F - D 5850 - Peur Point, °F, 16 - ASTM D 130 - Copper Common, Shoe & 217°F, Pass ASTM D 5858 - Riset Rest, 21100 hours - ASTM D 543 - Chécalion Statistique Nouve to 2.0 mg KOHýg sich stember, "30 missions - ASTM D 1401 - Emission 18st, résourise; 00 - ASTM D 522 - Foom Tool, Security 1811 - Emission 18st, résourise; 00 - ASTM D 522 - Foom Tool, Security 1811 - Emission 18st, résourise; 00 - ASTM D 522 - Foom Tool, Security 1811 - Emission 18st, résourise; 00 - ASTM D 522 - Foom Tool, Security 1811 - Emission 18st, résourise; 00 - ASTM D 522 - Foom Tool, Security 1811 - Emission 18st, résourise; 00 - ASTM D 522 - Foom Tool, Security 1811 - Emission 181
MEC-005	k cirra	OR, Mineral, Gear, EP, AGMA SEP, ISO VG 220, Mineram VF BS	Boach Resruth (Lieling); Soston Genz (Lieling); David Brown (Approval); Daridi (Lieling); FAG (Lieling); FAIL (Lieling); GAIL (S-Z): Leron AG (Approval); Nisher Mechine Company (Approval); Morgan Conservation (Lieling); Nation (Vivelation (Lieling); Reservot-Staphen (Approval); Vivelation (Approval); SS Shed (224	mil foem et 240 minutes Pass - ASTM D 8658 - Rust Test; 70 line - ASTM D 2782 - Timiten OK Load, 8ur, 45 ligt and 250 kig - ASTM D 2763 - Four-Bell SF Load West Index, kgf and Vield Peint, kgf
MEC-000 MEC-007	Petirea Petirea	Oi, Mineral, Cesr, EP, AGMA7EP, IBO V6 460 Minimum VI 95 Oil, Mineral, Oten, EP, AGMA8EP, ISO V6 (9)2, Minimum VI 95 Oil, Mineral, Turbine and General Pluppee, R&O, ISO V6 32, Minimum VI 100, Tilbered to meet 150 4406 clearfiness code 1875/12.	General Electric GEK 38143A; General Electric GEK 4650B; General Electric GEK 3250F;	
MEC-008	Active	Lubricerta that most MEC-036 will meet this apadification only if the the all is literal to meet MCC 4409 16715/12.	ISO 8003; Sweeneskitzensamenn Damag 800 027 98; Men Turbo SP 976784 D0000 EP3 Mock EO-KC & EO-K; Delroit Dissel Corp. Two	ASTM D 4904, Type I (non-EP); DRV 51515 Pert 1; ISO 6069;
MEC-008	helium	Oil, Minerell, Hydraudio, BAE 10W or ISO V3 S2, Minimus V1 105 (This apsection chaptions of MEC-1922, so MEC=192 was corrected and into it making MEC-1922 an open specification.)	Cycle; Celterpillor TC-2 APT CF; MS-4-72104 B, C, D, E, F; MH-4-48152E; Affect C-4, C-3; CAT TC-2; Vacious 20VC26	
MEC-010	betien.	OI, Minarel, Engine, SAE 30 API CF, CF-2, CD, CE, CD-II -80-SH-SJ (MEC-024 was consolidated into MEC-010.)	MEL-L-2104F7G: DOO CIDA-A-52306 Cummins NTC 400; Masik EO-K2 and EO-K; Alleon Type C-4 Fuld; Cetembler TO-2	
MEC-011	petion	OL Mineral, Engine, SAE 189440 API 03-4, CE.CD-E, CF-4, CF-2-0F, SH.8G-EO-8.J	MELL-2184F/G; MELL-46153; DOD C1DA-A-82306 Mack EO-K0 & EO-K; EO-L; Cummine NTO 400;	
MEC-012	Petinos	Fadd, Automatic Transmission, Marcon & Descun III Gresse, Minessi Of Bass, 180 VO 200, Minimum VI 60, Lifeban Compies	Celespine TO-2: Alleon Type C-4 Flaid DEXRON-III; MERCON	
MEC-013	Poline	Tricking or McSpurpose, EP, R&C, Figh Temperature, Minhum Droping Point &C F, NLO! Gresse, Mineral Of Base, ISO VG 180, Minimum VI 80, Listum Complex		
MEC-014	Adlive	Thickerer, Multipurpose, EP, R&C, NLG4 0 (Sweet an MEC-124, except for thickerer and AMI.)		
MEC-018	Petiero.	Gresse, Systemic Offices, PAO, ISO VS 220, Michiga VI 106, Aumeum Complex Trickmen, Food-Grede NGF H-1, -40 F to 320 F, EP 820, Mr G12		
MECOIS	hethra	OH, Mineral, Georg, ISO, VG 150, Mineral VI BS, EP, AGMA 45P, SAE 85 (was CA, Mineral, Georg, EP, AGMA 55P, SAE 85PA950) (MEC-078 was corrected into MEC-016.)	MILL-31050; API GL-4; Much GO-H; PG-2; Rectional C-78-0; AMGA 45P MIL-PRE-21056; API GL-5	
MEC-017	Pathon	DS, Mineral, Goer, EP, AOMA SEP, SAE 8047-140, API OL-8	MIL-PRE-2106E; API GLS, MT-1; Mack GO-J, GO-H, GO-G; Arvinantur G78-A; AMGA 5EP	
MEC-018	Polive	Oil Mineral, Air Compressor, Artheser, R&O, Demiselying, 180 VG 100, Minimum V: 75 (This specification is almost identical to MEC-CSE and they should be combined.)	Ada's Copeo, Deesser Fland, Subair, Compare requirements for retary sorters and valve compressents.	
MEC-019	Pattivo	Grasse, Kirsaral Ož Base, ISO VG 3330, Mirimum VI 130, Litrium Scap	Coupling Greense must meet the requirements of the bibreing instantly specifications: ANSIWIMA Counter(8001-	
WICCAU : P	P43280	or Littlem Cemplex Trickerer, Coupling Greens, NLCI CT Greens, Synthetic Of Base, PAC, SSC VC 460, Minimum VI 120, Littlem	BBT, Type CG-1 and CG-2 for medium- and high- appeal couplings.	
MEC-020	betwee	Comptex Trictanes, Attiquapose, Vide Temperature Renge, EP, R&C, NLG 1.6 to 2		
MEC-021	Padina	Tris appointment is a duplication of MEC-121. OR Byrehado PAO, Geor. EP, ASMA SEP, SAE YEMASO, API GL-5	MELL-20060-API GL-5; Mack GD-G/S and GO-HIS-	
WEC-922	Active	Cit. Mineral, Gear, EP, AGMA SEP, ISO VG 100, Minimum VI 95	GE; 1050EBC; Roolevell 078E and 0768 Performance and specifications must equal or	
WEC-025	Pethra Pethra	Oil. Syrfastic, PAO, Ar Compression, non-EP, ISO VG 63, Sénémum VI 140; MBC-050 use connectioned into MBC-051. Self-oil Self-oil Colored Not Self-oil Self-oil Colored Not Self-oil Self-oil Colored Not Self-oil Self-oil Self-oil Colored Not Self-oil Self-o	неготпыть вли вросоковых в ника ециан от единей Мобой SHC-628.	
MEC-608	petion	Cristrinated Evaporative Solvent Oil, Synthetic, PAO, Gear, AGNA 7, ISO VG 480, Minimum VI 150	Performence and approximations recoil assured or	
MEC-027	Petion	Oi, Minoral, Garneral Purposes, Ardinesar, FMC, ISO VG ZIO, Minimum VI SS	exceed Mobil 5HC-654. Denkoon NF-1 & HF-2A; T6-C; Victoria H368-5 & M-2860-S; Cincinnal Misorian P-58, P-50 & P-70	
MEC-CIB	Petiera	Gresse, Systimatic CB Bess, Silicons, ISO VG 316, Michieum VI (ENTER). Carbon Black Thickener, Besting, Extrans Pight Temperature Service, Service Temp Runge -18 to 266 C (0 to 502 F), RSO, NLGI 2	and the second s	
MEC-029	Petine	C3, Synthetic, Tri-Aryl Phosphata Ester, Hydraulic, Fire-Resistant, EHC - (See also MEC-146.)	GE Spec DSDA178-61	
MEC-090	Active	Dil Syrindia, PAO, Bearing & Gear, Non-EP, ISO VIS 32, Minimum VI Incl vit specified:	Performance and specifications must equal or society light SPIC-604.	
M60431	Petire	Oil Mineral Gear, E.F., ADMA SEP, ISO VG 200, Mineralm VI 95 Grease, Nineral Of Base, ISO VG 200, Military page, (1942m Cemplex		
8/EC-0/32	Petison	Trickener, High Temperature, Auto-Luber, EP, R&O, NLGI 1 (Must be serine present as MEC-013)		
MEC-034	Pictoria Pictoria	CX, Synthesia (PAG) Polyekylane Glynol/Easer Blend, Air Compressur, Rotary Genye, ISO VG EJ, Minimum VI 200 DS, Minerali, Estraight Perathrio, Pausiking, ISO VG 15022, Minimum VI SO (MISC-044 was careolikated into MEC-034.)	Performance and apacifications must equal or exceed ingered Rand IR Ultra Coderd.	
		Inverse-sea resident source and security (1994)		

Attachment 2 - MetAmerican Energy Lube CV Technical Specification MetAmerican Energy short specification

¥EC- # 25	ection	Cis, Synthetic Polyof Enter, Hydrausic, Fire-Revieward, ISO VG 48. Minimum VI 140	Parformance and specifications must equal or monoid Qualor Quintohisms 502-220 or 538-46, which two rapiscod 622-220.	ASTM D 82 Fixeh Point -> 525 F ASTM D 82 Fixe Point -> 615 F OIN 81784 Auto ignition Temperature ->840 F
MEC-1998	Action	Oll, Syribatic, PAO or Hydrocarbon and Ealar Bland, Gear, AGMA 5. Non-EP, R&O, Minimum VI 132, ISO VO 220		(Fre resistance properties pertied by Pectory Mutual)
MEC-867	Active	Grasse, Mineral Of Bose, ISO VG LIXI, For Low Speed Eastings, Heat, Steem, and Water Visitous Resistent, High Yempersture, Akaninum Complex, EF, R&O, NLG: 2		
MEC-#33	Active	OS, Mireral, Hydrauso & General Purposes, Non-Arthuest, R&O, ISO VG 32, Mirerum VF 85 (MEC-006 Turbins OS may be used to meet this specification.)		
MEC-039	Active	Oil Miranai, General Purpose, Antiesen, RSC, ISO V3 100, Minimum V SS (This epocitication is cirroral identical to MEC-018 and they should be combined.)		
MEC-040	Active	Oil, Narsonal, Chesin & Cabis Lubricanit, ISO VG 22-32, EP, -10 F to 300 F Operating Temperature, > 260 F Feast: Point		
MEC-041	Patters	 Afrensi, Hydreutic & General Purpose, Non-Archivear, R&O, ISO VG 320, Minimum VI 85 		
MEC-042	2 44 24	OS, Synthetio, Diester, Air Compressor, Reciproceting, 180 VG US, Minimum VI 94	(Next be equivelent to Alies Copco Roto Z Compressor City	
MEC-043	Antion	02. Neveral, Hydraulic & General Purpose, Non-Arbiener, R&O, ISO VG CJ., Minimum VI 106		
MEC-045	Active	Cil. Nimeral, Straight Nagahthanac, Bearing & Light Geor, Fluxing, ISO VG 150, Nimerum VI (not yet specified)		
VEC-400	Požera	Oil Minorat, Gear, ISO VIS 160, Minimum VI 65, EP, AGMA 4EP, SAE 9((This spec appears to be a depleate of MEC-016.) Grease, Minorat Oil Bose, ISO VIS 220 to 460, Minimum VI 60, Litham	}	
MEC-047	Patiens	Soop Techenia, Paul St. Minjoblerum Disciple, E.P. REO, NLG 2 Greene, Mowrai Oli Bess, ISO VG 46, Mirkman VI (ENTER), Linksm		
WEC-2948	Action	Soup Trickerer, Multipurpose Grease, Bectric Motor Bearing Grease, Low-Noise Grease, Non-EP, R&O, NLG1 I		
MEC-#49	Active	OE, Mineral, Gear, Orive Train and Transmission, SAE 30AV Gresse, Mineral OE Boss, ISO VO 32, Minimum VI (ENTER), Calcium	Cetarpitar TO-4; Atlaca C-4	
MEC-#50	Asthre	Scop w/ Graphica Trickener, Rell Curve & Wheel Flange, NLOI 1/2	Gnaphite content must equal or exceed 12 %.	•
14EC-#51	Folices	OE Synthetic PAD, Essering & Geer, Non-EP, ISO VG 150, Minimum VI (not) yet appealsed) Grease, Aframa OB Besse, 850 VG 120, Minimum VI 85, Synthetic	Performance and specifications must equal or exceed Mobil SHC-628.	
MEC#58	Active	Polyunas & PTFE Trickerser, EF, R&O, NLGI 2, Might Temporatine Parkirmance = Pess at 500 house - 10,000 RPM @ 480°F, Water Washoud, % base, @ 175°F, (typical) ASTM D 1264 <5%		
MEC-054	Active	OS, Mineral, Turbins, General Purpose, Non-Ambierar, R&O, ISO VG 100 Minimum VI 100 (Duplicate of MEC-125)		
MEC-055	Active	Oil, Afrierrei, Hydraulic & Geraral Purpose, Non-Arthweir, R&O, ISO VG 150, Minimum VI 95 (MEC-052 was consolidated this MEC-055)	Denkon HF-1; Violaire 266-S; Cindmett Missonn P-35, P-54, and P-55.	
MEG-056 MEG-057	Active Actives	Oil Synthetic, PAO, AOMA SEP, ISO VG 320, Africant VI 170 Dil Synthetic, PAO, ADMA SA, ISO VG 1000		
MEC-OSE	Pation	OT, Smitheld., (TYPE), Gran, AGMA B, Millemore VI (), 190 VG (300	The state of the s	
MEC-038	Witten.	Oil, Mineral, Hydraulic & General Pusposse, Artheese, R&O, ISO VG 46, Minimum VI 135, Vilide Temperatura Ranga	Derison HF-O & HF-2; Violens H385-5 and M-2850- 5; Repine Model S; and, Chickmett Misonon P-63, P- 66, and P-70 for varie, platon or gear type pumps.	
MEC-060	Active	Ott, Minerei, Hydrautic & General Purpose, Non-Antiwess, R&O. ISO VG 220, Minereza VI 90		
MEC-OW1	fative .	Ož, Mineral, Hydraužo & General Pusposes, Non-Arthweir, R&O, SiO VO 480, Mineram VI 80		
MEC-084	Active	Olj, Minoral, Hydraulic & General Puspose, Non-Anthrear, R&O, ISO VG 45, Minhrum VI 105 (Dupticalas: MEC-094, MEC-098 and MEC-119.)	Derivon HF-1; Violenz 288-8; Chobrazi Maccon P- 36, ps4, and P-56. GE GEK-485084; SAE-ARP Capas 8 & HAS 1636 Chase 6 viol. Hit Pump, SAS- ARP Capas 4 & HAS 1626 Capas 7 w 1th Pump	
MED-405	Active	OX, Mineral, Engine, SAE 40, U.S. Military Mill-PRF-2104G, CF-2, CG4, S.F. OX, Synthetic, PAC, Geor, AGMA-SEP, R&C, Minimum VI 150, ISO VO		
WEC-086	Petiere	220		
MEC-087	Active	(MEC-102 was consolidated into MEC-083) Oil Synthetic PAO, Air Compressor, Goar, Non-EP, R&O, 180 VG 100, Minimum VI 130 (Curticulus MEC-105)		
MEC-099	Petions	Di. Systemic, PAC, Hydrausic, Non-line Aribusus, R&O, ISO VG 22, Mirimum VI 193	Denison HF-1 & HF-2A; Victors I-288-8 and N-2650- 8; Cinchned Misconn P-86, P-69, and P-70,	
MEG-070	retiren	Oil Mineral, Compounded, Low Speed Searing & Gear, Steem Cylinder, AGMA 7, ISO VG 460	essand Consoci inca 06 460.	
MEC-071	Pelina	OR, Mirward, Low Spired Blearing & Gear, Steam Cylinder, AGMA 8, ISO VG 630	Performance and specifications must equal or exceed Coresco Iros Oil 880.	
MEC-072	Active	Greens, Systemic Of Base, PAC, ISO VG 22, 18 fanten VI 130, USAsn Sous or Lithern Cemples Trickerser, EP, R&C, NLCI 1		
MEG-078	Active	Grosse, Synthetic OS Bases, PAO, ISO VG 460, Minimum VI (ENTER), Lithium Complex Thickener, EP, RSO, NLGI GO Gresse, Mineral OS Bases, ISO VG 480, Minimum VI RS, Barronite Clay		
MEC-074	Active	Production Figh Temperature Grosse, EP, Ni, Gi 2 (Except for Ni, Gi Grade, this greater is the same as MEC-122.) Greater, Missral DN Bees, 190 VO 480, Sérimum V/ 86, Calobum		
MEC-275	Active	Sulforeste Trickener, High Temperature Greese, Water Washout Resistant Greese, EP, R&O, NLGI 1		
MEC-076	tation	Greene, Ninetsi Di Base, SIO VG 483, Alidmum VI 95, Cabium Suferata Trickerer, High Temperature Greene, Violar Violatout Residunt Greene, EF, R&C, N. GL 2		
MEC-077	Active		Performance and apacitications must equal or exceed Dow Coming 111 Valve Lubricant.	
MEC-079	Antiva	Non-Zino Antisseur, R&O, ISO VO (IS, Minimum VI 95	Derisson HF-1; Victoria 286-5; Cincinnat Miscon P- 38, P-54, and P-85.	
MEC-1003	Acino		Performance and apacifications must equal or excess Shell Tivels Compound Abbricant.	
MEC-087 MEC-981	Active Active	Oil Mineral or Systhetic or Systhetic Bland, Engine, SAE 10WXX, R.SAC SF-S, CF-2, Chrysler MS-6393 (Rev. T) Oil Systembs, PAD, Geor, AGMA 7EP, Minimum VI (1, ISO VO 480)		
MEC-083	Action	Grosse, Synthetic Oli Sesse, PAO, ISO VG S2, Minimum VI 140, Organic	Pario mano and apodinations must equal or	
MEC-G94	de r ^{as} ticas	OI, Milmetal, Muldipurpose, Transmission & Hydraulic, Transor Firest Drive, ISO VG GC, Minimum VI 145 - See OEM Specification Requirements	wowed field Term; SMC 25. AGCO Proses Puid 627 M; Q-14336, Q-1802 (Type 35 FAdr), Q-17823 SFAdr), Q-17823 Case H MS1720, MS17207, MS17207, MS17208 Case Hew Holland (CAH) MAT3525 (134-0 FAst), MAT3525, MAT3525 Case Pige TO-2 extraorists) Case Pige TO-2 extraorists) Case Pige TO-2 extraorists) Case Pige TO-2 extraorists Ford MS17205, MS17205 Ford SSM-M2C134-0, ESM-M2C48-0, ESM-M2C54-0, ESM-M2C54-0	
MEÇ-086		Gassase, Miness DF Baco, 150 VG 100, Minimum VI (ENTEM), Limium	grades), VA-6 ("Type-303 Fisids") Klubbas 1077 Fisids Lumdini Treation II Hydratolia Fisids Adenouse Fersynanco GMS 841143/M1143, M1141, M1135, M1125A Soundetern of Hydronsisteit. Treamentellation Fisids Voloram (Caston) M-28501-5, 1-288-S Volora VMSE WB 101 (VCC 1273,03) ZZ TE-MB. USS, GSF, 172. Performance and specifications result equal or second 6146 (Voloram RA Granosco).	
		100	- 1991	

This Specification to be used for all MkiAmerican Energy materials

Attactivment 2 - MidAmerican Energy Lube OS Tachnical Specification MidAmerican Energy short specification

MEC-088	Activa	Grasse, Mineral Of Sesse, ISO VG 1000, Minimum VI (650 c5) @ 40, 37 c57 @ 100), Sodium Soap Thickener, Skaring Greeke, NLGI 1	
MEC-097	Pallera	DE, Syrvenio, PAG, Az Compressor, (SOVG48	
MSO-088	Millore	#8. Syndroid, Genter, Air Comprosor, 180 VG 198, Minkmum VI 96	
MSC-099	PCIva.	Greece, Say Oli Base, ISO VG 86, Minimum VI 200, Pall Curve & Whee Flange, NLGI 1 (Conforms to State of lowe Senate File - SF 2185 and SF 2248 Purchesing Preference for Biobseled Lubricante)	
MEC-100	Pellora	Ct, Mirrarui, Hydraubr & Fluid Power Transmission, ISD Oil Type HM, Zino-Free Anthrees, R&O, ISO VG 45, Mirrarum VI 103 (MEC-112 www.consolidated into MEC-101.) Grease, Mirrarui Of Esse, ISO VG 100, Mirrarum VI 80, Synthetic	Dension 20-VG, 25-VG, and 104G vans pump tests.
MEC-101	Petion	Polyuna Trickeror, High Temperature Grease, Sali & Rober Bearing Grease, NLGI 2, MUST MEET LUBRICANT RECURREMENTS OF GEK 48383F (MEC-101 is a mast duplicate of MEC-117 and 136)	GE DEK 40302F
MEC-102	Action	Gresse, Synthetic Of Base, SEcore, ISO VG (EWTER BASE OIL GRADE), Minimum VI (ENTER), Coupling Gresser	
WEC-104	Pettoni	 Ož, Synthetic, PAO, Hydraulic, Nen-Zinc Anteriosir, ISO VG 32, Withmum VI 135, VAda Yemperature Range 	
MEC-105	Active	Cit. Synthetic, Diester, Air Compressor, ISO VG 100, Minimum VI 95	
MEC-107	Active	Oli, Minarai, Driva Train & Transmission, SAE 10, Alliann C-4, Catarpliar TO-4, Euclid equipment, Komatau equipment, Vickara (Eston) 84-2880-5 ZF TE-88, IDSC for torque converter transmissions.	
MEC-408	Pactions	Greate, Systhetic Of Basis, Dissitor, ISO VG 46 (3,1-2,4 (§ 100 C)) Minimum VI (-100 F to +300 F), Inorganic Gel Trickener er Libburt Scap	
MEC/108	PG5240	Low Temperature, NS,GT 2 Oil, Mineral, Engine, BAE 10A46, API SM / LSAC GF-3	
MEC-111	. Active	Gresses, Mineral CA Base, ISO VG 63-100, Minimum VI 100, Aluminum Complex Thickener, Multipurpose, High Temperature Gresses, EP, R&O, NI ISI 2	
MEC-112	Pedieve	Greene, Synthetic Oil Bess, PAO, ISO VG LS, Ninimum VISO, Akanimum Complex Trickener, Bessing Greene, EP, R&D, NLGI 2	i
MEC-113	Peiine	Greens, Synthetic Of Base, PAO, ISO VG 1350, For Heavily-Loaded Low-Speed Bearings, Litrium Complex, Trickmer, EP, R&O, Anthroad,	Performance and specifications must soull or someof Makelith SPC 1800.
886C-114	Pethya	NLGI 1 Grease, Mineral Of Base, ISO VO 100, Minimum VI (ENTER), Lithum	CONTENSION PRODUCTOR OF THE PROPERTY.
		Sosp Thickener, Multipurpose Gresse, Electric Motor Bearing Gresse, Low-Holse Gresse, Non-EF, R&C, NLGI S	
MEC-116	Adhe	ON, Mineral, Gear, EP, ACMA XEP, ISO VG ED, Minimum VI ES Grasse, Synthetic ON Sees, PAC, ISO VG 100, Minimum VI 105, Synthetic Polyume Thickenser, Bak & Rober Seesing, Non-EP, R&O, N.C.	
		2 OS, Swebelk, PAD, Hydrocerbon, Grar, AGMA 4EP, ISO VG 150,	
MEC-118 MEC-120	betion betion	Minimum VI 130 Oil, Minemi, Hydrautic & General Purpose, Arthreat, EP, R&O, ISO VG	Dentece HF-0 & HF-QA; Vaccere 396-S & M-2950-S;
MEC-123	Action	100, Minimum VI 95 Gresses, Synthetic Ct Base, PAD, ISO VI 220, Minimum Vt 130, EP,	Circhrest Mecron P-E3, P-E9, & P-70
MEC-124	Action	R&C, Withe Temperature Resigns, Littlean Complex Trickensis, NLGI 2 Oncess, Mineral Old Base, SIO VIG 160, Minimum V160, Litelum 12- Hydroxyelmarata Trickenser, Malifeturpose, EP, AW, R&O, NLGI II (Same	
MEC-126	ACTIVO	es MEC-014, escapt for tradement and AML) Greece, Mineral Of Base, ISO VG 220, Minimum VI 80, Litrium 12-	
MEC-127	holive	Hydroxyssearate Triokseur, McGpurpuse, EP, R&C, N.Gi 2 OK, Mineral Dislocko, Insulating, Transformer, AVSHASTM D3487-QS Type 8 Inhibited OR, GE A13ADA2 (TOCA), Westingthouse Specification	
MEC-128	Aestra	POS 89823AG DE Mineral, Reirigoretion Compressor, ISO VG 12-S2 (SUS@190F =	
MEC-12#	Peiine	160), CE, Mineral, Raffgeration Compressor, ISO VG 300	
MEC-130	Fature	OR, Synthetic, Polyathene Gyoot, Geer, ISO VG 680, Minimum Vt 220, Wide Service Temperature Range: -25 to 160 C, Seel Competibility. Name (NSR) & Vison, OEM Approvals: Fender AS	
MEC-131	Pictoria	Grassis, Systemic Oli Bass, (ENTER TYPE), ISO VG 320, Berconite Thickener, High Temperature Grasses, Food-Grade NSF Class H1, EP, R&D, NLGI 2	
MEC-133	Pattiere	CN, StynOndic, PAC), Instrustrial Gas Turbine Lubricant, ISO VG S2, Minimum V1 130	Allieta Ges Turbins Daksim SARS-45, Croper Industrias Ges Turbines, Cameral Electric Company Ges Turbines, Boter Turbines ES 9-724, Westinghouse Ges Turbines
MEC-134	Paliye	OS, Synthetic, Polyelisane Giyool, Geer, AGMA SEP, ISO VG 322, Minimum VI 225, Wate Service Temperature Range; -25 to 160 C, Seel Competibility: Notice	
MEC-135	Politicos.	Grown, Synthetic Of Sene, Perfusionalyether, ISO VG 1000 USt @ 40, 65 USt @ 100, FTFE Trickerser, High Temp > 550F (What an open spec - duplicated MEC-117 and MEC-101, Paked James	
MEG-136	Activa	to make MEC-195 an open spec on 1/25/2013 and keep MEC-101.) Gresse. Mereral Of Bass. 150 VG 100, Mererum VI (11.5 obt at 100F.)	
MEC-137	Pettere	High Speed Bearing Green, Littlere Complex Trickense, R&O, NLSS 2 Greene, Synthetic Ol Beas, PAC, ISO VG (ENTER), Minimum VI 120,	
MEC-138	helion	Get Thicherier, High Temperature Grasses, MLCS 2 CS, Synthetic, Ester or Synthetic Organophosphate Ester, Non-EP, No Fristlant Reducting Additions, White Temp Renge, MIL-L-7008, MIL-L-	
7010_A(F*1100	200,70	DECT. ISO VG 30 (Nominal) OIL Swithers, Deader, Ar Compressor, ISO VG 32, Minimum VI 130.	
WEC-198	Pictoria	Fleeth Point 450 F, Pour Point 450 F	
MEC-140	Pattorn	Greener, Synthetic OS Base, PAO, ISO VG 100, Minimum VI 150, Librium Complex Trisdener, AVV, R&O, non-EP, MLQI 2	
MEC-141	<i>Institut</i>	Greense, Mineral Oli Basse, ISO VG 100, Minimum VI 1, Septum Complex Thickenser, Sendre Temp Renga -20 to 140 C, EP, NJ, GJ 2 Greense, Systhetic Oil Basse, Silicone, ISO VG 100, Lithium Scap	
MEC-142	Peline	Tricterer Edwerts Low Temperature Service, Service Temp Range -73 to 204 C (-100 to 400 F), R&O, MCS11 Onesce, Synthetic Of Base, PAO, ISO VG 128, Minimum VI 190, Litrium	•
MEC-148	petros	Soap Thickener, EP, NLCI 8, Special Thioptopic Grasss for Stack Coal- Feeder Gearboos	
MEC/444	Petisen	Oli, Slo-Samed, Districtic, Insulating, Transformer Grease, Synthetic Oli Sess, Siscens, ISO VO 125, Littium Scap	Explinated requirements to 8/EC-127
MEC-146	Petino	Trickener, High Temperature Service, Service Temp Range -400 to 204 C (-407 to 400 F), R&O, NLCS 2	1995 Carrathantana 6516555 no 1 455155 and
MEC-148	Actions	Oil, Synthebic, 79:4-ryl Phosphate Euter, Hydraulin, Fire-Resistant, EFC Fluid - Miss Contain 44% TPP - (Same as MEC-422), except for the Britistian on TPP concentration)	GE Spaulituations 40357 and DSGA128 Skinners (formerly Westinghouse) steem turbine EH control fluid appointmention 53740AL

This Specification to be used for all Middinarions Energy materials

Attachment 2 - MidAmerican Energy Lube Oil Technical Specification MidAmerican Energy Lube Oil Technical Specification

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C. St. C.
Cookshan 32 PPM, Phosphonun 340 PPM, Budir RBO PPM, 2810 3815 - 482 PPM Control of the Cookshan Cooksh
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Attachment 2 - MidAmerican Energy Lube Oil Technical Specification MidAmerican Energy lang specification

	W								er over the gar			,			***				
MEO-027	CR, Minard, Channel Papers, Arthrest, RSO, 180 VG 22tt, Midmins VI 95	Denter 16-1, & 16-24, TS-C reptroments, Victors (309-8 & 842950.9), and Circlevel Silveron P-88, P-88 & P-70,	Malpurpose PAC 223	330	18.9	87	88°	548F (0000)	Ptemphoena 25 PP M	2.5		7700	300 superpres pa	p.0%		1e		bazz	
MEC-978	Grown, Synthese Off Base, Silicone, ISO VG (EMTER BASE OIL GRADE), Machium VI (ENTERS, Carbon Stack Thickense, Searing, Extrems High Temperature, ALG) 2		3 for Phoduct												1				
	CR, Syrshadic Td-Aryl Phrosphate Enter, Hydrocilis, File-Posibilist, EJRC, GE Spec CSGA128-81		Ma Product																
MEC 800	COUNTRY PAC, Bearing & Genry, Man-EP, ISO VIS 22		PyroperR&O 32	83	5.6	194	-200.	4734: (0000)	Phosphare 306 - 570 PPM	10.5		2400	18 minutes to some	pass		1:	s	\$m#	
MEC-081	Of Mond Con, EP, AGM SEP, ISO VO 300		Extra Duty Stare CS 320	320	23.7	98	OF*	#(7#(TXXX)	Photohorus 220 - 400 PPM Sullis 6300 PPM	5.0		nos estaganstra	· model ·	•					
M(C0%	Gr. can Mirmed CE Sone, 180 VG 236, Muliperpose, Figh Temperahan, Austriano, EP, NGC, NGC 1 (Must be more green as ASC 045)	·	his Alphan Rod #1	170	15,8	25	not applice the		State of course of the	Dark Red Vised	3 mil while growing and a	nsi appäeabis	ucqaž io_{go} m pgs	not applicable				poss ASTM D1743	
MECES	OS, Synthetic (FAS) Polyakylene (Sycol, Ale Congresser, Relay Screw, ISO VII (3, Melinum VI (80)		Syndustrial Robery Compressor OS 98 (Product not staronly analistic in ISO -																
MECOM	Oli, Mineral, Straight Perathria, Planting, 190 VO 1802, Minimum VI 90		Inex astrial Office	22.2	6.4	101	æ	400F (CC)C)	He read dist schill/van	1.0.5									
MECAN	CS, Synthesia Polyel Estar, Hydracillo, Pha- Resistant, SCO VG 48, Whitman VI 140	Pastery Mutual Group II, Type I #ThU, Lees Plantamethe Hydropilic Phild, Must most ar amount Gueller Califold that III-220 and 888-48 specifications and performance.	Synctroteted PM Hydrocides Physicides	æ	10.0	\$20	**	51.8¢ (2010)	Phosphosia 180 - Mappa Sing 200 PPM	Light Amiter, Visual	•			pass	*****	11	b	\$695	
ME 0-036	-CR, Byrdherlic PAO, Geor, AGMA 5,180 VG 220		8994cm R&O 230	229	22.8	127	.37F	475F (CDC)	Pitrosion 1910. 7100 PIW	£1.0		595		pass		51	ь	pacs	
MEC/037	Westerics Forstalant, 1989 Ten petalure.		Ford Machinery Grance	330	18.5	100	1×4850%+2\$4			AN MAN Against	troi s ppilaciós	nt applicable	mit applicable					pese ASTM D1743	
м ∈¢.038	Atunianum Complete, E.P., 28.0, Nt. 18 2 OR, Minarat, Commit Purpose, Mary-Androner, 1860, 350 VG 22, Minimar VI 88	Devices 157-42, & 197-2 requirements and Victom 1-288-8 & M-1970-8, Rectus Model 8 and Cleanwell Milacom Pack, 7- 99 & P-70 fee vene, plesses or gent type pages.	Tenthina OS 32	21,8	5.4	1652	-408	enf(cx)	Pap 20 తగుతోని జానుకొయి ందు	a.s	nei sprikostija	>1200	25 11 indexes in	pass	n od applienista	t.			क्रांक्ट टावर हैनेक क्रांक्ट
1250 AAA	OR, Milnerel, Phydrandic & General Purpose. Anthoner, MAO, 1810 VG 100, Minimum VI 05 -	\$ - october	100? Oan more examen	101	11.3	67		DLED MANAGE	plyaptions 26 PPM	10.5		700	20 m knobee to						
ME 0440	DUPLICATES BYTIC MEG-120 DE Persetration, Control & Codes, Aurosol		No Frankel	101	11.00	07	******	are (can)	Salandarous Co La. M.	64.3		1162	bass	posse		•	*	basi	
Moon	OS Mirrord Market & Standard Community		Newspay Island Marc 250	518	23.9	\$5	8 6.	S TOP (CONC)	Phenohorus 25 PP 64	4.6		760	20 minutes to pass	pans		3	in	pane	
MEC-042	Oil Synthetic Diseler. Air Compressor, Reciprocating, ISO VO 68, Minimum VI 67		Symphotoli PISJO 68	96	8.4	84	AF	698 F (CCC)	Fito makitis arisitives	0.5		>1780	15 mirries (e C/89	pass		1	*	pina	
MEG-G-S	Oil, Mineral, Hydreudie & General Phispines, Nort-		Twition OE 68	63	8.5	100	-176		වන හන් වේද පරාවර්ණය	0.5		>1200	26 minutes to	bess		1	in.	bass	
MEC-048	Andyrine, NAO, ISO VG 68 CS, Microsof, Stranger Maphibhoria, Southing & Ligh Geor, Plantene, ISO VG 180	ŧ	Sign Francis, and					1 41					35.68		***				
MEC-648	OR Mineral, Gens, BP, AGMA 4EP, ISO VO 180	t,	Exist Outy Gent Of 150	160	16.4	67	-279	AUST (COC)	Phospharus 220 - 400 PPM,	4,6						1	a		
MEC-047	Green, Minord Of Base, ISO VG 720-493		Mozorión XIXI EZ geneza	480	286	82	11/4 Application		SUM & SINCE PPM.	grwy-black Vlains	я менрейский в	net applicable	nci spplicable	neë a palific side				pmes ASTM D1743	
MEC-048	Green, Mineral Of Here, ISO VO 46, Ministers VI (ENTER), Lithius Song Thickener, Militaryman Green, Electric Malor Specing		illa Protest	852	40	184	ent equilibries			RedSfixed	1445 wickage a gipa		not entraparative	nut explicable				pess ASTM D1743	
	Sire and Low-Philad Greene, PlancePP, FRED, 18.02 2 CR, Michael Gaser, Other Traffi and Teccessivistics SAE SC, Afficus C-4, Colonyllian 1°C-4, Euclid								Calcium 2189 - 2000 F994	4-	7.6 by ASTM							D:145	
MEC-046	 seriálpment, Kornatori equipment, Victoria Elabori 36.2860-5, ZF TE-58, CSC for burque conventor transmitinatoria Gresse, Nilmonal CRI Plane, 180 VG 23, Minimum 		D. withnesself	88	11.1	180	477	#STF (COO)	Pinagharus 880-1016 PPAL Zine 980 - 1210 PPAL	2,0	02994	and abbyways	noi applicable	र गरी ब्यू कृषियार्थ केंश्र					
"ME 0:450	 VI (EDVIETS), Codokura Goop of Graphita Thinkerner, Rail Curva & Witnest Fleriga, NLGi 10 		No Preduct																
NED-081	C8, Symbolic PAO, Bearing & Gear, Non-EP, 180 Vol 100 Grane, Wastel Off Rece, ISO VO 100, Midwale	_	Sympeon PAC 1955	150	17.5	126	~409*	wish (cax3	1 2 magazaca 7 90 ° 150 66.48	L1.0		850		bass		1	13	ewsk	
88C083	VI SQ. Symbolic Polysme Thickness, EP, PAID, NLSS 2	*	Polyne EP\$19 wers	123	11.6	71	१९४९ व विश्वीरमाधिक			Creen Viscosi	na Pienis	1005 Whitely Calego	end २ (दर्केटालेडेन	road apprilicable				ASTM 01743	
MEC-094	AMERICANS, PRINCE, PARCE E SE COST, MEETINGSON RE 103		Turbine Office	163	11.\$	100	-115	\$31F(COC)	Fito medial in achilities	8,5		>1240	25 mi nutae se pass	D# 89		1	ls	pess	
846 C-038			, NA				w %		Phospherus 288 - 412 PTM,						4.4" 44				
88E.C-068	320		Syncron E.P.Piter Greet CH 320	218	285,9	. 1323	-445	464F(120C)	BUSA 5960 - 8400 PPM, 23ec 5 PPM	1.0				bass		1	b	\$1066b	
	OS Synthesia, Geor, 10/0 VO 1600 OS, Synthesia, Geor, AGMA, ISO VII 680		HoProduct DESC AR receive	600	47,9	121	~1%F	470F)0000	Pisosphona 1505 - 2100 PPM	£1.0		268		P/608		-5	Fibs	pene	
	DE Mineral Hydronine & General Purpose, Arthrene, R&O, ISO VO 45, Victorian VI 198, Whis Tompstatus Paraja, Pota Point 4, 30		Magaelous AVV 1971 System der CN 48	46	7.3	195	-487	4%F 87X7	Calcium SIPPM, Phosphorus	5.5		*266	főmindesta pass	Your		•	i s	pa 95	
MEICORO	CN, Minimal Hydroxide & General Perposa, Nov. Andrews, RMO, ISO VO 225, 14 times VISI		16.00kupton it 6.02.25	220	15.9	8?	58*	248£ (2000)	Florphyron 25 PPM	\$.5		706	20 minsteret o pass	2003		5	le.	pass	
ME 0-081	OR, Minural, Physicalle & Oncoral Pierpose, Mos- Archiner, RSO, ISO VG 480, Minuser VI (ENTER)		SAMPLED BENEFIT BENEFIT STATE OF STATE	48 4	20.8	36	28*	sas looci	Phosphorus XS # PM	5,0		THE	25 m i redage his passe	ps:101		3	te	pass	
MEC-MC	Of Mount Mahmala & Ormani Droman Mar		Militaryone RAO 150	158	65, 5	97	1F	\$#F (COC)	P Jeophorus 25 PPW	2.5		700	25 mérados ha pass	pass		į	ī	Youze	
MECANA	CR, Missed, Hydraulic & General Pugassa, North- Ardineer, R&O, ISO VO 48, Mislemen VI 100		Testine Off. 48	48	8.7	102	-279*	48%F (0.00)	No metalis additives	6.5		>1200	33 m kartee se seem	bass		1	s	lawa	

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Attachment 2 - MidAmerican Energy Lube Oil Technical Specification MR4American Energy long specification

		21 - 12 - 120 - 14 - 14 - 14 - 14 - 14 - 14 - 14 - 1						Culctum 2260 - 2010 PPM	· .						
MEC-065	OR, Minoral, Engline, SAE 40, U.S., Milliany Mill- PRF-2704G, CF-2, CG4, SJ	TSX Heavy Duly Mistor CR 40	149	15,4	108	-27F	484F(200C)	Prespiento 900 - 1100 PPM, Suitus 3600 PPM, Zinc 1000 -	4.0	a,1 by ASTM C2899					
MECHA	Of, SynS-4th PAO, Geer, EP, AGMA SEP, ISO VG 220	Syncon EP Plus G . # C# 220	218	25.0	173	-40F	464P (CXXX)	Pheaphone 265 - 452 PPM, Suite 5600 - 8400 PPM, Zine 5 PPM	1.0	,**		•	bess	16	распе
MEC-067	08, Synthetic PAO, Gear, Non-EP, R&O, ISO VO 100. Minimum VI 198 (Sense 1955EC). 1983	5ymcon (R&O 100	83	12.5	150	-38F	927F (COC)	Phospherus 380 - 570 PPM	LO,S		2400	10 minutes fo		166	Pass
15003	Off, Syrfford: PAO, Hydroute, Arthour (Hon- Zine), Rico Iso vig 22, Minimum VI \$500	Syrom AW Hydraulic Fluid 22	22 ;	4.8	130	-87F	424 (COC)	Prosphona 440 - 850 PPM, Suiter 1100 PPM	0.5		2400	10 minutes io	pons.	1u	pen
. 1450 078	DR, Nimersk, Corn potended, Law Speed Bearing & Geor, Olemen Cylinder, AGMAT, ISO VG 480	Compounded G ser Oil 460	460	31.0	96	1 8 F	>5725	No metalic activities	L7.0			,,-		1a	basza.
MEC-071	Off, Mitheral, Compounded, Lew Spe. of Busting & Genr, Stamp: Cylander, AGMA 8, ISO V/2 880	Compressed Gase CR 650		37.0	Isl	23F	×612₹	No metalic additions	0,0		***			1a	pers .
MECOTZ	Grs. se, Systhedic Oli Bese, PAC, 180 V G 22, Minimum VI 120, LUNIAN 8 omp or Lithium Complete Thirthyset, EP, RG, OR, RG II	Titles Low Temp \$1 procts	26.2	6.1	124 :	not applicable			Brown V busi	not applicable	not applicable :	not applicable	not applicable		pess ASTM D1743
MEC-073	Greene, Bynthetic Cill Base, PAO, ISO VG 460, Eqs; vetest to Mehil SHC 007 Minimum VI (ENTER), Lebum Comptee	Thon ELL Green #00	420	. 44	155	not applicable			Enhand Green Visual	not applicable	not ep plicable	net applicable	not applicable		pass ASTM D1743
MEC-074	Tresponding Co., 1984, N. 1984 Oct. 1985. Minimum VI SS, Sactorita Clay Trickney, High Temporature Grazia, Ep. N. G. 2 Phindry the action of the Co. 1985 Act 1985 Ac	Bacthra Green (Duplicate)	450	31.5	25	not up oli obla		· ,	Galtien Varual	not spolicable	not applicable	not e pplic ubje	nut applicable		page ASTM D1743
MEC-D75	Gresse, Minard Off Base, 16 D VG 460, Minimum VI (ENTER), Culclam Scillonate Thickenee, High Tamperstare Greene, EP. R&O, NLGI 1	Crariguard S1 Greece	219	18.5	85	net applicable			Tan Viscal	not applicable	fict applicable	not applic ubio	ι		pims A6TM D1743
	Graws, Mineral Cfi Base, ISO VG 480, Malmum VI (ENTER), Cuickan Sulktrate Thickener, High Temperature Grusse, EP, R&O, NLGI 2	Orrefguard 67 G reace	218	16.5	95 ·	not applicable			Tan Visual	not applicable	nd applicable ;	not epplicable			pass ASTM D1743
MEC-077	Grosse, Synthetic Of Bane, Silicana, ISO VG (ENTER BAS E DIL GRADE), Malenum Vi (ENTER), Extreme High Tomparatum, NLGI 3	No Product													
	Oil , Mineral, Hydroulle a: Fleid P over Travordation, 150 Oil Type HM, Non-Zinc Anthress, P.1.0, 15 D.V.O. 68, Min Impey 185	Ecoloma Hydra silo Dil 68	68	8.8	101	-22F	485F (COC)	Phosphono 42 - 70 PPM, Sudu 200 PPM	L1,0		×500	15 minutes to pens	parts	ia	pinta
MEC-080	Granza, Synthesic Differer, Polyminera Glyvol, ISO VO 150, Mirbourn VI (ENTER), Genr, Uthlan Gorp Thickman, Sam Rida, HEGI 00	No Product													
MEG-087	Oil, Minney or Synthetic or Synthetic Bland, Engine, SAE 100/SSI, ILRACOF-S, CF-2, Chyster MS-535S (New , T)	Super All Sesson Symblered 1074-20	8	10.4	152	<-44F	444F (COC)	PPM, Suitur 3600 PPM, Zinc 270 – 960 PPM	35	7.9 ASTM D2896					
MEC-091	Oli, Syribudo PAO, Gres, EP., AGMA 7EP, ISO VG 450	Syncon EPPlus Gear Oil 460	463	48.9	166	-36F	484 F (CXXC)	Phosphore 20: 1-462 FP M. Suite 5800 - 8400 PPM. Zinc 5 PPM	3 1.0				be ps	1b	beez
MEC-083	Grosse, 5 yethetic Officese, PAO, ISO VG 32, Statement VI (ENTER), Organic Clay Trickstray, High & Low Temperature, NJ, G 11, 5	No Presists													
MEC-084	CB, Minard, Madin-sprint, Torpus hades 6. Hydrasile, Trasper Florid Cohen - 6 se OEM Sprinting Republic Republic Research	Powertran Fluid	61	8.3	146	伢	410F(COC)	Boron 1 10 PPM, Cale Ium 3240 4140 PPM, MMyAde men 80 PPM, Phosphanus 1070 -1310 PPM, Silican 10 PPM, Sultur 3280 PPM, Zine 1330 - 1720 PPM		9.8 AS TM D3696	NA				
MGC-095	Gresse, Microst Oli Base, I SO VG 100, Misreum VI (ENTER), Utylum Step Trickurst, Electric Mator Bearing Gresse, NLGI 3	No Product													
MEC-098	Greene, Minaral Oti Base, ISOV G. 1000, Minhumy VI (880 CS 16) 47, 77 CS T (8) T03, Gadun Sam Thickney, Bearing Greene, NLCI 1	No Product													
MEC-097	Oil, Synthetic PAO, Air Compressor, I SOVG 48	Bynon Rå C 46	44	7.4	1363	-38F	518F (COC)	Phosphorus 380 - 570 PPM	1.0,5		2400	10 minutes to	bess	18	pees
MEC ORS	OS, Symbotic Dioder, Air Compressor, ISO VG 150, Abritans IV See Greens, Soy OS Base, ISO VG 66, Minimum VI	S provocied RM C 150	150	15, 1	101	-586	909F (COC)	Phosphorus 220 - 480 PPM	0,5		≻1750	15 minutes to perso	pase	1 m	best
MEC-099	200, Rulicurus & Wheel Flange, NLG 1 Conformatio Statute I town Sensita Film - Str 2165	No Product													
MEC-100	General Purposa, ISO VG 46, agrimum VI 89	Ecolore Hydroulle CR 46	46	6,8	182	-21F	45TF (COC)	Phosphola 40 - 70 P PM, Suffer 200 PPM,	L1.0		>500	15 mi nutes to nexts	pess	18	phon
MEC-101	Grown, Mineral Oll Bone, ISO Vol 100, Minimum VII 90, Synthulic Polysma Thicharan - High Temperatura Grosse, Ball 8 Rober Douzing Grosse, NLGI 2, MILIST MERE TLUBROCANT REGUIZEMENTS OF DECKASSES	Polytae #2 grease	110	12.1	98	not esp ilicable .			Filmel Vistani	not applicable	not applicable	notapicabia	not applicable		ASTM D17 4S
MEC-102	Oramo, Synthetic Oil Base, Silicone, ISO VG (ENTERBASE OIL GRADE), His Insur VI (ENTER B. Casalina	No Product													
MEC-104	(EMTER), Cushing Oil, Byrthefe PAQ, Hydrinsto, Arthreum (Non- zine), 190 VG 32, Mill Arthreum VI 128, Wide Teamperham In	Sympon A W Hydraulic Fluid 32	32	8.8	125	-76	484F(CDC)	Prospherus 440 - 630 PP M, Suitur 1100 PPM,	0.5		>2400	10 m batterio pass	pass	18	pase
MEC-108	Tectphorature Renga ON, Synthatic Diesler, Air Compresser, ISCI VO. 100. Affirmum VI ST	Syndustrial R&O 100	13.5	19,9	84	-38F	500F(COC)	Phosphonia 344-518PPM	0,6		>1750	15mind alo	pass	16	prost
MEC-107	CR, Minmel, Divin' Trein & Treinsthusion. SAE 10, Album C-4, Campillar TO-4, Evold on Vapment, Konnstau, explain and Violana (Esion) IA-3860-5, ZP TE-44, OOC for lamps convertible Instant babans	Powerdithe 10W	43	8.6	105	-387	4158 (COC)	Calcium 2180 - 2080 PFM, Phosphorus 830 - 1010 PFM, Zine 900 - 1210 PFM	2,0	7.8ASTM D2896					
ME'C-108	Tratium teaturs Ort-sea, Byrthydic Off Bees, Diseaber, 180' VG , Ministrum VI (ENTER), I rangesto Gel Thicksoner, Low I experature, NLGI 2	No Product													

The Specification is be used for all Michowskers till very materials Attachment 2 – MidAmarican Energy Lube Oil Technical Specification MidAmarican Energy lang specifications

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MEC OE Spedification				
Picare bur	Wandfactures	Lastonhon est. Winorene		Consistion from Specification
MEC-001	Conoca	Conoco Megaflow AW HVI Hydraulic (3) 91	Meets Specifications	
MEC-001	Shell	Shell Tellus 52 V 32 (Formerly Shell Tellus Olls T 92)	Meets Specifications	
MEC-MI	Texaso	Texace Rando HWZ 32	Meets Specifications	
MEC-002	Cenoco	Conose Magathew AW Hydroulic OE E3	Meats Specifications	The product data sheet for this product does not list any CEM
MEC-002	Lubriplate	Labripizm+10-2	Actentable - Qualified	andersements.
MEC-NOC	Shel!	Shell Tellus SZ M 66 (Fermerly Shell Tellus Olls 68)	Meets Specifications	
MEC-002 MEC-003	Yexace Coneco	Texaco Rende HD 64 Conoce Multiplex Red Nx. 2	Mosts Specifications Makes Sectifications	
MEC-008	Shell	Shaf Retinan LX 2 Grame	Acceptable - Qualified	The base oil viscosity of this product is 180 vs 220 specified.
MEC-#04	Conoce	Can aso Multipurposa R&S 468	h# sets 5 p ecifications	
MEC-D#4	Shell	Sheë Mortine Dit 58 450 (See Spec MEC-061) Concoo Extra Duty Sear #8 720	Meets Spacifications	
MEC-COS	Ceriean		Mine to Specifications	
MEC-MIS	Mexi	Mobiliseer 990 XF12D (Formerly Mobiliseer \$30-Disson Snubs)12/1/CB)	Means Specifications	
MEC-CMS	She? Texace	She'll Omala 52 G 200 (Fermorty shell Omale 60 220)	hisets Specifications Nisets Specifications	
MEC-005 MEC-006	Canace	Taxaac Marops 200 Conom Extra Disty Gear O 8483	Meers Specifications	
MEC-MG	Mobili	Mohilgser 206XF 460 (Fermerly Mohilgser 634-Dizreo Shued 12/1/08)	Macto Specifications	
MEE-404	Shell		Meets Specifications	
MEC-COS	Teraco	Shell Ornais S2 & 460 (Formerly Shell Omela Oll 460) Testers Marrage 659	hisets specifications	
MEC-007	Amora	Amaso Permageer 860	Linacceptelale	
MED-447	Ceneso	Censco Extra Duty Gear #11 # 20	Acsoptable - Civalifica	Does not meet the VI specification:
MEC-007 MEC-007	Mwisii Shaii	Machigosa: 600 X P 650 Shell & meta 53 G 580 (Formerly Shell Omais & il 580)	Acceptable-Qualified Mests Specifications	The VI bits waith index! of this predicat is 5% vs #5 specified.
MEC-007	Texaco	Tenno Meropa 680	Meets Specifications	
MEC-008	Cheeron	Chevron GST 32 (Fittered)	Meets Specifications	
MEC-808 MEC-608	Conoce	Conoco Turbine Oli 32 (Filtered to Diamond Class) Shell Turbe Oli T 32 (Filtered)	Mests Specifications Mests Specifications	
MEC-009	Ceneza	Conpact TSX Reserve Duty Woder OR 10W	Meets Specifications	
MEC-BOS	#nell	Shell Rotelle T Single Grade DR 10W Off	Meets Specifications	
MEC-005 MEC-018	Texace Amace	Texaco Ursa Super Plus SP Single Grade Motor Oli SCW Amous SOC SC	Meets Specifications Unacceptable	
MSC-010	Conces	Conord YSK Heavy Duty Motor Of 30	kfacts Speaffications	
MEC-010	Stati	Shell Rotelia Y Single Grade Olis 30 Oli	Weets Specification:	
MEC-GIO	Textsico	Texaso Uras Super Plus SP 30	kioets Specifications	
MEC-011 MEC-021	Canaco istratesre	Canaco HD Fiest Supreme EC 15W40 John Deere Tong-Guard 15W40	Meets Specifications Acceptable - Qualified	
MEC-011	Mobil	Mobil Delvac i 25W-40	Acceptable - Qualified	
Meg-011	Promovil	Pennsoll Long Life Heavy Duty Engine Off 15W40	Accestable - Qualified	
MEC-011 MEC-011	Siteli Texaco	Shell Rotefie T Multigrade 15%-40 Cfl Texaco Urse Super Plus SP 15W40	Meets Specifications Meets Specifications	
MEG#13	Consco	Connoco Super ATF	Meets Specifications	
P480403	Shell	Sine# System SS AFF ARMS (Ferrmerly Formula Shall ATF Descript III - Assertant)	Mests Specifications	
	Canoco	Conoco Multiples Red No. 1	Accessorie - Custified	Base of Viscosity of this product is 170 vs 120 specified.
	Shell	Shell Gedus S3 V22XC 1 (Formerly Shell Albida EP 1)	Married and a second second	sense our separated in cost becaused in 150 At 750 Shectible?
	Shall	Shell Retirex CNX 1	Acceptable - Qualified	The bare oil viscosity of this product is 180 vs 220 specified.
	Chavren Conces	Chekran Dale Greasa EF 0 Concos Multiples Red No. 6	Amorphible - Queffled Menis Specifications	The base oil viscosity of this product is 220 vs the 160 specified.
				This product contains with turn map thickerserve the lithium complex
MEC-014	Shail	Shell Gedux SE V22#0{Formerly Shell Alvenia Greene EF(LF) ()	Arraptable - Qualified	marsified.
VEC-#14	Техасо	Tessaco MultiFelic EP C	Acceptable - Quatified	This product (apperently) contains a lithium sessi thickener vs the
	i,			ithken complex specified. Product is not a synthetic and sees not meet this required
MECOS	Co nasa	Conoca Food Machinery Greene Ro. 2	Unacceptable	semecrature range.
NEC-015	Luarielute	Lubripiate SFL Grease 2	Acceptable - Castilled	The lower specialing temperature limit of this product is listed as -25
				F vs this specification of -40 F. The operating temperature range of this product is listed as -41 F to
4 3 0015	Shell	Shall Comodin EF 5.2	Assectable - Caselling	348 F vs -40 to 530 F specified.
	Conese	Canona Universal Gent Lube \$690-50 (Same assare CMEC-078)	Meets Specifications	
	Cences Shell	Ceneso Universitisear Luke 8594-140 Shail Sofrack D. RSV4-140	Maste Specifications Maste Specifications	
	Conoca	Conora histipurpose R&C 100	MeetsSpedilications	
	Shell	Shell Carena Off P 100	Meets Specifications	
	Connects Street	Ceness Dougling Greate Shell Abrevia Greate CG \$1	MartuSpecifications MartuSpecifications	
	Chews	Chevren Litt-Pier Synthetic Greate CF	Meets Specifications	
経て 一種 事	Conomo	Canous Tribes 488 No. 1.5 Grease	Mests Specifications	
MEC-020	Mobil	Mobilith SNC Saries 450 No. 1.5 Greass	Acceptable - Qualified	The product sees not contain an EP additive. An EP additive is specified,
MEC-MEO	Shell	NO PRODUCT IDENTIFIED	Unacceptable	ph course.
		Conaco Triton SyntheticGear Luba 75W90	Masts Specifications	
		Shell Spires A SCR SAE 75W-50 Connect Extra Duty Gear Oil 100	Ments Specifications Ments Specifications	
		Shall Consta 27 G 100 (Formerly Shell Omals OF 100)	Massin Specifications	
		Coneco Syncon R&O 68	Acceptable - Qualified	Dass not meet the VI specification.
		Shell Corens S4 R 58 (Formerly Shell Corens A3 68) Texaco Celes PA C 68		
		E MANGO CA MUSTA O NO. Accuerão (M. Mango A Gran Lubre		
MEC-025 (Unacceptable - Not Established for N4 Milis	Base oil viscosity in this product is much higher than specified and
nac-025	V146 9 (5/C)	THE CASE OF PROPERTY OF CHARGES		product does not come with diluent added.
rec- m s c	Conorc	Conoco Gear Shield NC	Unacamptable	Significant deviation from views in specification. Helence by Mark Jeratura (A)
REC-025 P		Molifie Geer Lube 375NC		CheckPDS
	Whiter.ore	Whitmore Environmentary MiliGreane Will	Weels Specifications	
		Con aco Synaun R&G 488 Mobil 2012 504	Macia Speakkations	
		and bitarit. 904 Shell Mariinz 54B 480 (Fermerly Shell Omala Fuid III. 460)		
	Teraco	Taxaco Firenada AKI		
		Chevron A/0220 Conpos Multipursose R&O 220	Name to Specifications	
		Condo) muriplepase rigo 220 Sheli Morine Gii SD 220 (DOES NOT MEET MEC SPEC - CONTAINS NO	residentes apparate stations of	
	94E3	anthera		
		Texaco Rando HO 228		
		Dow Cerning Molykote 41 No Product Proposed		
12C-02\$		Pyropusi EMC		
		Na Product Proposed		
		Sheli Terbo Filiki OR 48 Coneco Syn wen Riki 32	Meets Specifications	
EC-890 S		Shell Carena S4 R 32 (Formerly Shell Carena AS 3/4		
	Tentata	Taxaco Finns de 32		
	Conors	Cenece Extra Duty Sear # 8 53#	Meets Specifications	

This Specificelies is be used for all Mid American Energy restatells. Attackment 2 - MidAmerican Energy Lube Oil Technical Specificelian Brandod Lubricants.

MEC-031	Mobil	Mokigear 800 KF 320 (Farmerly Mabilgear #32 - Discentinues 12/1/08)		
MEC-081	Shell .	Stuff Ornals 53 G 328 (Fermelly Shell Omala Oil 320)		
M6C-083.	Texaco	Texaco Marapa 320		
MEC-CEZ	Sheli	Shell Bathus 53 V 2 2001 Shell Bathus: CNO 1 (CONTAINS MOLY EM ABBITTYE) (DOES NOT MEET		
ASC-OSE	Shell	SPEC-VISCOSTYIS TOOMIGH]		
MEC-031	Shell	Shell Religion LX 1 (Het family) (BOES NOT MEET SHEC - YIS CONTY IS TOO	i e	
	471-47-	LOW) Texaco Starphes 1 EP Auto-Luber (Texaco Starphes Moky 1 PC 121944 -		
MEC-081	Texaco	Discensioned 12/03/05)		
	*	Conoco Syndustrial Rotary Compressor Gli (Product not currently	No selection of the sel	
WEC-033	Caneco	available from Conco in ISO 68)	Meets Spedifications	
MEC-033	Shell	Shell Corena Fuld PGE 68		
mec-034 Mec-035	Concep Concep	Conoco Industrial Oil 113 (ISO 27) (Seme spec as MEC-044) Conoco Syndustrial FR Hydraulic Fluid 46	Meets Smedfizztions MeetsSpeaffizztions	
MEC-085	Canoco	DASCO FR 255-2	Wass Displacem (Datos):	
MEC-086	Conoco	Cenose Syncon 25.8 380	Acceptable - Custified	Does not meet the Wispecification.
MEC-09#	Shell	Shell Morilles 54 & 220 (Formarly Shell Drowts Fluid RL 230)		
MEC-037	Conora	Conoco Fend Machinery Greate No. 2	Unacceptable	Productly net a synthesic all and descript meet be so all viscasity
MEC-037	Lubriplete	tumrisdomi 444		Spacification.
MEC-USE	Conoco	Consec Turbing Off 32	Meets Specifications	
MEC-038	Shell	Shell Turbo Oli T32		
MEC-086	Texaco	Tezaco Regal R& # 32		
MEC-039	Сописо	Conoca Muhipurpuse R&O 208	Acceptable - Qualified	Product data sheet does not list all required OEM andorsements.
MECAMS	Lubripiete	Lubriolane 2F 100(ZINC FREE) HydraulioCii		
MEC-GBS	Pulsajiroder	Présature #1		
MEC-GB8	Shell	Shell Circulating Oil 188		
MEC-089	Texaco	TexataRegal AW 188	the state of the s	
MEC-040	Chesterton Listriplate	Createrton SCI Chain Orive and Bushing Lubricant Lubrigiate Penetrating Chain and Cable Huid	Meets Specifications Acceptable - Qualified	Does not contain an EP additive.
MEC-040	Conoco	No Product Proposed	normal Supporting - advantage space	man train could rest to the with the course of the course
MEC-041	Cenoca	Conoco Multiparpese R&C 320	Azzaptable - Qualified	Conoco product siste sheet shows that the preduct persistes a non-
			Paragram - Chausen	zion antiweer additive.
MED-041 MFC-041	Shell Texam	Shet Mortine 53 BA 220 Farmerly Shet PArtin O(ISD IRD) Texaco Resal ABO 520		
MEC-041 68EC-041	Conces	ಾರ್ಜನ್ ಅಕ್ಕರ್ಜನಗೊಳಿಸಿದ್ದರು ದಿರುವದರ ಶಿಕ್ಷರ್ಥನ್ ಸಹಿಯ ಸಮಯ	Meets Specifications	
NAEC-042	Shell	Shell Yer cult Muid DE 62	The second secon	
MEC-D/G	Testado	T suzaco Cettus O E Sã		
RAEC-DAS	Chevron	Cherren GST 68		
MEC-DAS MEC-DAS	Conoco Sheli	Consco Turbine Dii 68 Sheli Turbo Dii 7 65	Meets Specifications	
MEC-D43	Texasco	Tataca Regai R表 集然		
MEC-045	Chevron	Chevren UtilityOil EVI150		
MEC-DAS	Conocc	No Product Proposed		
MEC-DAS MEC-DAS	Shell Texaco	Shell Cemes G8 E 150 Texacs Airs M 150		
MEC-048	Csacco	Conoce Ears Duty Sear Of (250	Meets Specifications	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
MEC-045	Mobii	Mabliguer Ses XP 15a (Formariy) 4 obligaar 529 - Obresis need 12/1/06)		
M8C-046	Shell	Shell Omala 52 G 15# (Ferrier's Shell Omale Off 150)		
MEC-046 MEC-047	Texaco Cosoco	Texate Marepa 150 Conoce Magazina XDS Gressa No. 1	Meets Specifications	
MEC-047	Shell	Shell Ratinax CMX 2 Greene (CONTAINS MOLY EP ADOITIVE)	to the draw with the second of the	
WEC-047	Texaco	Texaco Starpies Moly MPGM 1		
PAEC-ONE	Conoco	No Product Proposed		
MEC-ORE	Shell Conces	Shell Gadus S2 V100 2 (Formerly Shell Alvania Rt. 3 Gresse)	Meets Specifications	
MEC-049	Sheli	Coneco Powerérive Fisiti 30 Siveli Spirax S4 CK 30 (Formerly Shell Donaz TC 30)	erece syncosentures	
MEC-050	Conoco	No Product Fragment		
MEC-050	Amocs	Rykosale 1467		
MACC-OSC	Texaca	Texaco 904 Greese W HLSI 1/2	htt	
MEC-051 MEC-051	Conoca Mabii	Canono Synony #&C 15% MebilSHC629	Weets Specifications	
MECOSI	Shell	Shell Warting 54 8 150 (Formerly Shell Omaig Field Rt. 150)		
MEC-061	Texaco	Texaco Pionacia 15%		
MEC-053	Chevren	Cheurun Bhick Festi EF 2 (#rdy in 14 wa sarbidge on 7/7/11)	Acceptable - Open Not Meet Spec	
NAEC-038	Chexron	Chevron Rykon EP2 Premium (Discontinued) (Reinstated on 7/7/11)		
MEC-463	Conoco	Conuco Polytac EP Gresse No. 2	Acceptable - Qualified	Does not meet the viscosity, Vi, or PTFE thickener specification.
MEC-058	Shell	ManteAssitable		
8AEC-054	Consec	Connect Turking Oli 198	Meets Specifications	
MEC-054 MEC-054	Mobil Sheli	McBRETEHYY Shall Morlina 33 &A 100 (Formerly Shall Morlina Oil SD 100)		
MEC-054	Texass	To zoca Gogai R&C 380		
MEC-055	None - Obsolete Spec	None-BassieteSper		
MEC-056	Amsoli Conade	Arrest P19: 320	Meets Specifications	
MEC-056 MEC-056	Mobili Mobili	Concentioned EFFixeGerr Office Modificate	Meets Specifications	
MARCANS	Sheli	She's Omale 54 GK 520 (Fermerly She'll Omale HD 320)		
MEC-OSE	Texasco	Taxaca Firmacia EF 520		
MEC-057	Lubripiste	Lubriciate SPSDUItre 1880		Mr. Area A
WEC-057 WEC-057	Mobil Centes	Makel SHCERS No Product Proposed	Acceptable - Qualified	Preduct does not meet viscosity specification.
MEC-USY	Texaco	Texaco Pinnacie SP 1000		
MEC-058	Conoco	Connece Syncon R&O 690	Meets Specifications	
MEC-058	Motell	Model SVC 636		
MECCES NECCES	Shell Yexaco	Shell Hwiling S4 & 686 (fwimerty Shell Omalo Fluid RL 683) Texaso Pinnada 680		
MECOSS MEGOSS	Texaco Conoco		Meets Specifications	
N#EC-056	Mobil	Mode ote 15W	agent a second of	
MECOSS	Shell	Shell Telias S2 V 46 (Formerly Shell Telius Cilis T 46)		
M600-089	Yearann	Tokkon Mendie HBZ 48		Sandard annihila anten kan a standard taran 100 annihila anten 100 anten 100 annihila anten 100 anten 100 annihila anten 100 annihila anten 100 annihila anten 100 anten 100 annihila an
6AEC-060	Conoco	Conscs Multipurpose #2/0 200	Unacceptable	Preduct carriensaino-free anthreat; autspecification cells far no
NATICATION	Sheli	Shell Morlina 35 BA 228 (Formerly Shed Morlina OESD 220)		ra or removable
MEC-060	Tespeco	Texacataga (14022)		
MEC-061	Conpos	Conoco Multipurpose RSO 460	Unacceptable	Preduction telescine in elements and the series are series and the series ar
	Shelf			an house of .
MEC-061	Shelf Texaco	Shali Morina S3 EA 460 (Formerly Shali Marlina Oli SD 460) Texaco Regal R&D 460		
MEC464	Contacts		Meets Specifications	
68EC-064	Shell	Shell Turbo Oil 7 46		
NSEC-064		Texace Regal #8045		
Karr non	Texaco		Marita Kanadhandinas	
MEC-065 MEC-085	Texaco Conoco Snell		Maets Specifications	

This Specification to be used for all MedAmerican Energy meterials

Attechment 2 - MidAmerican Energy Lube Oil Technical Specification Branded Lubricania

MEC-065	Texaco	Yenzco Ursa Super Phys 40		
M&C-968	Conore	Conoco Syncon EP Plus Gear GB 230	Masts Specifications	
MEC-886	Sint	Sheli Omela S4 SX 130 (Formerly Shali Omela Fluid HD 120)		
MEC-CES	Texaco	TexacoPinnacieEP22#	The second secon	
MEC-967	Coneco	Conomi Synson R&O 188	Mests Specifications	
MEC-487	Telebook	TexacoPina wie 10%		
WECORE	Свяжее	Conoco Synton AW Hydraulic Fluid 22	Meets Specifications	
MEC-UTD	Cons•es	Conoco Compounded Gear OB 460	MastaSpacifications	
MEC-079	Shall	Shall Omala S1 W 460 (Formerly Shall Valueta J 460)		
MEC-076	Texaco	Texaco Vanguard 460		
Mer c/1	Contra	Conoco Compounded Sear OR 680	Meats Spec Restions	
MEC-#71	Shall	Shell Omata S1 W 580 (Farmerly Shell Valveta) 500)		
PREC-DES	Cenoza	Conoco Triton Low Tomy Grease No. 1	Meanshoodleathers	
MEC-073	Camesco	Consco Triton Sti. Grassa No. DG	Made Specifications	
MEC-073	Madil	Mabilith 5HC 007		
MEC-073	Street	Shall Retinas Tt CO Greave		
MEC-\$74	■ 221920	Censere Sentona Greena No. 2	Meets Specifications	
MEC-974	Luteriplate	Lebs spirate High Temp	*	
				Preduct de as net greet base all viscesity. Auslified based on most
MEC-075	Сапясо	Cometa dimnigate Grama He.1	Acceptable - Qualified	Control of the Court of the Cou
				Freduct does not meet base of violently. Autofited based an past
Mec-074	Conwe	Consco Omnigeri Greese No. 2	Acceptable - Qualified	With the second transformation and the second secon
MEC-077	San Cerning	Dow Corning 111 Valve Lube & Sexignt		1000
MEC-407	Cen.oce	No Product Proposed		
MEC-039	Cohean	Conoco Ecoterre Hydraulic Oil 66	Meets Specifications	
MEC-079	Shež	Shell Tellus S2 M G2 (Formerly Shell Tellus S Olls 69)		
MEC-079	Termita	Texaco Rando HD Ashinss 68		
MEC-000	Anderei	Anderd Soyer\$36		
				The Section Street Street Section and the land to the section of the
MEC-08	Diamand Fawer	Diagramat Power 927135-8087		The Product Date Sheet for this product has not been reviewed to
MEE-MO	Caroec	No Pracket Francisca		verify wat spers are met.
MEC-G80	Shell	Shell Tivels We (Formerly Shell Tivels Compound A)		
MEC-087	Date:	Conoco Super Ali Sesson Symblend 1044-50	Meets Specifications	
	Sheif	Shell Formula Shell 1045-30	eners aparmications	
MEC-GR7	Terme	Tegaco Heroline Metor Oil 1097-30		
MEC-067		Name - Chaniste Steat		
MEC-005	None - Sheolete Spec	None - Contracts Spec Control Synden EP Pilis Gear Of 450	Administrative Ministrative in	
MEC-WA	Canass Sheli	Condob System of File Sear Cit 450 Shell Greate S4 GX 460 (Ferment/Shell Orosia File HO 460)	Meets Specificalions	
MEG-081. MBG-081				
***************************************	Teyans	Tesaron Pinnacio EP 460		
MEC-BUS	M*bil	Model SHC ModelTemp 32		
MSC-#83	Свяасо	No Product Proposed		
MEC-094	Carraco	Conste Fewertren Fluid	Naets Specifications	
MEC-99%	Centre	Na Product Proprosed		
MEE-089	Shall	Stell Operina 84		
MEC-MIS	Shell	(Shells agreadsheet of 7/7/11 gives the same product as for MEC-095 -		
		Check this suri)		
MEC-198	Consco	No Product Proposed		
MEC-097	Cartons	Cwaceo Syncon RBIC 45	Meets Specifications	
MEC-#97	Shell	Shall Core or \$4 8 48 (Formerly Street Corona AS 48)		
MECORT	Taxoco	Texasio Calus FAO 4E		
FAEC-1886	Conomi	Conoco Syndustriz (R&O 150	Meets Specifications	
885C-088	Shell	Shell Corena AF 150 Syn		
MEC-#9#	ELMindustrial	ELBA Industrial Soy Yesk # 1		
34EC-098	Conoco	No Product Proposed		
	_	#	Acceptable - Qualified	Product is not a bio-based off; but it meets environmental
MEC-183	Cohomo	Conoce Scoterra Hydraulic C II 46	Anne or the second seco	resuistaenta.
MEC-180 MEC-180	Cohomo SLM in dustrial	Linder Company a Hydraum U i 44. El Mi Malatri A Hydraum Same Grade 45.		requisitaenta
MEC-140	SLM in dustrial	ELM Industrial Mydroulic Source Grade 45		
			Acceptable - Qualified	require acriz. Product data sheet down not have like SEK 46392F modorsmovent.
MEC-100 MEC-101	St. A4 in desertal	ELM Industrial Hydraulic Snow Grade 46 Chevrn n.576 Greaze 2	Acceptable - Qualified	Product data sheet does not have the SEK 46382F andorsement.
MEC-140	SLM in dustrial	ELM Industrial Mydroulic Source Grade 45		
MEC-100 MEC-101	St. A4 in desertal	ELM Industrial Hydraulic Snow Grade 46 Chevrn n.576 Greaze 2	Acceptable - Qualified	Product data sheet does not have the SEK 46382F andorsement.
MEC-100 MEC-101 MEC-1GI	ELM Industrial Charten Consequ	ELM Industrial Hydraulic Snew Grade 46 Chevro n.S.N. Grease 2 Cenoco Palytho Grease N. s. 2	Acceptable - Qualified	Product data sheet does not have the SEK 46382F andorsement.
NEC-181 NEC-181 NEC-162	ELM Industrial Citevien Consec Unident	ELM instantivit Hydroutic Snew Grade 46 Chevron Still Greace 2 Centoco Patytho Greate Na. 2 Unitselt 2007.77 DBL-55illione Faild No President Presented	Acceptable - Qualified	Product data sheet does not have the SEK 46382F andorsement.
MEC-101 MEC-101 MEC-101 MEC-102 MEC-102 MEC-104	ELAS Industrial Citevesa Consus Unidest Genome Consus	ELM instatrial Hydraulic Snew Grade 45 Chevron Sdi Greace 2 Canaco Palyteo Greate No. 2 Unition/1003.7/CBL-55illoone Faild	Acceptable - Qualified Acceptable - Qualified	Product data sheet does not have the SEK 46382F andorsement.
NAEC-181 NAEC-181 NAEC-101 RAEC-102 NAEC-184 NAEC-184	ELAS industrial Chevran Consec Unideck Genouse	ELM Instatrial Hydrautic Snew Grade 45 Chevnos Sali Greace 2 Cennoco Pe McDe Greace No. 2 Unitioe/1001.7/CRE-5/Silicone Field No Presaut Preparad Connoco Systom AW Hydrautic Field 32 Shell Tellus HD 32	Acceptable - Qualified Acceptable - Qualified Meets Specification	Product data sheet does not have the SEK 46382F andorsement.
MEC-181 MEC-161 MEC-162 MEC-162 MEC-164 MEC-184 MEC-184	ELAS in dumérial Chevren Consen Unide et dan case Cen cota Shell	ELM Industrial Hydraulic Snew Grade 45 Chevron 25ti Grease 2 Cenoco Palytec Grease No. 2 Unidash203.7/CR2-55illione Field No Preduct Pregence Conco Systom AW Hydraulic Field 32 Shell Tellus No 32 Concos Syndustrial R&O 100	Acceptable - Qualified Acceptable - Qualified	Product data sheet does not have the SEK 46382F andorsement.
MEC-180 MEC-181 MEC-101 MEC-102 MEC-102 MEC-102 MEC-184 MEC-185 MEC-105	ELM Industrial Chevran Consec Unifiech dancas Cencos Shell Cencos Shell	ELM Industrial Hydraulic Snew Grade 45 Chevron 55ti Greace 2 Cenoco Palyteo Greate N s. 2 Unidealto33.7/GRL-55filcone Fluid No Preduct Pregence Conoco System AW Hydraulic Field 32 Shell Tellus HD 52 Conoco Syndustrial Riko 100 Shell Conoco Syndustrial Riko 100 Shell Conoco Syndustrial Riko 100 Shell Conoco Syndustrial Riko 100	Acceptable - Qualified Acceptable - Qualified Meets Specification Rheats Specification	Product data sheet does not have the SEK 46382F andorsement.
AMEC-180 MEC-181 MEC-101 MEC-102 MEC-102 MEC-102 MEC-184 MEC-105 MEC-105 MEC-107	ELAS in dumérial Chevren Consen Unide et dan case Cen cota Shell	ELM Instatrial Hydraulic Snew Grade 45 Chevron 55ti Greace 2 Cenaco Palvinc Greace 50 No. 2 Linkiash 202. 7/ Del - Silicone Faild No Praduct Prepased Conaco System AW Hydraulic Field 32 Shell Tellar HD 52 Conaco Syndustrial SRO 500 Shell Gorens 49 P 100 (Formerly Shell Corena AP 100) Conaco Syndustrial Field Corens AP 200 Shell Corens Syndustrial SRO 500 Shell Corens 50 P 100 (Formerly Shell Corena AP 100) Conaco Syndustrial SWO 500	Acceptable - Qualified Acceptable - Qualified Meets Specification	Product data sheet does not have the SEK 46382F andorsement.
MEC-180 MEC-181 MEC-101 MEC-102 MEC-102 MEC-102 MEC-184 MEC-185 MEC-105	ELM Industrial Chevran Consen United R Cances Cenops Shell Cenose the II Cenose	ELM Industrial Hydraulic Snew Grade 45 Chevron 55ti Greace 2 Cenoco Palyteo Greate N s. 2 Unidealto33.7/GRL-55filcone Fluid No Preduct Pregence Conoco System AW Hydraulic Field 32 Shell Tellus HD 52 Conoco Syndustrial Riko 100 Shell Conoco Syndustrial Riko 100 Shell Conoco Syndustrial Riko 100 Shell Conoco Syndustrial Riko 100	Acceptable - Qualified Acceptable - Qualified Meets Specification Rheats Specification	Product data sheet does not have the SEK 46382F andorsement.
AMEC-1401 MMEC-1401 MMEC-1401 MMEC-1402 MMEC-1402 MMEC-1402 MMEC-1404 MMEC-1404 MMEC-1405 MMEC-1407 MMEC-1407 MMEC-1407	ELM Industrial Chevran Consuc Unitale it dancos Consoc Shell Consos Shell Consos Shell	ELM Instatrial Hydraulic Snew Grade 45 Chevnon 55ti Greace 2 Cennoco Pe McDe Greace No. 2 Linkiesh 2017 FORL-55illoone Faild No Praduct Prepared Connoco Syncon AW Hydraulic Field 32 Shell Tellus HD 32 Connoco Syndustrial RRG 100 Shell Connect SP 1100 (Formerly Shell Corena AP 100) Connoco Prevendrive 10W Shell Spinex S4 CX 100V (Formerly Shell Connex TC 10VV) Not Product Proposed	Acceptable - Qualified Acceptable - Qualified Meets Specification Rheats Specification	Product data sheet does not have the SEK 46382F andorsement.
NEC-100 NEC-101 MEC-102 MEC-102 MEC-102 MEC-102 MEC-105 MEC-105 MEC-105 MEC-105 MEC-105 MEC-107 MEC-107 MEC-108	ELM Industrial Chevran Consec Unite et denous Ownoos Shell Cenoss Shell Conocs Shell Conocs Shell	ELM Industrial Hydraulic Snew Grade 45 Chevron Sitti Greace 2 Cenoco Palytino Greate N e. 2 Unitae/1203.7/CBL-SSIlloone Faid No Predict Pregnate Conco Synthesis Hilloone Faid No Predict Pregnate Conco Synthesis Hill Sit Shell Fellus Hill 32 Shell Fellus Hill 32 Concor Synthesis Hill Sit 300 Shell Corene Sit PLOG (Formerly Shell Corena AP 100) Concor Presentive 10W Shell Synthes Sit CX 10W (Formerly Shell Donax TC 10W) No Predict Proposed Shell AeroShell Greate 7	Acceptable - Qualified Acceptable - Qualified Meets Specification Meets Specification Meets Specification	Product data sheet does not have the SEK 46382F andorsement.
NEC-160 NEC-161 NEC-101 NEC-102 NEC-102 NEC-164 NEC-164 NEC-165 NEC-105 NEC-105 NEC-106 NEC-106 NEC-106 NEC-106 NEC-166	ELM Industrial Chevran Consec Unities it dances Conocs Shell Conocs Shell Conocs Shell Conocs Shell Conocs Shell	ELM Instatrial Hydraulic Snew Grade 45 Chevron 55ti Greace 2 Cenoco Palyteo Greate N s. 2 Linkselto33.7YG8L-55filoone Flaid No Presiat Trespecial Conneco System AW Hydraulic Field 32 Shell Tellus HD 52 Conneco Syndustrial Riko 100 Shell Conneco System F 9 100 (Formerly Shell Corean AP 100) Conneco Swaverdrive 1004 Shell States AP 4 CM 1004 (Fornerly Shell Corean AP 100) Hell Preduct Proposed Shell Area Shell States 7 Coreace Exhell Faces 7 Coreace Shell States 7 Coreace Shell States 7 Coreace Shell States 7 Coreace Shell States 7	Acceptable - Qualified Acceptable - Qualified Meets Specification Rheats Specification	Product data sheet does not have the SEK 46382F andorsement.
NEC-140 NEC-181 MEC-102 MEC-102 MEC-102 MEC-164 MEC-184 MEC-185 MEC-105 MEC-105 MEC-105 MEC-105 MEC-106 MEC-106 MEC-106 MEC-106 MEC-106	ELM Industrial Chevran Consean Unide et dancas Ownoos Shell Concess Shell Concess Shell Concess Shell Concess Shell Shell Concess Shell	ELM Industrial Hydraulic Snew Grade 45 Chevron SSI Grease 2 Cenoco Palytino Grease N e . 2 Unidash 203.7/CBI-55ill cone Faild No Preduct Pregence Conco Synous Not Hydraulic Field 32 Shell Tellus ND 32 Cenoco Synous AN Hydraulic Field 32 Shell Tellus ND 32 Cenoco Synous AN Hydraulic Field 32 Shell Tellus ND 13 Cenoco Severative 100 Shell Corena S4 P 100 (Formerly Shell Corena AP 100) Conco Severative 100 Shell Sylvac S4 CX 1004 (Formerly Shell Corena AP 100) No Product Proposed Shell Aeromosiali Grease 7 Coreno Several Grease 7 Coreno Several Shell Sylvace 8	Acceptable - Casaffled Acceptable - Qualified Meets Spacification Meets Spacification Meets Spacification Meets Spacification	Product data sheet does not have the GEK 46382F andorsement. Product data sheet does not have the GEK 46382F andorsement.
NEC-100 MEC-101 MEC-102 MEC-102 MEC-102 MEC-102 MEC-105 MEC-105 MEC-105 MEC-107 MEC-107 MEC-107 MEC-108 MEC-108 MEC-108 MEC-108 MEC-108 MEC-108 MEC-111	ELM Industrial Chevran Consec Unities R dances Ownoos Shell Consess Shell Consec Shell Consess Shell Consess Shell Consess Shell Consess Shell Consess	ELM Industrial Hydraulic Snew Grade 45 Chevron Sitti Grease 2 Cenoco Palytino Grease No. 2 Linkash 200.7/ CRL-SSIII cone Faid No Preduct Pregness Conco Synthesis Hill State Conco Synthustrial RRC 100 Shell Tellus NO 32 Conco Synthustrial RRC 100 Shell Corens Sit Public Flow Shell Corens Sit Public Flow Shell Spines Sit CX 100/ (Formerly Shell Corens AP 100) Ecoco Powerdrive 10W Shell Synthesis Crease Sit 100/ (Formerly Shell Corens AP 100/) No Preduct Proposed Shell Aeroshell Grease 7 Cornoco Kenda CT-1 IP Mocor 61 20W -40 Shell Fersiols Shell Shells Shell Shells	Acceptable - Qualified Acceptable - Qualified Meets Specification Meets Specification Meets Specification	Product data sheet does not have the SEK 46382F andorsement. Product data sheet does not have the GEK 46382F andorsement. Product data sheet does not have the GEK 46382F andorsement.
NEC-140 NEC-181 MEC-102 MEC-102 MEC-102 MEC-164 MEC-184 MEC-185 MEC-105 MEC-105 MEC-105 MEC-105 MEC-106 MEC-106 MEC-106 MEC-106 MEC-106	ELM Industrial Chevran Consean Unide et dancas Ownoos Shell Concess Shell Concess Shell Concess Shell Concess Shell Shell Concess Shell	ELM Industrial Hydraulic Snew Grade 45 Chevron SSI Grease 2 Cenoco Palytino Grease N e . 2 Unidash 203.7/CBI-55ill cone Faild No Preduct Pregence Conco Synous Not Hydraulic Field 32 Shell Tellus ND 32 Cenoco Synous AN Hydraulic Field 32 Shell Tellus ND 32 Cenoco Synous AN Hydraulic Field 32 Shell Tellus ND 13 Cenoco Severative 100 Shell Corena S4 P 100 (Formerly Shell Corena AP 100) Conco Severative 100 Shell Sylvac S4 CX 1004 (Formerly Shell Corena AP 100) No Product Proposed Shell Aeromosiali Grease 7 Coreno Several Grease 7 Coreno Several Shell Sylvace 8	Acceptable - Casaffled Acceptable - Qualified Meets Spacification Meets Spacification Meets Spacification Meets Spacification	Product data sheet does not have the GEK 46382F andorsement. Product data sheet does not have the GEK 46382F andorsement.
NEC-140 NEC-101 MEC-102 MEC-102 MEC-102 MEC-164 MEC-164 MEC-165 MEC-105 MEC-105 MEC-105 MEC-106 MEC-106 MEC-106 MEC-106 MEC-106 MEC-111 MEC-111	ELM Industrial Chevran Consean Unide et denome Connocu Shell Connocu	ELM Industrial Hydraulic Snew Grade 45 Chevron SRI Greace 2 Cenoco Pelytho Greace No. 2 Unidaelt 2003.7/CBEL-55ill cone Falid No Preduct Prepased Contoo System AW Hydraulic Field 32 Shell Tellus HD 32 Contoo Syndustrial RRO 100 Shell Corens SP 100 (Formerly Shell Corena AP 100) Contoo Shewardhive 100W Shell Sorewidthe 100W Shell Acronoch Service Shell Corena AP 100 (Formerly Shell Corena AP 100) No Preduct Proposed Shell Acronoch Greace 7 Cornoco Service Shell Sovered Shell Acronoch Shell Soresse 7 Cornoco Service Shell Sovered Connoco Serv	Acceptable - Qualified Acceptable - Qualified Meets Specification Meets Specification Meets Specification Meets Specification Acceptable - Qualified	Product data sheet does not have the GEK 46362F andorsement. Product data sheet does not have the GEK 46362F andorsement. Product does not meet the viscosity specification. Product does not the viscosity specification. Vi has not been visidated.
NEC-100 MEC-101 MEC-102 MEC-102 MEC-102 MEC-102 MEC-105 MEC-105 MEC-105 MEC-107 MEC-107 MEC-107 MEC-108 MEC-108 MEC-108 MEC-108 MEC-108 MEC-108 MEC-111	ELM Industrial Chevran Consec Unities R dances Ownoos Shell Consess Shell Consec Shell Consess Shell Consess Shell Consess Shell Consess Shell Consess	ELM Industrial Hydraulic Snew Grade 45 Chevron Sitti Grease 2 Cenoco Palytino Grease No. 2 Linkash 200.7/ CRL-SSIII cone Faid No Preduct Pregness Conco Synthesis Hill State Conco Synthustrial RRC 100 Shell Tellus NO 32 Conco Synthustrial RRC 100 Shell Corens Sit Public Flow Shell Corens Sit Public Flow Shell Spines Sit CX 100/ (Formerly Shell Corens AP 100) Ecoco Powerdrive 10W Shell Synthesis Crease Sit 100/ (Formerly Shell Corens AP 100/) No Preduct Proposed Shell Aeroshell Grease 7 Cornoco Kenda CT-1 IP Mocor 61 20W -40 Shell Fersiols Shell Shells Shell Shells	Acceptable - Casaffled Acceptable - Qualified Meets Spacification Meets Spacification Meets Spacification Meets Spacification	Product data sheet does not have the SEK 46382F andorsement. Product data sheet does not have the GEK 46382F andorsement. Product does not meet the viscosity specification. Product does not meet the viscosity specification. Vi has not been varietated. Product does not the viscosity specification. Vi has not been varietated.
NEC-140 NEC-101 MEC-102 MEC-102 MEC-102 MEC-164 MEC-164 MEC-165 MEC-105 MEC-105 MEC-105 MEC-106 MEC-106 MEC-106 MEC-106 MEC-106 MEC-111 MEC-111	ELM Industrial Chevran Consean Unide et denome Connocu Shell Connocu	ELM Industrial Hydraulic Snew Grade 45 Chevron Sitti Greace 2 Cenoco Palytino Greate N e. 2 Linkash 200,77 CBL-55 Silicone Faild No Preduct Pregness Conneco Syndustrial RRC 100 Shelf Tellus I/D 52 Conneco Syndustrial RRC 100 Shelf Corena S4P 100 (Formerly Shell Corena AP 100) Conneco Severative 100 ¹ Shell Spirox S4 CX 1004 (Formerly Shell Corena AP 100) No Preduct Proposed Shell Architect Proposed Shell Architect Greace 7 Corneco Sevidal CT-1 IP Mocor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Notor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Shell	Acceptable - Qualified Acceptable - Qualified Meets Specification Meets Specification Meets Specification Meets Specification Acceptable - Qualified	Product data sheet does not have the GEK 46362F andorsement. Product data sheet does not have the GEK 46362F andorsement. Product does not meet the viscosity specification. Product does not the viscosity specification. Vi has not been visidated.
ANEC-140 MEC-141 MEC-141 MEC-142 MEC-142 MEC-144 MEC-144 MEC-144 MEC-145 MEC-147 MEC-147 MEC-147 MEC-148 MEC-148 MEC-148 MEC-148 MEC-148 MEC-141 MEC-111 MEC-111 MEC-112 MEC-112	ELM Industrial Chevran Consec Unitée R dancos Cencos Sheil Cencos Sheil Conces Sheil Conces Sheil Conces Lubripiste Cunoss Reyal Purple	ELM Industrial Hydraulic Snew Grade 45 Chevro n.Scii Greace 2 Cenoco Patytos Greace N • . 2 Unitaelto03.7/CBL-Sciilloone Faifd No Preduct Pregnesid Conoco Specon AW Hydraulic Field 32 Shell Tellus NO 52 Conoco Specon AW Hydraulic Field 32 Shell Tellus NO 52 Conoco Specon AW Hydraulic Field 32 Shell Tellus NO 52 Conoco Specon AW Hydraulic Field Corenta AP 100 Conoco Severative 10W Shell Septes AC 10W (Formerly Shell Corenta AP 100) Holl Specos AC 10W (Formerly Shell Donax TC 10W) No Preduct Proposed Shell AeroShel Greace 7 Cornoco Senda Crt. 14 P Mocor 481 20W -40 Shell AeroShell Special 9 Conoco Senda Crt. 14 P Mocor 481 20W -40 Shell Formide Shell 10W46 Conoco Senda Crt. 14 P Mocor 481 20W -40 Shell Formide Shell 10W46 Conoco Senda No. 2 Greace Conoco Senda Machinery Greace No. 2 Lide: plate 750 Senda No. 2 Greace Conoco Senda Machinery Greace No. 2 Rayal Parple 68	Acceptable - Qualified Acceptable - Qualified Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification	Product data sheet does not have the SEK 46302F andorsement. Froduct data sheet does not have the SEK 46302F andorsement. Product does not meet the viscosity specification. VI has not been validated. Product does not the viscosity specification. VI has not been validated. Product does not the viscosity specification. VI has not been validated.
NEC-140 MEC-151 MEC-152 MEC-152 MEC-152 MEC-154 MEC-155 MEC-155 MEC-157 MEC-157 MEC-157 MEC-156 MEC-156 MEC-156 MEC-156 MEC-156 MEC-156 MEC-156 MEC-151 MEC-151 MEC-151	ELM Industrial Chevran Consec Unities R denous Connocs Shell Connocs Connocs Shell Connocs Connocs Shell Connocs	ELM Industrial Hydraulic Snew Grade 45 Chevron Sitti Greace 2 Cenoco Palytino Greate N e. 2 Linkash 200,77 CBL-55 Silicone Faild No Preduct Pregness Conneco Syndustrial RRC 100 Shelf Tellus I/D 52 Conneco Syndustrial RRC 100 Shelf Corena S4P 100 (Formerly Shell Corena AP 100) Conneco Severative 100 ¹ Shell Spirox S4 CX 1004 (Formerly Shell Corena AP 100) No Preduct Proposed Shell Architect Proposed Shell Architect Greace 7 Corneco Sevidal CT-1 IP Mocor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Notor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Conneco Sevidal CT-1 IP Recor CB 1004-60 Shell Formats Shell Solvege Shell	Acceptable - Qualified Acceptable - Qualified Meets Specification Meets Specification Meets Specification Meets Specification Acceptable - Qualified	Product data sheet does not have the SEK 46382F andorsement. Product data sheet does not have the GEK 46382F andorsement. Product does not meet the viscosity specification. Product does not meet the viscosity specification. Vi has not been varietated. Product does not the viscosity specification. Vi has not been varietated.
ANEC-140 MEC-141 MEC-141 MEC-142 MEC-142 MEC-144 MEC-144 MEC-144 MEC-145 MEC-147 MEC-147 MEC-147 MEC-148 MEC-148 MEC-148 MEC-148 MEC-148 MEC-141 MEC-111 MEC-111 MEC-112 MEC-112	ELM Industrial Chevran Consuc Unitive it dancos Consuc Shell Consuc	ELM Industrial Hydraulic Snew Grade 45 Chevro n.Scii Greace 2 Cenoco Patytos Greace N • . 2 Unitaelto03.7/CBL-Sciilloone Faifd No Preduct Pregnesid Conoco Specon AW Hydraulic Field 32 Shell Tellus NO 52 Conoco Specon AW Hydraulic Field 32 Shell Tellus NO 52 Conoco Specon AW Hydraulic Field 32 Shell Tellus NO 52 Conoco Specon AW Hydraulic Field Corenta AP 100 Conoco Severative 10W Shell Septes AC 10W (Formerly Shell Corenta AP 100) Holl Specos AC 10W (Formerly Shell Donax TC 10W) No Preduct Proposed Shell AeroShel Greace 7 Cornoco Senda Crt. 14 P Mocor 481 20W -40 Shell AeroShell Special 9 Conoco Senda Crt. 14 P Mocor 481 20W -40 Shell Formide Shell 10W46 Conoco Senda Crt. 14 P Mocor 481 20W -40 Shell Formide Shell 10W46 Conoco Senda No. 2 Greace Conoco Senda Machinery Greace No. 2 Lide: plate 750 Senda No. 2 Greace Conoco Senda Machinery Greace No. 2 Rayal Parple 68	Acceptable - Qualified Acceptable - Qualified Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification	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 meet the viscosity specification. Product does not meet the viscosity specification. VI has not been validated. Product does not meet the viscosity specification and these net have a synthetic base of, so specified. Product does not meet the viscosity specification or the NiGI grade
MEC-140 MEC-101 MEC-102 MEC-102 MEC-102 MEC-154 MEC-154 MEC-155 MEC-105 MEC-105 MEC-106 MEC-106 MEC-106 MEC-106 MEC-111 MEC-111 MEC-112 MEC-112 MEC-112 MEC-112 MEC-112 MEC-112 MEC-113	ELM Industrial Chevran Consean Unide R dan case Consocs Shell Consocs Shell Consocs Shell Cances Control Shell Cances Shell Conces Shell Shell Conces Shell Shell Conces Shell	ELM Industrial Hydrautic Snew Grade 45 Chevron 1581 Grease 2 Cenoco Palytino Grease No. 2 Linkash 200, 7V DRL-SSIII one Flaid No Praduct Progresse Conoco Syndustrial RRO 100 Shell Tellus No. 32 Conoco Syndustrial RRO 100 Shell Corens SAP 200 (Formerly Shell Corens AP 100) Conoco Syndustrial RRO 100 Shell Solvace SA CX 100% (Formerly Shell Corens AP 100) Shell Solvace SA CX 100% (Formerly Shell Corens AP 100) Shell AeroShell Grease 7 Coreno Senda CT-1 IP Mocor SI 1074-50 Shell Permits Shell Solvet Conoco Senda Shell No. 2 Grease Conoco Senda Matchinery Grease No. 2 Lubripiete 750 Series No. 2 Grease Ceneco Feed Matchinery Grease No. 2 Rayal Purple SE Coneco Tellon Grease 228149- 2 Shell Albids Grease SDS 1	Acceptable - Qualified Acceptable - Qualified Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification Meets Specification	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 meet the viscosity specification. Product does not meet the viscosity specification. VI has not been validated. Product does not meet the viscosity specification and these net have a synthetic base of, so specified. Product does not meet the viscosity specification or the NiGI grade
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This Specification to be used for all Mid-knowless Energy metalists

Altechment 2 - MalAmerican Energy Lube CE Technical Specification Branded Lubricania

MEC-130	Shell	Shell Tivela S-880	This product is no longer svelights from Smill (Alifed) as	;
			of13/2e/##12.	
WEC-131	Fuchs	Fuchs Gereign G-SW 2		
MEC-131	Corraco	Kethoduct Prepased		
MEC-391	Siveli	Shali Cemin Greasa HTS 2	and the same of	
MEC-132	Centoce	Connoco Syncon Turbine OS 32	Meets Specification	
MEC-132	She ž	Sheli Turba SG 32		
MEC-334	Lubripiete	Lubriplate PGO 530		
14EC-114	Ceneso	No Product Proposed		
MEC-135	Sheli	Olszantinued - Shali Doljum Grazen BRG 2		
MEC-135	OpenSpec	Open Spec as of 1/15/2012		
MEC-135	Dow Corning	Distantinued - Dow Corning Malykote G-0101		
MSC-135	Canore	No Product Proposed		
MEC-13#	None	None		
MEC-237	Canass	No Product Proposed		
MEC-137	Yearn-Fac	Tern-Par #2557 industrial Grasse		
MET-138	Shell	Asseshell Turbine Oil 500 (Corrected to Shell 500 Ester Oil on 7/7/11)		
MEC-128	Coneco	Na FraductFragasad		
MED-239	Con940	Cenoco Synéustrial R&C 32	Acceptable - Cusiffied	Product does not meet VI specification (130 specified vs 84).
MEC-139	Chewren	DISCONTRALED -Chevran Syntholobe Compressor Oil 32		
MEC-139	Lubripiete	Applicate SYMAC-液	Acceptable - Catalified	Pour Point and Flash Point are both slightly off specification.
MEC-140	Sheli	(Arided Albida EMS-2 en 7/7/51)		
MEC-140	Mobili	Madiikh shci eb		
MEC-140	Consum	No Product Propered		
MEC-141	KluberStraburage	XidderStradurass HBU & EP		
Mec-141	Canaca	No Product Prepased		
MEC-142	DowCarning	Dow Molykote 89L		
MEC-142	Canaca	No Product Proposed		
MEC-143	Fuchs	Fuchs Renailt LSTO EP 0		
MEC-143	Coneco	Ne Preduct Prepased		
Mec.146	Cooper Power Systems	CooperEndrotempFR3		
MEC-1.44	Conaco	Ne Product Proposed		
AMEC-145	Dose Coming	Dere Matykote 4448		
MEC-3A6	Supreste (ILC)	Fyrequel Plus		

CONFIDENTIAL EXHIBIT B

THIS EXHIBIT IS CONFIDENTIAL IN ITS ENTIRETY AND WILL BE PROVIDED IN ACCORDANCE WITH WAC 480-07-160.

CONFIDENTIAL EXHIBIT B.1

THIS EXHIBIT IS CONFIDENTIAL IN ITS ENTIRETY AND WILL BE PROVIDED IN ACCORDANCE WITH WAC 480-07-160.

CONFIDENTIAL EXHIBIT B.2

THIS EXHIBIT IS CONFIDENTIAL IN ITS ENTIRETY AND WILL BE PROVIDED IN ACCORDANCE WITH WAC 480-07-160.

PacifiCorp Procurement 525 NE Multnomah Street, Suite 949 Portland, Oregon 97232

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Purchase Order

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When the second	Delivery Date Inco Terms Description	01/01/2011 N/A
STATE OF THE PERSON NAMED IN	inco Terms (Part X)	WA

Show the Punchase Order Number on all packages, involces bills of lading and correspondence. Send involces to Accounts Payable Department. Notify buyer immediately: (1) if unable to ship or deliver on dates specified below or (2) when description is incorrect or superceded.

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This Wo	This Work Release is entered into by and between ("Contractor") and PACIFICORP ("Company").											
Rateron	Reference Exhibit A, Scope of Work or the applicable Scope of Work referenced herein for definition of work to be performed.											
Referen	co Exhibit C of the General Services	Contract or the ap	plable plan	cchockulo referenced herei:	to picing	applicable to t	is Relegge.					
To facilit	To facilitate prompt psyment, ensure all involces list the Purchase Order Work Release Number and are addressed and/or amolied to:											
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PacifiCorp Procurement 825 NE Multnomah Street, Suite 940 Portland, Oragon 97232

Purchase Order

- 05/14/2009

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				a ver y

FORM OF PURCHASE ORDER MIDAMERICAN ENERGY COMPANY

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

SOUR CITY, A SHOZ PO BOX 3008

PURCHARIE ONDER NO.

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

MIDANERICAN ENERGY COMPANY URBANDALE BUSINESS CENTER

ANY COMB, D. 12345-4567

PO BOX 4557

SUPPLY COMPANY INC

N. DATEOFORMA N. DATEOFANDEM 4200 NW (MBANDALE DR IMBANDALE, IA 50222, 7016

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DAM: 30.JAN-12.16.37.07

MARION STANMOOD

Exhibit C.S

FORM OF PURCHASE ORDER NV ENERGY



PURCHASE ORDER

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

Send Involce Te:

NV Bocogy; Associate Payable

PO BOX 10100 KENO NV 89520-0024

Purchase Order : #014#SLSR00008

Revision :

Refrase: 00008

Date Printed

: 11/20/13

Page Number : 1

Counterparty:

ATTIN SALES

PO BOX 7900

SAN FRANCISCO CA 94130

Picasa Direct Engaldes to: LISA TOY

THE : FURCHASING AGENT I

Dept : Procuencet

Phone: (702) 402-5415

Pex 1 (702)402-0626

boy@aveousy.com

*** BLANKET ORDER RELEASE ***

Payment Terms v

Days Net 30 Days ERS: N Bef Contract:

Primary Ship Ter

STERRA PACIFIC POWER COMPANY

Deliver 62Cam - 1pm, M-Posty

Valory Pawer Station I-80, Signaluman Exil 212 Nerth Veimy NV 89438 ATTN:Receiving

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BEST WAY - STEPFERS OF DOX

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Carrier Maure :

FOR Point :

DESTINATION

Instructions & Nates

This Blacket Prorchase Order is written as an invoke and Ponting reference. Pierse Rabitation PO sad RELEASE

on all invoices.

PLEASE NOTE: MAY CONTAIN MULTIPLE

'SHIP TO' ALLDRUSSES

Purchasing P&C: Lisa Toy 702,402,5415

Lbse 0001

Catalog ID BA 0000133189 Unit Price

Extension

TAXABLE

Qtys

Delivery Data: 11/22/13

Descriptions



PURCHASE ORDER

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

Send Invoice To: NV Except, Accords Payable PO BOX 10100 #ENO NA 9920-8004

Pareisen Order : SOLASSISRIONN

Revidos : Date Printed Release: 000#8

Page Number

: 11/22/13 : 2

Mh/Vendor :

Medd

97000-030/915GBNWP

Parchast Order Total Amount

TOTAL TRUS FO:

* * * End of Purchase Order * * *

Consideranty's written acceptance, delivery of pooks or survices, or performance of this Purchase Order creates a coginact. NV Recogg's Standard Purchase Order Terms and Conditions apply.

This Parchase Order any be used to scoop! Some! offers exharited in response to a Respect for Proposal (RPF), as to find bilaterally emerged commute. In such cases, the faces and conditions of the RFP or the Cardenia apply and biles principalismon over NV British Street and Pandines Order Terms and Constitution.

The parties agree that this Purchase Order shall be governed by the Transa and Candilloss loosed at:

http://www.nvenergy.com/company/doing/mainess/mapdigms/maint.com which are figurearcied bords by reference. Seller represents by its execution hereof or performance Persuader that it has send and a green to be bound by such teams and conditions.

LISA TOY Designated Server

Emidit C.4

FORM OF PURCHASE ORDER
CALENERGY OPERATING CORPORATION



PLEASE ENTER THIS PLICOASE CROSS BLABET TO THE ACCOMPANYING TERMS AND COMMITTONS.

i k THIS PO MISSIERS MAST APPEAR ON ALL. INVOICES, PACKING LISTS, CARTONIS AND CONNESSYONDENCE RELATED TO THIS CRUBER.

(38138) Mr. Bring C BMILWE DESTINATION 9999-555 (555) (555) 555-5555 MET 30 DAYS AMITOG SO 0 0 0 6 6

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 TEM NUMBER(S) TO AID IN PROCESSING OF PAYMENTS. FAILURE TO INCLUDE THESE NUMBERS WILL RESULT IN THE RETURN OF INVOICES FOR CORRECTION BY THE COMPACTOR OR VENIXOR WITHOUT COST TO CALENERSY OPERATING

VENDOR OR CONTRACTOR TO PROVIDE AN ALL INCLUSIVE BILLING 80 AS TO MINIMIZE THE POSSIBILITY OF RESIDUAL INVOICES BEING RECEIVED BY CALENERY 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 AMY PART THEREOF, VENDOR AGREES TO CONDUCT THIS TRANSACTION VIA ELECTRONIC MEANS AND TO BE BOUND BY THE ACCOMPANYING TERMS AND CONDITIONS.

AUTHORIZED BIGNATURE 26 8 DESCRIPTION OF GOODS OR SERVICES

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 \ \ 5

WASHINGTON AFFILIATED INTEREST FILING

VERIFICATION

VERIFICATION

I, Jeffery B. Erb, am Assistant General Counsel of Pacific Power and am authorized to make this verification on its behalf. Based on my personal knowledge about the attached Master Materials Supply Contract, I verify that the Master Materials Supply Contract is a true and accurate copy of the original.

I declare upon the penalty of perjury, that the foregoing is true and correct.

Executed on SEVIEWBER 10 2015 at Portland, Oregon.

Jeffery B. Erb

Assistant General Counsel

Pacific Power

Subscribed and sworn to me on this 10 day of September, 2015.

Notary Public for Oregon

My Commission expires: November 12, 2018

